



Ensolum

October 04, 2024

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

**Project Name - KMG - Anderson Adolph Facility & Project Number - 09A1417745  
Unit 1 Wellhead**

Attached are your analytical results for KMG - Anderson Adolph Facility & Unit 1 Wellhead received by Origins Laboratory August 29, 2024. This project is associated with Origins project number Y408831-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory  
303.433.1322  
projectmanager@originslab.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

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

Jeremy Espinoza  
 Project Number: 09A1417745  
 Project: KMG - Anderson Adolph Facility & Unit 1 Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DL01-N01@3'	Y408831-01	Soil	August 29, 2024 10:33	08/29/2024 16:21
DL01-E01@3'	Y408831-02	Soil	August 29, 2024 10:38	08/29/2024 16:21
DL01-S01@3'	Y408831-03	Soil	August 29, 2024 10:58	08/29/2024 16:21
DL01-W01@3'	Y408831-04	Soil	August 29, 2024 10:52	08/29/2024 16:21
DL01-B01@6'	Y408831-05	Soil	August 29, 2024 10:46	08/29/2024 16:21
SEP01IN-N01@3'	Y408831-06	Soil	August 29, 2024 12:00	08/29/2024 16:21
SEP01IN-E01@3'	Y408831-07	Soil	August 29, 2024 11:45	08/29/2024 16:21
SEP01IN-S01@3'	Y408831-08	Soil	August 29, 2024 11:58	08/29/2024 16:21
SEP01IN-W01@3'	Y408831-09	Soil	August 29, 2024 12:05	08/29/2024 16:21
SEP01IN-B01@6'	Y408831-10	Soil	August 29, 2024 11:51	08/29/2024 16:21
SEP01OUT-N01@3'	Y408831-11	Soil	August 29, 2024 11:21	08/29/2024 16:21
SEP01OUT-E01@3'	Y408831-12	Soil	August 29, 2024 11:16	08/29/2024 16:21
SEP01OUT-S01@3'	Y408831-13	Soil	August 29, 2024 11:29	08/29/2024 16:21
SEP01OUT-W01@3'	Y408831-14	Soil	August 29, 2024 11:33	08/29/2024 16:21

Origins Laboratory



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Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A1417745  
Project: KMG - Anderson Adolph Facility & Unit 1  
Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP01OUT-B01@6'	Y408831-15	Soil	August 29, 2024 11:09	08/29/2024 16:21

Origins Laboratory



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Jeremy Espinoza  
Project Number: 09A1417745  
Project: KMG - Anderson Adolph Facility & Unit 1 Wellhead

## ORIGINS

LABORATORY INC

ORIGINS WORK ORDER #

**1408831**

Page 1 of 2

Client: ORISUM  
Address: 1049 W 44th Ave. Ste. 100  
Wheat Ridge, CO 80033  
Telephone Number:  
Email Address: KMG-Team

Project Manager: Jeremy Espinoza  
Project Name: Anderson Adolph Facility & Unit 1 Wellhead  
Project Number: 09A1417745  
Collected By: JE  
Invoice/Billing Info: Impacted/OCY  
Key:  W=Water  
 GW=Groundwater  
 SW=Surface Water  
 WW=Waste Water  
 L=Liquid

S=Soil | SO=Soilid | 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
							PAHs	PH	As, Ba, Cd, Pb, Ni, Cu, Zn	BTEX	TMBs	TPH (GPD)	Se				
1	DLOI-NOIE3'	8/29/24	1033	3	S	UNP	X	X	X	X	X	X	X	X	X		
2	DLOI-EOIE3'		1038														
3	DLOI-SOIE3'		1058														
4	DLOI-WOIE3'		1052														
5	DLOI-BOIE3'		1046														
6	SEPOIIN-NOIE3'		1210				X	X	X	X	X	X	X	X			
7	SEPOIIN-EOIE3'		1145														
8	SEPOIIN-SOIE3'		1158														
9	SEPOIIN-WOIE3'		1205														
10	SEPOIIN-BOIE3'		1151														

Relinquished By: [Signature] Date: 8/29/24 Time: 1621  
Received By: [Signature] Date: 9/24/24 Time: 1021  
Temp Received:  Received On Ice?  Yes  No  
Turnaround Time:  SAME DAY  24 Hr  48 Hr  72 Hr  
Standard

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

Origins Laboratory  
[Signature]

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

Jeremy Espinoza  
Project Number: 09A1417745  
Project: KMG - Anderson Adolph Facility & Unit 1 Wellhead

# ORIGINS

LABORATORY INC

ORIGINS WORK ORDER #

**4408831**

Page 2 of 2

Client: ENSOLUM

Project Manager: JEREMY ESPINOZA

Key:

Address: 11049 W 44th Ave Ste 100

Project Name: Anderson Adolph Facility # Anderson Wellhead

Telephone Number: Wheat Ridge, CO 80033

Project Number: 09A1417745

Email Address: KMG-TEAM

Collected By: JE

SW=Surface Water  
WW=Waste Water  
L=Liquid

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

Invoice/Billing Info: Imported Tax

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis					Comments
							PAHs	PH	AS, BA	Cd, Pb	Mn, Cr, Cu	
1	SEP100T-NUGES	8/29/24	1121	3	S	UNP	X	X	X	X	X	
2	SEP100T-EVES		1116	1			X	X	X	X	X	
3	SEP100T-SUGES		1129	1			X	X	X	X	X	
4	SEP100T-NUGES		1133	1			X	X	X	X	X	
5	SEP100T-BUGES		1100	1			X	X	X	X	X	
6												
7												
8												
9												
10												

Relinquished By: [Signature] Date: 8/29/24 Time: 1621

Received By: [Signature] Date: 8/29/24 Time: 1021

Turnaround Time:  SAME DAY  24 Hr  48 Hr  72 Hr

Temp Received: 5 Received On Ice?  Yes  No

1725 Elk Place Denver, Co. 80211 | # 303.443.1322 | originslab.com

For Lab Sample Receiving Only:

Origins Laboratory  
[Signature]

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

Jeremy Espinoza  
Project Number: 09A1417745  
Project: KMG - Anderson Adolph Facility & Unit 1 Wellhead

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4408831

Client: Ensolum

Client Project ID: Anderson Adolph

Checklist Completed by: EAD

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

Date/time completed: 8/29/24

Airbill #: N/A

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

Cooler Number/Temperature: 115 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: TC05

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) EAD

Date/Time Reviewed 8/29/24

Origins Laboratory

*J. Bynon*

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 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417745  
 Project: KMG - Anderson Adolph Facility & Unit 1 Wellhead

**DL01-N01@3'**

**8/29/2024 10:33:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408831-01 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4H2905	08/29/2024	08/29/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	94.3 %	50-150	"	"	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4H2927	08/29/2024	08/30/2024	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	"	"	"	"	"
Surrogate: Toluene-d8	115 %	70-130	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	111 %	70-130	"	"	"	"	"

**PAH by EPA 8270E**

Origins Laboratory



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DL01-N01@3'

8/29/2024 10:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
 Y408831-01 (Soil)

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4H2945	08/29/2024	08/29/2024	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
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	97.3 %		60-130			"	"	"	
Surrogate: Anthracene-d10	92.9 %		60-130			"	"	"	
Surrogate: Pyrene-d10	103 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	106 %		60-130			"	"	"	

Origins Laboratory



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Project: KMG - Anderson Adolph Facility & Unit 1 Wellhead

**DL01-N01@3'**

**8/29/2024 10:33:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408831-01 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	1.64		0.266	mg/kg	10	B4H2948	08/29/2024	08/30/2024	
Barium	76.1		9.18	"	"	"	"	"	
Cadmium	0.174		0.0918	"	"	"	"	"	
Lead	6.08		0.918	"	"	"	"	"	
Nickel	6.00		0.918	"	"	"	"	"	
Selenium	ND		0.239	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.190	0.476	mg/kg dry	1	2676789	09/27/2024	10/02/2024	U
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Origins Laboratory



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 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417745  
 Project: KMG - Anderson Adolph Facility & Unit 1 Wellhead

**DL01-E01@3'**

**8/29/2024 10:38:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408831-02 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4H2905	08/29/2024	08/30/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	94.5 %	50-150	"	"	"	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4H2927	08/29/2024	08/30/2024	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	113 %	70-130	"	"	"	"	"	"
Surrogate: Toluene-d8	114 %	70-130	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	114 %	70-130	"	"	"	"	"	"

**PAH by EPA 8270E**

Origins Laboratory



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Jeremy Espinoza  
 Project Number: 09A1417745  
 Project: KMG - Anderson Adolph Facility & Unit 1 Wellhead

DL01-E01@3'

8/29/2024 10:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
 Y408831-02 (Soil)

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4H2945	08/29/2024	08/29/2024	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
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	97.5 %		60-130			"	"	"	
Surrogate: Anthracene-d10	91.4 %		60-130			"	"	"	
Surrogate: Pyrene-d10	103 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	106 %		60-130			"	"	"	

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 Project Number: 09A1417745  
 Project: KMG - Anderson Adolph Facility & Unit 1 Wellhead

**DL01-E01@3'**

**8/29/2024 10:38:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408831-02 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	2.23		0.259	mg/kg	10	B4H2948	08/29/2024	08/30/2024	
Barium	106		8.94	"	"	"	"	"	
Cadmium	0.155		0.0894	"	"	"	"	"	
Lead	8.62		0.894	"	"	"	"	"	
Nickel	7.19		0.894	"	"	"	"	"	
Selenium	ND		0.232	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.171	0.427	mg/kg dry	1	2676789	09/27/2024	10/02/2024	U
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Origins Laboratory



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Jeremy Espinoza  
Project Number: 09A1417745  
Project: KMG - Anderson Adolph Facility & Unit 1 Wellhead

**DL01-S01@3'**

**8/29/2024 10:58:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
Y408831-03 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4H2905	08/29/2024	08/30/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	92.2 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4H2927	08/29/2024	08/30/2024	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	111 %		70-130			"	"	"	
Surrogate: Toluene-d8	116 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	113 %		70-130			"	"	"	

**PAH by EPA 8270E**

Origins Laboratory



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

Jeremy Espinoza  
 Project Number: 09A1417745  
 Project: KMG - Anderson Adolph Facility & Unit 1 Wellhead

DL01-S01@3'

8/29/2024 10:58:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
 Y408831-03 (Soil)

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4H2945	08/29/2024	08/29/2024	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
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	96.7 %		60-130			"	"	"	
Surrogate: Anthracene-d10	93.2 %		60-130			"	"	"	
Surrogate: Pyrene-d10	102 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	107 %		60-130			"	"	"	

Origins Laboratory



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

Jeremy Espinoza  
Project Number: 09A1417745  
Project: KMG - Anderson Adolph Facility & Unit 1 Wellhead

**DL01-S01@3'**

**8/29/2024 10:58:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408831-03 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	1.98		0.261	mg/kg	10	B4H2948	08/29/2024	08/30/2024	
Barium	97.9		8.99	"	"	"	"	"	
Cadmium	0.243		0.0899	"	"	"	"	"	
Lead	7.64		0.899	"	"	"	"	"	
Nickel	7.78		0.899	"	"	"	"	"	
Selenium	ND		0.234	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.172	0.429	mg/kg dry	1	2676789	09/27/2024	10/02/2024	U
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 Project: KMG - Anderson Adolph Facility & Unit 1 Wellhead

**DL01-W01@3'**

**8/29/2024 10:52:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408831-04 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4H2905	08/29/2024	08/30/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	97.8 %	50-150	"	"	"	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4H2927	08/29/2024	08/30/2024	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	113 %	70-130	"	"	"	"	"	"
Surrogate: Toluene-d8	117 %	70-130	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	113 %	70-130	"	"	"	"	"	"

**PAH by EPA 8270E**

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 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417745  
 Project: KMG - Anderson Adolph Facility & Unit 1 Wellhead

**DL01-W01@3'**

**8/29/2024 10:52:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408831-04 (Soil)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4H2945	08/29/2024	08/29/2024	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
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	96.3 %	60-130	"	"	"
Surrogate: Anthracene-d10	93.2 %	60-130	"	"	"
Surrogate: Pyrene-d10	110 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	106 %	60-130	"	"	"

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 Project Number: 09A1417745  
 Project: KMG - Anderson Adolph Facility & Unit 1 Wellhead

**DL01-W01@3'**

**8/29/2024 10:52:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408831-04 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	2.85		0.257	mg/kg	10	B4H2948	08/29/2024	08/30/2024	
Barium	117		8.86	"	"	"	"	"	
Cadmium	0.125		0.0886	"	"	"	"	"	
Lead	9.37		0.886	"	"	"	"	"	
Nickel	9.00		0.886	"	"	"	"	"	
Selenium	ND		0.230	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.173	0.432	mg/kg dry	1	2676789	09/27/2024	10/02/2024	U
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 Project: KMG - Anderson Adolph Facility & Unit 1 Wellhead

**DL01-B01@6'**

**8/29/2024 10:46:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408831-05 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4H2905	08/29/2024	08/30/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	98.6 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4H2927	08/29/2024	08/30/2024	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	116 %		70-130			"	"	"	
Surrogate: Toluene-d8	115 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	114 %		70-130			"	"	"	

**PAH by EPA 8270E**

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Jeremy Espinoza  
 Project Number: 09A1417745  
 Project: KMG - Anderson Adolph Facility & Unit 1 Wellhead

**DL01-B01@6'**

**8/29/2024 10:46:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408831-05 (Soil)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4H2945	08/29/2024	08/30/2024	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
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	97.2 %	60-130	"	"	"
Surrogate: Anthracene-d10	93.0 %	60-130	"	"	"
Surrogate: Pyrene-d10	100 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130	"	"	"

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Jeremy Espinoza  
Project Number: 09A1417745  
Project: KMG - Anderson Adolph Facility & Unit 1 Wellhead

**DL01-B01@6'**

**8/29/2024 10:46:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408831-05 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	1.20		0.263	mg/kg	10	B4H2948	08/29/2024	08/30/2024	
Barium	39.6		9.08	"	"	"	"	"	
Cadmium	ND		0.0908	"	"	"	"	"	
Lead	3.59		0.908	"	"	"	"	"	
Nickel	3.64		0.908	"	"	"	"	"	
Selenium	ND		0.236	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.171	0.427	mg/kg dry	1	2676789	09/27/2024	10/02/2024	U
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Ensolum  
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 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417745  
 Project: KMG - Anderson Adolph Facility & Unit 1 Wellhead

SEP01IN-N01@3'  
 8/29/2024 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
 Y408831-06 (Soil)

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4H2945	08/29/2024	08/30/2024	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
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	96.6 %		60-130			"	"	"	
Surrogate: Anthracene-d10	92.3 %		60-130			"	"	"	
Surrogate: Pyrene-d10	110 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	105 %		60-130			"	"	"	

Origins Laboratory



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 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417745  
 Project: KMG - Anderson Adolph Facility & Unit 1 Wellhead

**SEP01IN-N01@3'**  
**8/29/2024 12:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408831-06 (Soil)**

**pH in Soil by 9045D**

pH	5.44			pH Units	1	B4H3021	08/30/2024	09/01/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	1.64		0.279	mg/kg	10	B4H2948	08/29/2024	08/30/2024	
Barium	48.3		9.62	"	"	"	"	"	
Cadmium	ND		0.0962	"	"	"	"	"	
Lead	4.17		0.962	"	"	"	"	"	
Nickel	3.82		0.962	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.148	0.370	mg/kg dry	1	2676789	09/27/2024	10/02/2024	U
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 Project: KMG - Anderson Adolph Facility & Unit 1 Wellhead

**SEP01IN-E01@3'**

**8/29/2024 11:45:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408831-07 (Soil)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4H2945	08/29/2024	08/30/2024	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
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	98.9 %	60-130	"	"	"
Surrogate: Anthracene-d10	93.1 %	60-130	"	"	"
Surrogate: Pyrene-d10	106 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	108 %	60-130	"	"	"

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**SEP01IN-E01@3'**  
**8/29/2024 11:45:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408831-07 (Soil)**

**pH in Soil by 9045D**

pH	6.34			pH Units	1	B4H3021	08/30/2024	09/01/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	1.63		0.269	mg/kg	10	B4H2948	08/29/2024	08/30/2024	
Barium	62.6		9.27	"	"	"	"	"	
Cadmium	ND		0.0927	"	"	"	"	"	
Lead	4.21		0.927	"	"	"	"	"	
Nickel	4.37		0.927	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.153	0.382	mg/kg dry	1	2676789	09/27/2024	10/02/2024	U
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 Project Number: 09A1417745  
 Project: KMG - Anderson Adolph Facility & Unit 1 Wellhead

**SEP01IN-S01@3'**

**8/29/2024 11:58:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408831-08 (Soil)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4H2945	08/29/2024	08/30/2024	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
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	97.8 %	60-130	"	"	"
Surrogate: Anthracene-d10	93.5 %	60-130	"	"	"
Surrogate: Pyrene-d10	107 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	106 %	60-130	"	"	"

Origins Laboratory



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

Jeremy Espinoza  
 Project Number: 09A1417745  
 Project: KMG - Anderson Adolph Facility & Unit 1 Wellhead

**SEP01IN-S01@3'**

**8/29/2024 11:58:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408831-08 (Soil)**

**pH in Soil by 9045D**

pH	6.04			pH Units	1	B4H3021	08/30/2024	09/01/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	1.61		0.245	mg/kg	10	B4H2948	08/29/2024	08/30/2024	
Barium	43.2		8.44	"	"	"	"	"	
Cadmium	ND		0.0844	"	"	"	"	"	
Lead	4.49		0.844	"	"	"	"	"	
Nickel	4.07		0.844	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.177	0.441	mg/kg dry	1	2676789	09/27/2024	10/02/2024	U
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 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417745  
 Project: KMG - Anderson Adolph Facility & Unit 1 Wellhead

**SEP01IN-W01@3'**

**8/29/2024 12:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408831-09 (Soil)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4H2945	08/29/2024	08/30/2024	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
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	97.6 %	60-130	"	"	"
Surrogate: Anthracene-d10	91.8 %	60-130	"	"	"
Surrogate: Pyrene-d10	106 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130	"	"	"

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Jeremy Espinoza  
Project Number: 09A1417745  
Project: KMG - Anderson Adolph Facility & Unit 1 Wellhead

SEP01IN-W01@3'

8/29/2024 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
Y408831-09 (Soil)

**pH in Soil by 9045D**

pH	6.41			pH Units	1	B4H3021	08/30/2024	09/01/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	1.62		0.288	mg/kg	10	B4H2948	08/29/2024	08/30/2024	
Barium	51.2		9.92	"	"	"	"	"	
Cadmium	ND		0.0992	"	"	"	"	"	
Lead	4.25		0.992	"	"	"	"	"	
Nickel	4.66		0.992	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.149	0.372	mg/kg dry	1	2676789	09/27/2024	10/02/2024	U
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 Project: KMG - Anderson Adolph Facility & Unit 1 Wellhead

**SEP01IN-B01@6'**  
**8/29/2024 11:51:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408831-10 (Soil)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4H2945	08/29/2024	08/30/2024	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
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	97.3 %	60-130	"	"	"
Surrogate: Anthracene-d10	92.3 %	60-130	"	"	"
Surrogate: Pyrene-d10	102 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	104 %	60-130	"	"	"

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 Project Number: 09A1417745  
 Project: KMG - Anderson Adolph Facility & Unit 1 Wellhead

**SEP01IN-B01@6'**  
**8/29/2024 11:51:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408831-10 (Soil)**

**pH in Soil by 9045D**

pH	8.50			pH Units	1	B4H3021	08/30/2024	09/01/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	4.98		0.282	mg/kg	10	B4H2948	08/29/2024	08/30/2024	
Barium	130		9.71	"	"	"	"	"	
Cadmium	0.242		0.0971	"	"	"	"	"	
Lead	11.3		0.971	"	"	"	"	"	
Nickel	16.9		0.971	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.168	0.421	mg/kg dry	1	2676789	09/27/2024	10/02/2024	U
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 Project: KMG - Anderson Adolph Facility & Unit 1 Wellhead

**SEP01OUT-N01@3'**  
**8/29/2024 11:21:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408831-11 (Soil)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4H2945	08/29/2024	08/30/2024	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
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	98.2 %	60-130	"	"	"
Surrogate: Anthracene-d10	92.1 %	60-130	"	"	"
Surrogate: Pyrene-d10	101 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	103 %	60-130	"	"	"

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Jeremy Espinoza  
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Project: KMG - Anderson Adolph Facility & Unit 1 Wellhead

**SEP01OUT-N01@3'**  
**8/29/2024 11:21:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408831-11 (Soil)**

**pH in Soil by 9045D**

pH	6.72			pH Units	1	B4H3021	08/30/2024	09/01/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	1.56		0.275	mg/kg	10	B4H2948	08/29/2024	08/30/2024	
Barium	62.8		9.47	"	"	"	"	"	
Cadmium	ND		0.0947	"	"	"	"	"	
Lead	3.98		0.947	"	"	"	"	"	
Nickel	4.08		0.947	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.144	0.359	mg/kg dry	1	2676789	09/27/2024	10/02/2024	U
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 Project Number: 09A1417745  
 Project: KMG - Anderson Adolph Facility & Unit 1 Wellhead

**SEP01OUT-E01@3'**  
**8/29/2024 11:16:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408831-12 (Soil)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4H2945	08/29/2024	08/30/2024	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
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	97.3 %	60-130	"	"	"
Surrogate: Anthracene-d10	92.6 %	60-130	"	"	"
Surrogate: Pyrene-d10	104 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	104 %	60-130	"	"	"

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**SEP01OUT-E01@3'**  
**8/29/2024 11:16:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408831-12 (Soil)**

**pH in Soil by 9045D**

pH	8.43			pH Units	1	B4H3021	08/30/2024	09/01/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	1.97		0.248	mg/kg	10	B4H2948	08/29/2024	08/30/2024	
Barium	51.0		8.56	"	"	"	"	"	
Cadmium	0.0899		0.0856	"	"	"	"	"	
Lead	5.13		0.856	"	"	"	"	"	
Nickel	4.68		0.856	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.154	0.385	mg/kg dry	1	2676789	09/27/2024	10/02/2024	U
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 Project: KMG - Anderson Adolph Facility & Unit 1 Wellhead

**SEP01OUT-S01@3'**  
**8/29/2024 11:29:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408831-13 (Soil)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4H2945	08/29/2024	08/30/2024	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
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	98.2 %	60-130	"	"	"
Surrogate: Anthracene-d10	91.9 %	60-130	"	"	"
Surrogate: Pyrene-d10	102 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	103 %	60-130	"	"	"

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**SEP01OUT-S01@3'**  
**8/29/2024 11:29:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408831-13 (Soil)**

**pH in Soil by 9045D**

pH	6.86			pH Units	1	B4H3021	08/30/2024	09/01/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	1.49		0.264	mg/kg	10	B4H2948	08/29/2024	08/30/2024	
Barium	50.3		9.12	"	"	"	"	"	
Cadmium	ND		0.0912	"	"	"	"	"	
Lead	4.30		0.912	"	"	"	"	"	
Nickel	3.81		0.912	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.146	0.365	mg/kg dry	1	2676789	09/27/2024	10/02/2024	U
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**SEP01OUT-W01@3'**  
**8/29/2024 11:33:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408831-14 (Soil)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4H2945	08/29/2024	08/30/2024	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
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	97.7 %	60-130	"	"	"
Surrogate: Anthracene-d10	92.5 %	60-130	"	"	"
Surrogate: Pyrene-d10	104 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	104 %	60-130	"	"	"

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 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417745  
 Project: KMG - Anderson Adolph Facility & Unit 1 Wellhead

**SEP01OUT-W01@3'**  
**8/29/2024 11:33:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408831-14 (Soil)**

**pH in Soil by 9045D**

pH	6.49			pH Units	1	B4H3021	08/30/2024	09/01/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	1.74		0.273	mg/kg	10	B4H2948	08/29/2024	08/30/2024	
Barium	58.8		9.40	"	"	"	"	"	
Cadmium	ND		0.0940	"	"	"	"	"	
Lead	4.40		0.940	"	"	"	"	"	
Nickel	4.56		0.940	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.154	0.385	mg/kg dry	1	2676789	09/27/2024	10/02/2024	U
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Origins Laboratory



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

Jeremy Espinoza  
 Project Number: 09A1417745  
 Project: KMG - Anderson Adolph Facility & Unit 1 Wellhead

**SEP01OUT-B01@6'**  
**8/29/2024 11:09:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408831-15 (Soil)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4H2945	08/29/2024	08/30/2024	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
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	97.5 %	60-130	"	"	"
Surrogate: Anthracene-d10	92.3 %	60-130	"	"	"
Surrogate: Pyrene-d10	105 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	104 %	60-130	"	"	"

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**SEP01OUT-B01@6'**  
**8/29/2024 11:09:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408831-15 (Soil)**

**pH in Soil by 9045D**

pH	7.89			pH Units	1	B4H3021	08/30/2024	09/01/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	1.51		0.266	mg/kg	10	B4H2948	08/29/2024	08/30/2024	
Barium	47.5		9.16	"	"	"	"	"	
Cadmium	ND		0.0916	"	"	"	"	"	
Lead	4.55		0.916	"	"	"	"	"	
Nickel	5.09		0.916	"	"	"	"	"	

**Total Metals 7196 A**

Hexavalent Chromium	ND	0.161	0.403	mg/kg dry	1	2676791	09/27/2024	10/02/2024	U
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**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4H2905 - EPA 3550B</b>										
<b>Blank (B4H2905-BLK1)</b>										
					Prepared: 08/29/2024 Analyzed: 08/29/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	24		"	24.9		95.9	50-150			

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**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4H2905 - EPA 3550B**

**LCS (B4H2905-BS1)**

Prepared: 08/29/2024 Analyzed: 08/29/2024

Diesel (C10-C28)	934	50.0	mg/kg	1000		93.4	70-130			
Residual Range Organics (C28-C40)	983	200	"	1000		98.3	70-130			
Surrogate: o-Terphenyl	54		"	49.8		109	50-150			

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**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4H2905 - EPA 3550B**

<b>Matrix Spike (B4H2905-MS1)</b>	<b>Source: Y408829-01</b>			Prepared: 08/29/2024 Analyzed: 08/29/2024						
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	56		"	49.8		113	50-150			

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**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4H2905 - EPA 3550B</b>										
<b>Matrix Spike Dup (B4H2905-MSD1)</b>					<b>Source: Y408829-01</b>					Prepared: 08/29/2024 Analyzed: 08/29/2024
Diesel (C10-C28)	970	50.0	mg/kg	1000	ND	97.0	70-130	4.77	35	
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130	4.13	35	
Surrogate: o-Terphenyl	55		"	49.8		111	50-150			

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**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4H2927 - EPA 5030 (soil)**

**Blank (B4H2927-BLK1)**

Prepared: 08/29/2024 Analyzed: 08/29/2024

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	0.12		"	0.125	96.6		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	104		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	106		70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H2927 - EPA 5030 (soil)

**LCS (B4H2927-BS1)**

Prepared: 08/29/2024 Analyzed: 08/29/2024

1,2,4-Trimethylbenzene	0.0999	0.00200	mg/kg	0.100		99.9	70-130			
1,3,5-Trimethylbenzene	0.0981	0.00200	"	0.100		98.1	70-130			
Benzene	0.0836	0.00200	"	0.100		83.6	70-130			
Ethylbenzene	0.0995	0.00200	"	0.100		99.5	70-130			
Naphthalene	0.0802	0.00380	"	0.100		80.2	70-130			
Toluene	0.0941	0.00200	"	0.100		94.1	70-130			
o-Xylene	0.101	0.00200	"	0.100		101	70-130			
m,p-Xylene	0.184	0.00400	"	0.200		92.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.4	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		113	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H2927 - EPA 5030 (soil)

Matrix Spike (B4H2927-MS1)	Source: Y408820-01			Prepared: 08/29/2024 Analyzed: 08/29/2024						
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	ND	102	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130			
Benzene	0.0821	0.00200	"	0.100	ND	82.1	70-130			
Ethylbenzene	0.0934	0.00200	"	0.100	ND	93.4	70-130			
Naphthalene	0.0867	0.00380	"	0.100	ND	86.7	70-130			
Toluene	0.0968	0.00200	"	0.100	ND	96.8	70-130			
o-Xylene	0.0954	0.00200	"	0.100	ND	95.4	70-130			
m,p-Xylene	0.179	0.00400	"	0.200	ND	89.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		85.5	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		112	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.5	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4H2927 - EPA 5030 (soil)**

Matrix Spike Dup (B4H2927-MSD1)	Source: Y408820-01			Prepared: 08/29/2024 Analyzed: 08/29/2024						
1,2,4-Trimethylbenzene	0.0948	0.00200	mg/kg	0.100	ND	94.8	70-130	7.77	20	
1,3,5-Trimethylbenzene	0.0883	0.00200	"	0.100	ND	88.3	70-130	14.0	20	
Benzene	0.0858	0.00200	"	0.100	ND	85.8	70-130	4.41	20	
Ethylbenzene	0.0903	0.00200	"	0.100	ND	90.3	70-130	3.29	20	
Naphthalene	0.0823	0.00380	"	0.100	ND	82.3	70-130	5.21	20	
Toluene	0.0993	0.00200	"	0.100	ND	99.3	70-130	2.59	20	
o-Xylene	0.0921	0.00200	"	0.100	ND	92.1	70-130	3.54	20	
m,p-Xylene	0.173	0.00400	"	0.200	ND	86.3	70-130	3.37	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.8	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		113	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.1	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4H2948 - EPA 3050B**

**Blank (B4H2948-BLK1)**

Prepared: 08/29/2024 Analyzed: 08/30/2024

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 (B4H2948-BS1)**

Prepared: 08/29/2024 Analyzed: 08/30/2024

Arsenic	5.64	0.290	mg/kg	5.00		113	80-120			
Barium	532	10.0	"	500		106	80-120			
Cadmium	5.56	0.100	"	5.00		111	80-120			
Copper	55.5	10.0	"	50.0		111	80-120			
Lead	5.07	1.00	"	5.00		101	80-120			
Nickel	5.66	1.00	"	5.00		113	80-120			
Selenium	5.50	0.260	"	5.00		110	80-120			
Silver	5.73	0.100	"	5.00		115	80-120			
Zinc	55.7	37.0	"	50.0		111	80-120			

**Matrix Spike (B4H2948-MS1)**

**Source: Y408820-01**

Prepared: 08/29/2024 Analyzed: 08/30/2024

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**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4H2948 - EPA 3050B**

<b>Matrix Spike (B4H2948-MS1)</b>	<b>Source: Y408820-01</b>				<b>Prepared: 08/29/2024 Analyzed: 08/30/2024</b>					
Arsenic	7.58	0.271	mg/kg	4.66	1.33	134	75-125			QM-07
Barium	503	9.33	"	466	14.1	105	75-125			
Cadmium	4.91	0.0933	"	4.66	0.0377	105	75-125			
Copper	53.6	9.33	"	46.6	4.14	106	75-125			
Lead	9.38	0.933	"	4.66	3.13	134	75-125			QM-07
Nickel	8.59	0.933	"	4.66	3.41	111	75-125			
Selenium	4.96	0.243	"	4.66	0.123	104	75-125			
Silver	5.02	0.0933	"	4.66	0.0179	107	75-125			
Zinc	61.6	34.5	"	46.6	10.4	110	75-125			

<b>Matrix Spike Dup (B4H2948-MSD1)</b>	<b>Source: Y408820-01</b>				<b>Prepared: 08/29/2024 Analyzed: 08/30/2024</b>					
Arsenic	7.04	0.278	mg/kg	4.79	1.33	119	75-125	7.31	20	
Barium	521	9.57	"	479	14.1	106	75-125	3.33	20	
Cadmium	5.30	0.0957	"	4.79	0.0377	110	75-125	7.55	20	
Copper	56.6	9.57	"	47.9	4.14	110	75-125	5.49	20	
Lead	7.86	0.957	"	4.79	3.13	98.8	75-125	17.7	20	
Nickel	10.4	0.957	"	4.79	3.41	146	75-125	18.9	20	QM-07
Selenium	5.54	0.249	"	4.79	0.123	113	75-125	11.0	20	
Silver	5.43	0.0957	"	4.79	0.0179	113	75-125	7.82	20	
Zinc	63.9	35.4	"	47.9	10.4	112	75-125	3.78	20	

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**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4H2945 - EPA 3580**

**Blank (B4H2945-BLK1)**

Prepared: 08/29/2024 Analyzed: 08/29/2024

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	200		ug/kg	200		97.6	60-130			
Surrogate: Anthracene-d10	190		"	200		93.0	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

**LCS (B4H2945-BS1)**

Prepared: 08/29/2024 Analyzed: 08/29/2024

1-Methylnaphthalene	0.182	0.002	mg/kg	0.200		91.0	70-130			
2-Methylnaphthalene	0.182	0.002	"	0.200		91.2	70-130			
Acenaphthene	0.188	0.020	"	0.200		94.2	70-130			
Anthracene	0.175	0.020	"	0.200		87.7	70-130			

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 Project Number: 09A1417745  
 Project: KMG - Anderson Adolph Facility & Unit 1 Wellhead

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4H2945 - EPA 3580**

**LCS (B4H2945-BS1)**

Prepared: 08/29/2024 Analyzed: 08/29/2024

Benzo (a) anthracene	0.181	0.005	mg/kg	0.200		90.5	70-130			
Benzo (a) pyrene	0.192	0.020	"	0.200		96.0	70-130			
Benzo (b) fluoranthene	0.185	0.020	"	0.200		92.3	70-130			
Benzo (g,h,i) perylene	0.182	0.020	"	0.200		90.9	70-130			
Benzo (k) fluoranthene	0.181	0.020	"	0.200		90.5	70-130			
Chrysene	0.173	0.020	"	0.200		86.5	70-130			
Dibenz (a,h) anthracene	0.178	0.020	"	0.200		88.8	70-130			
Fluoranthene	0.160	0.020	"	0.200		80.2	70-130			
Fluorene	0.185	0.020	"	0.200		92.4	70-130			
Indeno (1,2,3-cd) pyrene	0.171	0.020	"	0.200		85.3	70-130			
Naphthalene	0.188	0.002	"	0.200		93.8	70-130			
Phenanthrene	0.182	0.020	"	0.200		90.8	70-130			
Pyrene	0.199	0.020	"	0.200		99.6	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		96.0	60-130			
Surrogate: Anthracene-d10	180		"	200		92.4	60-130			
Surrogate: Pyrene-d10	210		"	200		106	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

**Matrix Spike (B4H2945-MS1)**

**Source: Y408830-01**

Prepared: 08/29/2024 Analyzed: 08/29/2024

1-Methylnaphthalene	0.208	0.002	mg/kg	0.200	ND	104	70-130			
2-Methylnaphthalene	0.209	0.002	"	0.200	ND	104	70-130			
Acenaphthene	0.213	0.020	"	0.200	ND	107	70-130			
Anthracene	0.204	0.020	"	0.200	0.0005	102	70-130			
Benzo (a) anthracene	0.205	0.005	"	0.200	ND	102	70-130			
Benzo (a) pyrene	0.212	0.020	"	0.200	ND	106	70-130			
Benzo (b) fluoranthene	0.218	0.020	"	0.200	ND	109	70-130			
Benzo (g,h,i) perylene	0.205	0.020	"	0.200	ND	102	70-130			

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

Jeremy Espinoza  
 Project Number: 09A1417745  
 Project: KMG - Anderson Adolph Facility & Unit 1 Wellhead

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4H2945 - EPA 3580**

**Matrix Spike (B4H2945-MS1)**

**Source: Y408830-01**

Prepared: 08/29/2024 Analyzed: 08/29/2024

Benzo (k) fluoranthene	0.211	0.020	mg/kg	0.200	ND	106	70-130		
Chrysene	0.198	0.020	"	0.200	ND	99.1	70-130		
Dibenz (a,h) anthracene	0.201	0.020	"	0.200	ND	101	70-130		
Fluoranthene	0.191	0.020	"	0.200	ND	95.5	70-130		
Fluorene	0.213	0.020	"	0.200	ND	106	70-130		
Indeno (1,2,3-cd) pyrene	0.196	0.020	"	0.200	ND	98.0	70-130		
Naphthalene	0.213	0.002	"	0.200	ND	106	70-130		
Phenanthrene	0.206	0.020	"	0.200	ND	103	70-130		
Pyrene	0.218	0.020	"	0.200	ND	109	70-130		

Surrogate: Fluorene-d10	200		ug/kg	200		97.7	60-130		
Surrogate: Anthracene-d10	190		"	200		93.3	60-130		
Surrogate: Pyrene-d10	210		"	200		104	60-130		
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130		

**Matrix Spike Dup (B4H2945-MSD1)**

**Source: Y408830-01**

Prepared: 08/29/2024 Analyzed: 08/29/2024

1-Methylnaphthalene	0.207	0.002	mg/kg	0.200	ND	103	70-130	0.929	20
2-Methylnaphthalene	0.207	0.002	"	0.200	ND	103	70-130	0.938	20
Acenaphthene	0.214	0.020	"	0.200	ND	107	70-130	0.145	20
Anthracene	0.198	0.020	"	0.200	0.0005	98.8	70-130	2.77	20
Benzo (a) anthracene	0.204	0.005	"	0.200	ND	102	70-130	0.569	20
Benzo (a) pyrene	0.215	0.020	"	0.200	ND	108	70-130	1.45	20
Benzo (b) fluoranthene	0.210	0.020	"	0.200	ND	105	70-130	3.68	20
Benzo (g,h,i) perylene	0.206	0.020	"	0.200	ND	103	70-130	0.704	20
Benzo (k) fluoranthene	0.212	0.020	"	0.200	ND	106	70-130	0.539	20
Chrysene	0.197	0.020	"	0.200	ND	98.7	70-130	0.397	20
Dibenz (a,h) anthracene	0.207	0.020	"	0.200	ND	104	70-130	2.80	20
Fluoranthene	0.188	0.020	"	0.200	ND	94.0	70-130	1.62	20

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**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4H2945 - EPA 3580**

Matrix Spike Dup (B4H2945-MSD1)	Source: Y408830-01			Prepared: 08/29/2024 Analyzed: 08/29/2024						
Fluorene	0.213	0.020	mg/kg	0.200	ND	106	70-130	0.0323	20	
Indeno (1,2,3-cd) pyrene	0.198	0.020	"	0.200	ND	99.1	70-130	1.10	20	
Naphthalene	0.211	0.002	"	0.200	ND	105	70-130	0.831	20	
Phenanthrene	0.203	0.020	"	0.200	ND	101	70-130	1.66	20	
Pyrene	0.221	0.020	"	0.200	ND	110	70-130	1.16	20	
Surrogate: Fluorene-d10	200		ug/kg	200		98.8	60-130			
Surrogate: Anthracene-d10	190		"	200		93.8	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

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**Saturated Paste - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4H3021 - Saturated Paste pH/EC**

**Duplicate (B4H3021-DUP1)**

**Source: Y408798-40**

Prepared: 08/30/2024 Analyzed: 09/01/2024

pH	7.99		pH Units		8.03			0.499	25	
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 Project: KMG - Anderson Adolph Facility & Unit 1 Wellhead

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2676791 - SW846 3060A</b>										
<b>BLANK (1205864340-BLK)</b>					Prepared: 09/27/2024 Analyzed: 10/02/2024					
Hexavalent Chromium	ND	0.344	mg/kg				-			U
<b>LCS (1205864341-BKS)</b>					Prepared: 09/27/2024 Analyzed: 10/02/2024					
Hexavalent Chromium	3.88	0.387	mg/kg	3.87		100	80-120			
<b>DUP (1205864342 D)</b>					Source: 683892002 Prepared: 09/27/2024 Analyzed: 10/02/2024					
Hexavalent Chromium	ND	0.391	mg/kg dry		<0.157		0-50	N/A	50	U
<b>MS (1205864343 S)</b>					Source: 683892002 Prepared: 09/27/2024 Analyzed: 10/02/2024					
Hexavalent Chromium	3.81	0.398	mg/kg dry	3.98	<0.159	95	75-125			
<b>DUP (1205864344 D)</b>					Source: 683892001 Prepared: 09/27/2024 Analyzed: 10/02/2024					
Hexavalent Chromium	ND	0.398	mg/kg dry		<0.159		0-50	N/A	50	U
<b>MS (1205864345 S)</b>					Source: 683892001 Prepared: 09/27/2024 Analyzed: 10/02/2024					
Hexavalent Chromium	3.66	0.392	mg/kg dry	3.92	<0.157	91.6	75-125			
<b>ILCS (1205864346-ILCS)</b>					Prepared: 09/27/2024 Analyzed: 10/02/2024					
Hexavalent Chromium	6.82	0.329	mg/kg	6.71		102	80-120			

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Project: KMG - Anderson Adolph Facility & Unit 1 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
<b>Batch 2676789 - SW846 3060A</b>										
<b>BLANK (1205864333-BLK)</b>					Prepared: 09/27/2024 Analyzed: 10/02/2024					
Hexavalent Chromium	ND	0.344	mg/kg				-			U
<b>LCS (1205864334-BKS)</b>					Prepared: 09/27/2024 Analyzed: 10/02/2024					
Hexavalent Chromium	3.19	0.319	mg/kg	3.19		100	80-120			
<b>DUP (1205864335 D)</b>					Source: Y408831-01 Prepared: 09/27/2024 Analyzed: 10/02/2024					
Hexavalent Chromium	ND	0.437	mg/kg dry		<0.175		0-50	N/A	50	U
<b>MS (1205864336 S)</b>					Source: Y408831-01 Prepared: 09/27/2024 Analyzed: 10/02/2024					
Hexavalent Chromium	3.69	0.394	mg/kg dry	3.94	<0.158	92.6	75-125			
<b>DUP (1205864337 D)</b>					Source: Y408831-02 Prepared: 09/27/2024 Analyzed: 10/02/2024					
Hexavalent Chromium	ND	0.411	mg/kg dry		<0.164		0-50	N/A	50	U
<b>MS (1205864338 S)</b>					Source: Y408831-02 Prepared: 09/27/2024 Analyzed: 10/02/2024					
Hexavalent Chromium	3.17	0.396	mg/kg dry	3.96	<0.159	80.1	75-125			
<b>ILCS (1205864339-ILCS)</b>					Prepared: 09/27/2024 Analyzed: 10/02/2024					
Hexavalent Chromium	7.95	0.387	mg/kg	7.77		102	80-120			

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### Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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