



Ensolum

November 01, 2024

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

**Project Name - KMG - Sherwood L Fed 30-29D
Wellhead**

Project Number - 09A1417184

Attached are your analytical results for KMG - Sherwood L Fed 30-29D Wellhead received by Origins Laboratory October 16, 2024. This project is associated with Origins project number E410503-01.

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: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N01(L30-30D)@4.5'	E410503-01	Soil	October 16, 2024 15:15	10/16/2024 18:06
N01(L30-30D)@4.5'-V	E410503-02	Soil	October 16, 2024 15:16	10/16/2024 18:06
E01(L30-30D)@4.5'	E410503-03	Soil	October 16, 2024 15:10	10/16/2024 18:06
E01(L30-30D)@4.5'-V	E410503-04	Soil	October 16, 2024 15:11	10/16/2024 18:06
S01(L30-30D)@4.5'	E410503-05	Soil	October 16, 2024 15:25	10/16/2024 18:06
S01(L30-30D)@4.5'-V	E410503-06	Soil	October 16, 2024 15:26	10/16/2024 18:06
W01(L30-30D)@4.5'	E410503-07	Soil	October 16, 2024 15:21	10/16/2024 18:06
W01(L30-30D)@4.5'-V	E410503-08	Soil	October 16, 2024 15:22	10/16/2024 18:06
B01(L30-30D)@9'	E410503-09	Soil	October 16, 2024 15:15	10/16/2024 18:06
B01(L30-30D)@9'-V	E410503-10	Soil	October 16, 2024 15:16	10/16/2024 18:06
N01(L30-31D)@4.5'	E410503-11	Soil	October 16, 2024 15:07	10/16/2024 18:06
N01(L30-31D)@4.5'-V	E410503-12	Soil	October 16, 2024 15:08	10/16/2024 18:06
E01(L30-31D)@4.5'	E410503-13	Soil	October 16, 2024 15:03	10/16/2024 18:06
E01(L30-31D)@4.5'-V	E410503-14	Soil	October 16, 2024 15:04	10/16/2024 18:06

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Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S01(L30-31D)@4.5'	E410503-15	Soil	October 16, 2024 14:59	10/16/2024 18:06
S01(L30-31D)@4.5'-V	E410503-16	Soil	October 16, 2024 15:00	10/16/2024 18:06
W01(L30-31D)@4.5'	E410503-17	Soil	October 16, 2024 14:52	10/16/2024 18:06
W01(L30-31D)@4.5'-V	E410503-18	Soil	October 16, 2024 14:53	10/16/2024 18:06
B01(L30-31D)@9'	E410503-19	Soil	October 16, 2024 14:58	10/16/2024 18:06
B01(L30-31D)@9'-V	E410503-20	Soil	October 16, 2024 14:59	10/16/2024 18:06
N01(L30-32D)@4.5'	E410503-21	Soil	October 16, 2024 14:26	10/16/2024 18:06
N01(L30-32D)@4.5'-V	E410503-22	Soil	October 16, 2024 14:27	10/16/2024 18:06
E01(L30-32D)@4.5'	E410503-23	Soil	October 16, 2024 14:29	10/16/2024 18:06
E01(L30-32D)@4.5'-V	E410503-24	Soil	October 16, 2024 14:30	10/16/2024 18:06
S01(L30-32D)@4.5'	E410503-25	Soil	October 16, 2024 14:33	10/16/2024 18:06
S01(L30-32D)@4.5'-V	E410503-26	Soil	October 16, 2024 14:34	10/16/2024 18:06
W01(L30-32D)@4.5'	E410503-27	Soil	October 16, 2024 14:39	10/16/2024 18:06
W01(L30-32D)@4.5'-V	E410503-28	Soil	October 16, 2024 14:40	10/16/2024 18:06

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11049 W 44th Avenue, Suite 103

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Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01(L30-32D)@9'	E410503-29	Soil	October 16, 2024 14:47	10/16/2024 18:06
B01(L30-32D)@9'-V	E410503-30	Soil	October 16, 2024 14:48	10/16/2024 18:06
FL03/FL04-N02@3'	E410503-31	Soil	October 16, 2024 15:45	10/16/2024 18:06
FL03/FL04-N02@3'-V	E410503-32	Soil	October 16, 2024 15:46	10/16/2024 18:06
FL03/FL04-E02@3'	E410503-33	Soil	October 16, 2024 15:50	10/16/2024 18:06
FL03/FL04-E02@3'-V	E410503-34	Soil	October 16, 2024 15:51	10/16/2024 18:06
FL03/FL04-S02@3'	E410503-35	Soil	October 16, 2024 15:54	10/16/2024 18:06
FL03/FL04-S02@3'-V	E410503-36	Soil	October 16, 2024 15:55	10/16/2024 18:06
GW-FL03/FL04@5'	E410503-37	Water	October 16, 2024 16:10	10/16/2024 18:06
FL03/FL04-B01@6'	E410503-38	Soil	October 16, 2024 15:58	10/16/2024 18:06
FL03/FL04-B01@6'-V	E410503-39	Soil	October 16, 2024 15:59	10/16/2024 18:06

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

ORIGINS WORK ORDER # **610503** Page **1** of **4**

Client: Ensolum
Address:
Telephone Number:
Email Address: KMG-Tenn

Project Manager: Jeremy Espinoza
Project Name: Sherwood L Fed 30-29D Wellhead
Project Number: 09A1417184
Collected By: JL
Invoice/Billing Info: Impacted Oxy

Key:
 W=Water
 GW=Groundwater
 SW=Surface Water
 WW=Waste Water
 L=Liquid
 S=Soil SO=Solid O=Oil A=Air G=Gas U=Unpres HCl=Hydrochloric HNO3=Nitric H2SO4=Sulfuric NaOH=Sodium Hydroxide

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis							Comments	
							BTEX	THM (500)	PAHs	PCBs	PH	TOC	TOH		
1	NO1(30-30D)E4S	10/16/14	1515	3	S	UWP	X	X	X	X	X	X	X	X	PH
2	NO1(30-30D)E4S	10/16/14	1516	1	S	UWP	X	X	X	X	X	X	X	X	PH
3	FO1(30-30D)E4S	10/16/14	1510	1	S	UWP	X	X	X	X	X	X	X	X	PH
4	FO1(30-30D)E4S	10/16/14	1511	1	S	UWP	X	X	X	X	X	X	X	X	PH
5	SO1(30-30D)E4S	10/16/14	1508	1	S	UWP	X	X	X	X	X	X	X	X	PH
6	SO1(30-30D)E4S	10/16/14	1516	1	S	UWP	X	X	X	X	X	X	X	X	PH
7	NO1(30-30D)E4S	10/16/14	1511	1	S	UWP	X	X	X	X	X	X	X	X	PH
8	NO1(30-30D)E4S	10/16/14	1512	1	S	UWP	X	X	X	X	X	X	X	X	PH
9	BO1(30-30D)E4S	10/16/14	1515	1	S	UWP	X	X	X	X	X	X	X	X	PH
10	BO1(30-30D)E4S	10/16/14	1516	1	S	UWP	X	X	X	X	X	X	X	X	PH

Relinquished By: [Signature] **Date:** 10/16/14 **Time:** 1806
Received By: [Signature] **Date:** 10/16/14 **Time:** 800

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

Temp Received: 2.8 **Received On Ice:** ☐ Yes ☐ No

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Origins Laboratory

Byron

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

ORIGINS
LABORATORY

ORIGINS WORK ORDER #

Page 2 of 4

Client: Ensolum

Address: 11049 W 44th Ave, Ste. 103
Wheat Ridge, CO 80033

Telephone Number:

Email Address: KMG-Team

Project Manager: Jeremy Espinoza

Key:

W=Water

GW=Groundwater

Project Name: Sherwood L Fed 30-29D Wellhead

Project Number: 09A1417184

Collected By: JL

SW=Surface Water

WW=Waste Water

L=Liquid

Invoice/Billing Info: Analytical/OCY

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
							TOH (Gr) (Gr)	PAHs	BH	BHCN	PH	Gr	Gr	Gr	Gr	Gr	
1	N01 (30-31D) 0451	10/16/14	1507	3	S	UNP	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	*Exempt CRT	
2	N01 (30-31D) 0454	10/16/14	1508	1	S	UNP	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX		
3	E01 (30-31D) 0451	10/16/14	1507	1	S	UNP	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX		
4	E01 (30-31D) 0454	10/16/14	1504	1	S	UNP	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX		
5	S01 (30-31D) 0451	10/16/14	1454	1	S	UNP	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX		
6	S01 (30-31D) 0454	10/16/14	1500	1	S	UNP	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX		
7	W01 (30-31D) 0451	10/16/14	1452	1	S	UNP	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX		
8	W01 (30-31D) 0454	10/16/14	1453	1	S	UNP	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX		
9	B01 (30-31D) 0451	10/16/14	1458	1	S	UNP	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX		
10	B01 (30-31D) 0454	10/16/14	1454	1	S	UNP	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX		

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
[Signature]	10/16/14	1806	[Signature]	10/16/14	1806	SAME DAY
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
						48 Hr 72

For Lab Sample Receiving Only:
Temp Received: 7.8 Received On: 10/16/14
1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | originslab.com |

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

ORIGINS LABORATORY

ORIGINS WORK ORDER # **09A1417184** Page **3** of **4**

Client: **Ensolum**

Address: _____

Project Manager: **Jeremy Espinoza**

Project Name: **Sherwood L Fed 30-29D Wellhead**

Project Number: **09A1417184**

Collected By: **JE**

Invoice/Billing Info: **09/16/14**

Key: W=Water, GW=Groundwater, 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

Telephone Number: **720-111-1211**

Email Address: **jen@ensolum.com**

#	Sample ID	Date Sampled	# of Containers	Matrix	Preservative	Analysis		Comments
						PH	ORP	
1	001(30-32)0451	10/16/14	3	S	UNP	X	X	
2	001(30-32)0451	10/16/14	1			X	X	*Excess
3	001(30-32)0451	10/16/14	1			X	X	
4	001(30-32)0451	10/16/14	1			X	X	
5	001(30-32)0451	10/16/14	1			X	X	
6	001(30-32)0451	10/16/14	1			X	X	
7	001(30-32)0451	10/16/14	1			X	X	
8	001(30-32)0451	10/16/14	1			X	X	
9	001(30-32)0451	10/16/14	1			X	X	
10	001(30-32)0451	10/16/14	1			X	X	

Relinquished By: **JE** Date: **10/16/14** Time: **1806**

Received By: **JE** Date: **10/16/14** Time: **1806**

Turnaround Time: **24 Hr**

Temp Received: **2.8**

Received On Ice? ☒ Yes ☐ No

1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | originslab.com | Temp Received- 2.8 Received On Ice? ☒ Yes ☐ No

Origins Laboratory

J. Bynon

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

Page 4 of 4

640502

ORIGINS WORK ORDER #

ORIGINS
LABORATORY

Client: Ensolum

Address: 11049 W 44th Ave. Ste 100

Wheat Ridge, CO 80033

Telephone Number:

Email Address: KMG-T@ym

Project Manager: Jeremy Espinoza

Project Name: Sherwood L Fed 30-29D Wellhead

Project Number: 09A1417184

Collected By: JRE

Invoice/Billing Info: Imported/US

Key:

W=Water

GW=Groundwater

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

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	TAH (Drinking Water)	Analysis	Comments
1	F103/F104-Notes	10/16/24	1545	3	S	UNP	X	PH	
2	F103/F104-Notes	10/16/24	1546	1			X	NO3	
3	F103/F104-Notes	10/16/24	1550	1			X	NO2	
4	F103/F104-Notes	10/16/24	1551	1			X	Cu/Pb	
5	F103/F104-Notes	10/16/24	1554	1			X	Boron	
6	F103/F104-Notes	10/16/24	1555	1			X	PH	
7	GW-F103/F104	10/16/24	1610	4			X	NO3	
8	F103/F104-Notes	10/16/24	1558	3			X	NO2	
9	F103/F104-Notes	10/16/24	1559	3			X	Cu/Pb	
10	F103/F104-Notes	10/16/24	1559	3			X	Boron	

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
	10/16/24	1806	JRE	10/16/24	1800
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

For Lab Sample Receiving Only

1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | originslab.com | Temp Received: 2.8 Received On Ice? ☒ Yes ☐ No

Origins Laboratory

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ORIGINS LABORATORY

Ensolum

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Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: E410503

Client: Ensolum

Client Project ID: Sherwood

Checklist Completed by: JHE/WS

Shipped Via: HQ

Date/time completed: 10/16/12

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 2.8 °C _____ °C _____ °C (Describe) _____ °C

Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
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 HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

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

Reviewed by (Project Manager) JHE

10/16/12
Date/Time Reviewed

Origins Laboratory

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Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

N01(L30-30D)@4.5'

10/16/2024 3:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.381	0.100	mg/L	1	B4J1717	10/17/2024	10/18/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4J1657	10/16/2024	10/17/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	115 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4J1659	10/16/2024	10/17/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"

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Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

N01(L30-30D)@4.5'

10/16/2024 3:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene

102 %

70-130

B4J16
59

10/16/2024

10/17/2024

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	0.003	0.002	mg/kg	1	B4J1658	10/16/2024	10/17/2024	
2-Methylnaphthalene	0.002	0.002	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

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Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

N01(L30-30D)@4.5'

10/16/2024 3:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-01 (Soil)

PAH by EPA 8270E extracted via 3580A

Surrogate: Fluorene-d10	103 %	60-130	B4J16 58	10/16/2024	10/17/2024
Surrogate: Anthracene-d10	83.7 %	60-130	"	"	"
Surrogate: Pyrene-d10	110 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	98.4 %	60-130	"	"	"

pH in Soil by 9045D

pH	7.90	pH Units	1	B4J2136	10/21/2024	10/21/2024
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Table 915 metals by EPA 6020B

Arsenic	2.05	0.243	mg/kg	10	B4J1660	10/16/2024	10/17/2024
Barium	77.5	8.38	"	"	"	"	"
Cadmium	0.200	0.0838	"	"	"	"	"
Copper	8.77	8.38	"	"	"	"	"
Lead	12.0	0.838	"	"	"	"	"
Nickel	5.62	0.838	"	"	"	"	"
Selenium	ND	0.218	"	"	"	"	"
Silver	ND	0.0838	"	"	"	"	"
Zinc	38.3	31.0	"	"	"	"	"

Origins Laboratory



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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

N01(L30-30D)@4.5'-V

10/16/2024 3:16:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-02 (Soil)

pH in Soil by 9045D

pH	7.94		pH Units	1	B4J2136	10/21/2024	10/21/2024
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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

E01(L30-30D)@4.5'

10/16/2024 3:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.144	0.102	mg/L	1	B4J1717	10/17/2024	10/18/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4J1657	10/16/2024	10/17/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	127 %	50-150			"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4J1659	10/16/2024	10/17/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130			"	"	"
Surrogate: Toluene-d8	101 %	70-130			"	"	"

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

E01(L30-30D)@4.5'

10/16/2024 3:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene

102 %

70-130

B4J16
59

10/16/2024

10/17/2024

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	0.004	0.002	mg/kg	1	B4J1658	10/16/2024	10/17/2024	
2-Methylnaphthalene	0.005	0.002	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

E01(L30-30D)@4.5'

10/16/2024 3:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-03 (Soil)

PAH by EPA 8270E extracted via 3580A

Surrogate: Fluorene-d10	102 %	60-130	B4J16 58	10/16/2024	10/17/2024
Surrogate: Anthracene-d10	83.1 %	60-130	"	"	"
Surrogate: Pyrene-d10	105 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	98.0 %	60-130	"	"	"

pH in Soil by 9045D

pH	7.91	pH Units	1	B4J2136	10/21/2024	10/21/2024
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Table 915 metals by EPA 6020B

Arsenic	2.40	0.254	mg/kg	10	B4J1660	10/16/2024	10/17/2024
Barium	82.0	8.76	"	"	"	"	"
Cadmium	0.192	0.0876	"	"	"	"	"
Copper	ND	8.76	"	"	"	"	"
Lead	12.8	0.876	"	"	"	"	"
Nickel	6.68	0.876	"	"	"	"	"
Selenium	ND	0.228	"	"	"	"	"
Silver	ND	0.0876	"	"	"	"	"
Zinc	42.1	32.4	"	"	"	"	"

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Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

E01(L30-30D)@4.5'-V

10/16/2024 3:11:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-04 (Soil)

pH in Soil by 9045D

pH	7.93		pH Units	1	B4J2136	10/21/2024	10/21/2024
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Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

S01(L30-30D)@4.5'

10/16/2024 3:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.181	0.101	mg/L	1	B4J1717	10/17/2024	10/18/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4J1657	10/16/2024	10/17/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	120 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4J1659	10/16/2024	10/17/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	115 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

S01(L30-30D)@4.5'

10/16/2024 3:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene

101 %

70-130

B4J16
59

10/16/2024

10/17/2024

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	0.026	0.002	mg/kg	1	B4J1658	10/16/2024	10/17/2024	
2-Methylnaphthalene	0.039	0.002	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	0.026	0.020	"	"	"	"	"	
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	0.011	0.002	"	"	"	"	"	
Pyrene	ND	0.020	"	"	"	"	"	U

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

S01(L30-30D)@4.5'

10/16/2024 3:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-05 (Soil)

PAH by EPA 8270E extracted via 3580A

Surrogate: Fluorene-d10	102 %	60-130	B4J16 58	10/16/2024	10/17/2024
Surrogate: Anthracene-d10	83.1 %	60-130	"	"	"
Surrogate: Pyrene-d10	103 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	95.9 %	60-130	"	"	"

pH in Soil by 9045D

pH	7.90	pH Units	1	B4J2136	10/21/2024	10/21/2024
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Table 915 metals by EPA 6020B

Arsenic	2.08	0.250	mg/kg	10	B4J1660	10/16/2024	10/17/2024
Barium	189	8.62	"	"	"	"	"
Cadmium	0.204	0.0862	"	"	"	"	"
Copper	8.70	8.62	"	"	"	"	"
Lead	10.5	0.862	"	"	"	"	"
Nickel	5.66	0.862	"	"	"	"	"
Selenium	ND	0.224	"	"	"	"	"
Silver	ND	0.0862	"	"	"	"	"
Zinc	36.8	31.9	"	"	"	"	"

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Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

S01(L30-30D)@4.5'-V

10/16/2024 3:26:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-06 (Soil)

pH in Soil by 9045D

pH	7.88		pH Units	1	B4J2136	10/21/2024	10/21/2024
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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

W01(L30-30D)@4.5'

10/16/2024 3:21:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.187	0.101	mg/L	1	B4J1718	10/17/2024	10/18/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4J1657	10/16/2024	10/17/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U


Surrogate: o-Terphenyl	127 %	50-150			"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4J1659	10/16/2024	10/17/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	115 %	70-130			"	"	"
Surrogate: Toluene-d8	101 %	70-130			"	"	"

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

W01(L30-30D)@4.5'

10/16/2024 3:21:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-07 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene

103 %

70-130

B4J16
59

10/16/2024

10/17/2024

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4J1658	10/16/2024	10/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

W01(L30-30D)@4.5'

10/16/2024 3:21:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-07 (Soil)

PAH by EPA 8270E extracted via 3580A

Surrogate: Fluorene-d10	93.8 %	60-130	B4J16 58	10/16/2024	10/17/2024
Surrogate: Anthracene-d10	84.0 %	60-130	"	"	"
Surrogate: Pyrene-d10	104 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	95.4 %	60-130	"	"	"

pH in Soil by 9045D

pH	7.97	pH Units	1	B4J2136	10/21/2024	10/21/2024
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Table 915 metals by EPA 6020B

Arsenic	2.08	0.251	mg/kg	10	B4J1660	10/16/2024	10/17/2024
Barium	165	8.65	"	"	"	"	"
Cadmium	0.157	0.0865	"	"	"	"	"
Copper	9.67	8.65	"	"	"	"	"
Lead	9.45	0.865	"	"	"	"	"
Nickel	6.06	0.865	"	"	"	"	"
Selenium	ND	0.225	"	"	"	"	"
Silver	ND	0.0865	"	"	"	"	"
Zinc	38.8	32.0	"	"	"	"	"

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

W01(L30-30D)@4.5'-V

10/16/2024 3:22:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-08 (Soil)

pH in Soil by 9045D

pH	8.01			pH Units	1	B4J2136	10/21/2024	10/21/2024	
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Table 915 metals by EPA 6020B

Barium	169	8.84	mg/kg	10	B4J3141	10/31/2024	11/01/2024		
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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

B01(L30-30D)@9'

10/16/2024 3:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E410503-09 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B4J1718	10/17/2024	10/18/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4J1657	10/16/2024	10/17/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	131 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4J1659	10/16/2024	10/17/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	116 %	70-130	"	"	"
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Origins Laboratory

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

B01(L30-30D)@9'

10/16/2024 3:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-09 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	100 %	70-130	B4J1659	10/16/2024	10/17/2024
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4J1658	10/16/2024	10/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	105 %	60-130			"	"	"	

Origins Laboratory



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

B01(L30-30D)@9'

10/16/2024 3:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-09 (Soil)

PAH by EPA 8270E extracted via 3580A

Surrogate: Anthracene-d10	79.6 %	60-130	B4J16 58	10/16/2024	10/17/2024
Surrogate: Pyrene-d10	109 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	100 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.29	pH Units	1	B4J2136	10/21/2024	10/21/2024
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Table 915 metals by EPA 6020B

Arsenic	0.938	0.268	mg/kg	10	B4J1660	10/16/2024	10/17/2024
Barium	32.3	9.24	"	"	"	"	"
Cadmium	ND	0.0924	"	"	"	"	"
Copper	ND	9.24	"	"	"	"	"
Lead	4.30	0.924	"	"	"	"	"
Nickel	2.01	0.924	"	"	"	"	"
Selenium	ND	0.240	"	"	"	"	"
Silver	ND	0.0924	"	"	"	"	"
Zinc	ND	34.2	"	"	"	"	"

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

B01(L30-30D)@9'-V

10/16/2024 3:16:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-10 (Soil)

pH in Soil by 9045D

pH	8.31			pH Units	1	B4J2136	10/21/2024	10/21/2024	
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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

N01(L30-31D)@4.5'

10/16/2024 3:07:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-11 (Soil)

Boron (DTPA Sorbitol)

Boron	0.141	0.0998	mg/L	1	B4J1718	10/17/2024	10/18/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4J1657	10/16/2024	10/17/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	139 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4J1659	10/16/2024	10/17/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	119 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.5 %	70-130			"	"	"	

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

N01(L30-31D)@4.5'

10/16/2024 3:07:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-11 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene

102 %

70-130

B4J16
59

10/16/2024

10/17/2024

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4J1658	10/16/2024	10/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

N01(L30-31D)@4.5'

10/16/2024 3:07:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-11 (Soil)

PAH by EPA 8270E extracted via 3580A

Surrogate: Fluorene-d10	98.8 %	60-130	B4J16 58	10/16/2024	10/17/2024
Surrogate: Anthracene-d10	80.0 %	60-130	"	"	"
Surrogate: Pyrene-d10	107 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	95.0 %	60-130	"	"	"

pH in Soil by 9045D

pH	9.24	pH Units	1	B4J2136	10/21/2024	10/21/2024
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Table 915 metals by EPA 6020B

Arsenic	0.832	0.269	mg/kg	10	B4J1660	10/16/2024	10/17/2024
Barium	35.5	9.28	"	"	"	"	"
Cadmium	ND	0.0928	"	"	"	"	"
Copper	ND	9.28	"	"	"	"	"
Lead	4.87	0.928	"	"	"	"	"
Nickel	2.16	0.928	"	"	"	"	"
Selenium	ND	0.241	"	"	"	"	"
Silver	ND	0.0928	"	"	"	"	"
Zinc	ND	34.3	"	"	"	"	"

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

N01(L30-31D)@4.5'-V

10/16/2024 3:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-12 (Soil)

pH in Soil by 9045D

pH	9.34		pH Units	1	B4J2136	10/21/2024	10/21/2024
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11049 W 44th Avenue, Suite 103

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Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

E01(L30-31D)@4.5'

10/16/2024 3:03:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-13 (Soil)

Boron (DTPA Sorbitol)

Boron	0.121	0.0988	mg/L	1	B4J1718	10/17/2024	10/18/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4J1657	10/16/2024	10/17/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	133 %	50-150			"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4J1659	10/16/2024	10/17/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	115 %	70-130			"	"	"
Surrogate: Toluene-d8	101 %	70-130			"	"	"

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

E01(L30-31D)@4.5'

10/16/2024 3:03:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-13 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene

102 %

70-130

B4J16
59

10/16/2024

10/17/2024

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4J1658	10/16/2024	10/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

E01(L30-31D)@4.5'

10/16/2024 3:03:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-13 (Soil)

PAH by EPA 8270E extracted via 3580A

Surrogate: Fluorene-d10	98.4 %	60-130	B4J16 58	10/16/2024	10/17/2024
Surrogate: Anthracene-d10	82.7 %	60-130	"	"	"
Surrogate: Pyrene-d10	107 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	98.3 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.31	pH Units	1	B4J2137	10/21/2024	10/21/2024
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Table 915 metals by EPA 6020B

Arsenic	2.04	0.258	mg/kg	10	B4J1660	10/16/2024	10/17/2024
Barium	454	8.90	"	"	"	"	"
Cadmium	0.159	0.0890	"	"	"	"	"
Copper	ND	8.90	"	"	"	"	"
Lead	16.9	0.890	"	"	"	"	"
Nickel	4.69	0.890	"	"	"	"	"
Selenium	ND	0.231	"	"	"	"	"
Silver	ND	0.0890	"	"	"	"	"
Zinc	34.8	32.9	"	"	"	"	"

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

E01(L30-31D)@4.5'-V

10/16/2024 3:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-14 (Soil)

pH in Soil by 9045D

pH	8.40			pH Units	1	B4J2137	10/21/2024	10/21/2024	
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Table 915 metals by EPA 6020B

Barium	50.2	8.75	mg/kg	10	B4J3141	10/31/2024	11/01/2024		
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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

S01(L30-31D)@4.5'

10/16/2024 2:59:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-15 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0991	mg/L	1	B4J1718	10/17/2024	10/18/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4J1657	10/16/2024	10/17/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U


Surrogate: o-Terphenyl	141 %	50-150			"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4J1659	10/16/2024	10/17/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	116 %	70-130			"	"	"
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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

S01(L30-31D)@4.5'

10/16/2024 2:59:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-15 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	101 %	70-130	B4J1659	10/16/2024	10/17/2024
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4J1658	10/16/2024	10/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	99.7 %	60-130	"	"	"	"	"	

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

S01(L30-31D)@4.5'

10/16/2024 2:59:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-15 (Soil)

PAH by EPA 8270E extracted via 3580A

Surrogate: Anthracene-d10	78.3 %	60-130	B4J16 58	10/16/2024	10/17/2024
Surrogate: Pyrene-d10	110 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	95.6 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.53	pH Units	1	B4J2137	10/21/2024	10/21/2024
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Table 915 metals by EPA 6020B

Arsenic	0.662	0.245	mg/kg	10	B4J1660	10/16/2024	10/17/2024
Barium	20.3	8.44	"	"	"	"	"
Cadmium	ND	0.0844	"	"	"	"	"
Copper	ND	8.44	"	"	"	"	"
Lead	3.39	0.844	"	"	"	"	"
Nickel	1.54	0.844	"	"	"	"	"
Selenium	ND	0.220	"	"	"	"	"
Silver	ND	0.0844	"	"	"	"	"
Zinc	ND	31.2	"	"	"	"	"

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Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

S01(L30-31D)@4.5'-V

10/16/2024 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-16 (Soil)

pH in Soil by 9045D

pH	8.45		pH Units	1	B4J2137	10/21/2024	10/21/2024
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Origins Laboratory

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

W01(L30-31D)@4.5'

10/16/2024 2:52:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E410503-17 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0987	mg/L	1	B4J1718	10/17/2024	10/18/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4J1657	10/16/2024	10/17/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	99.7 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4J1659	10/16/2024	10/17/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130	"	"	"
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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

W01(L30-31D)@4.5'

10/16/2024 2:52:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-17 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	101 %	70-130	B4J16 59	10/16/2024	10/17/2024
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4J1658	10/16/2024	10/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	105 %	60-130	"	"	"	"	"	

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

W01(L30-31D)@4.5'

10/16/2024 2:52:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-17 (Soil)

PAH by EPA 8270E extracted via 3580A

Surrogate: Anthracene-d10	80.7 %	60-130	B4J16 58	10/16/2024	10/17/2024
Surrogate: Pyrene-d10	108 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	95.0 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.64	pH Units	1	B4J2137	10/21/2024	10/21/2024
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Table 915 metals by EPA 6020B

Arsenic	1.62	0.252	mg/kg	10	B4J1660	10/16/2024	10/17/2024
Barium	140	8.70	"	"	"	"	"
Cadmium	0.112	0.0870	"	"	"	"	"
Copper	ND	8.70	"	"	"	"	"
Lead	7.34	0.870	"	"	"	"	"
Nickel	3.80	0.870	"	"	"	"	"
Selenium	ND	0.226	"	"	"	"	"
Silver	ND	0.0870	"	"	"	"	"
Zinc	ND	32.2	"	"	"	"	"

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

W01(L30-31D)@4.5'-V

10/16/2024 2:53:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-18 (Soil)

pH in Soil by 9045D

pH	8.38			pH Units	1	B4J2137	10/21/2024	10/21/2024	
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Table 915 metals by EPA 6020B

Barium	27.3	9.46	mg/kg	10	B4J3141	10/31/2024	11/01/2024		
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Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

B01(L30-31D)@9'

10/16/2024 2:58:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-19 (Soil)

Boron (DTPA Sorbitol)

Boron	0.126	0.0982	mg/L	1	B4J1718	10/17/2024	10/18/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4J1657	10/16/2024	10/17/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	110 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4J1659	10/16/2024	10/17/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

B01(L30-31D)@9'

10/16/2024 2:58:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-19 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene

99.8 %

70-130

B4J16
59

10/16/2024

10/17/2024

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4J1658	10/16/2024	10/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

B01(L30-31D)@9'

10/16/2024 2:58:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-19 (Soil)

PAH by EPA 8270E extracted via 3580A

Surrogate: Fluorene-d10	103 %	60-130	B4J16 58	10/16/2024	10/17/2024
Surrogate: Anthracene-d10	74.9 %	60-130	"	"	"
Surrogate: Pyrene-d10	108 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	95.7 %	60-130	"	"	"

pH in Soil by 9045D

pH	11.1	pH Units	1	B4J2137	10/21/2024	10/21/2024
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Table 915 metals by EPA 6020B

Arsenic	1.12	0.269	mg/kg	10	B4J1660	10/16/2024	10/17/2024
Barium	44.9	9.28	"	"	"	"	"
Cadmium	ND	0.0928	"	"	"	"	"
Copper	ND	9.28	"	"	"	"	"
Lead	4.56	0.928	"	"	"	"	"
Nickel	2.35	0.928	"	"	"	"	"
Selenium	ND	0.241	"	"	"	"	"
Silver	ND	0.0928	"	"	"	"	"
Zinc	ND	34.3	"	"	"	"	"

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Wheat Ridge CO 80033

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Project Number: 09A1417184
Project: KMG - Sherwood L Fed 30-29D Wellhead

B01(L30-31D)@9'-V
10/16/2024 2:59:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E410503-20 (Soil)

pH in Soil by 9045D

pH	10.6			pH Units	1	B4J2137	10/21/2024	10/21/2024	
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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

N01(L30-32D)@4.5'

10/16/2024 2:26:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-21 (Soil)

Boron (DTPA Sorbitol)

Boron	0.279	0.0982	mg/L	1	B4J1718	10/17/2024	10/18/2024
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PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	0.004	0.002	mg/kg	1	B4J1658	10/16/2024	10/17/2024
2-Methylnaphthalene	0.004	0.002	"	"	"	"	"
Acenaphthene	ND	0.020	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	U

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

N01(L30-32D)@4.5'

10/16/2024 2:26:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-21 (Soil)

PAH by EPA 8270E extracted via 3580A

Surrogate: Fluorene-d10	97.2 %	60-130	B4J16 58	10/16/2024	10/17/2024
Surrogate: Anthracene-d10	88.9 %	60-130	"	"	"
Surrogate: Pyrene-d10	99.4 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	106 %	60-130	"	"	"

Table 915 metals by EPA 6020B

Arsenic	4.79	0.262	mg/kg	10	B4J1660	10/16/2024	10/17/2024
Barium	87.4	9.02	"	"	"	"	"
Cadmium	0.740	0.0902	"	"	"	"	"
Copper	14.6	9.02	"	"	"	"	"
Lead	67.3	0.902	"	"	"	"	"
Nickel	11.9	0.902	"	"	"	"	"
Selenium	0.892	0.235	"	"	"	"	"
Silver	0.171	0.0902	"	"	"	"	"
Zinc	55.9	33.4	"	"	"	"	"

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

N01(L30-32D)@4.5'-V

10/16/2024 2:27:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-22 (Soil)

pH in Soil by 9045D

pH	8.19		pH Units	1	B4J2137	10/21/2024	10/21/2024
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Table 915 metals by EPA 6020B

Arsenic	8.17	0.275	mg/kg	10	B4J3141	10/31/2024	11/01/2024
Cadmium	1.45	0.0950	"	"	"	"	"
Lead	46.0	0.950	"	"	"	"	"
Selenium	1.75	0.247	"	"	"	"	"

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

E01(L30-32D)@4.5'

10/16/2024 2:29:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-23 (Soil)

Boron (DTPA Sorbitol)

Boron	0.152	0.101	mg/L	1	B4J1718	10/17/2024	10/18/2024
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PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4J1658	10/16/2024	10/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

E01(L30-32D)@4.5'

10/16/2024 2:29:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-23 (Soil)

PAH by EPA 8270E extracted via 3580A

Surrogate: Fluorene-d10	94.5 %	60-130	B4J16 58	10/16/2024	10/17/2024
Surrogate: Anthracene-d10	87.0 %	60-130	"	"	"
Surrogate: Pyrene-d10	97.9 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	108 %	60-130	"	"	"

Table 915 metals by EPA 6020B

Arsenic	1.10	0.285	mg/kg	10	B4J1660	10/16/2024	10/17/2024
Barium	38.2	9.82	"	"	"	"	"
Cadmium	0.136	0.0982	"	"	"	"	"
Copper	ND	9.82	"	"	"	"	"
Lead	4.84	0.982	"	"	"	"	"
Nickel	2.62	0.982	"	"	"	"	"
Selenium	ND	0.255	"	"	"	"	"
Silver	ND	0.0982	"	"	"	"	"
Zinc	ND	36.3	"	"	"	"	"

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

E01(L30-32D)@4.5'-V

10/16/2024 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-24 (Soil)

pH in Soil by 9045D

pH	8.49			pH Units	1	B4J2137	10/21/2024	10/21/2024	
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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

S01(L30-32D)@4.5'

10/16/2024 2:33:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-25 (Soil)

Boron (DTPA Sorbitol)

Boron	0.173	0.0994	mg/L	1	B4J1718	10/17/2024	10/18/2024
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PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	0.004	0.002	mg/kg	1	B4J1658	10/16/2024	10/17/2024
2-Methylnaphthalene	0.003	0.002	"	"	"	"	"
Acenaphthene	ND	0.020	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	U

Origins Laboratory



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

S01(L30-32D)@4.5'

10/16/2024 2:33:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-25 (Soil)

PAH by EPA 8270E extracted via 3580A

Surrogate: Fluorene-d10	99.4 %	60-130	B4J16 58	10/16/2024	10/17/2024
Surrogate: Anthracene-d10	88.2 %	60-130	"	"	"
Surrogate: Pyrene-d10	88.8 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	106 %	60-130	"	"	"

Table 915 metals by EPA 6020B

Arsenic	3.05	0.249	mg/kg	10	B4J1660	10/16/2024	10/17/2024
Barium	237	8.58	"	"	"	"	"
Cadmium	0.300	0.0858	"	"	"	"	"
Copper	14.9	8.58	"	"	"	"	"
Lead	16.9	0.858	"	"	"	"	"
Nickel	8.22	0.858	"	"	"	"	"
Selenium	0.259	0.223	"	"	"	"	"
Silver	0.0866	0.0858	"	"	"	"	"
Zinc	75.2	31.7	"	"	"	"	"

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

S01(L30-32D)@4.5'-V

10/16/2024 2:34:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-26 (Soil)

pH in Soil by 9045D

pH	8.29			pH Units	1	B4J2137	10/21/2024	10/21/2024	
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Table 915 metals by EPA 6020B

Barium	252	9.72	mg/kg	10	B4J3141	10/31/2024	11/01/2024		
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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

W01(L30-32D)@4.5'

10/16/2024 2:39:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-27 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0992	mg/L	1	B4J1718	10/17/2024	10/18/2024
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PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4J1658	10/16/2024	10/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

W01(L30-32D)@4.5'

10/16/2024 2:39:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-27 (Soil)

PAH by EPA 8270E extracted via 3580A

Surrogate: Fluorene-d10	97.3 %	60-130	B4J16 58	10/16/2024	10/17/2024
Surrogate: Anthracene-d10	83.7 %	60-130	"	"	"
Surrogate: Pyrene-d10	99.6 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130	"	"	"

Table 915 metals by EPA 6020B

Arsenic	1.14	0.263	mg/kg	10	B4J1660	10/16/2024	10/17/2024
Barium	38.5	9.08	"	"	"	"	"
Cadmium	ND	0.0908	"	"	"	"	"
Copper	ND	9.08	"	"	"	"	"
Lead	6.86	0.908	"	"	"	"	"
Nickel	2.86	0.908	"	"	"	"	"
Selenium	ND	0.236	"	"	"	"	"
Silver	ND	0.0908	"	"	"	"	"
Zinc	ND	33.6	"	"	"	"	"

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

W01(L30-32D)@4.5'-V

10/16/2024 2:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-28 (Soil)

pH in Soil by 9045D

pH	8.69		pH Units	1	B4J2137	10/21/2024	10/21/2024
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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

B01(L30-32D)@9'

10/16/2024 2:47:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-29 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0994	mg/L	1	B4J1718	10/17/2024	10/18/2024
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PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4J1658	10/16/2024	10/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

B01(L30-32D)@9'

10/16/2024 2:47:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-29 (Soil)

PAH by EPA 8270E extracted via 3580A

Surrogate: Fluorene-d10	96.3 %	60-130	B4J16 58	10/16/2024	10/17/2024
Surrogate: Anthracene-d10	85.5 %	60-130	"	"	"
Surrogate: Pyrene-d10	102 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	103 %	60-130	"	"	"

Table 915 metals by EPA 6020B

Arsenic	0.590	0.264	mg/kg	10	B4J1660	10/16/2024	10/17/2024
Barium	28.2	9.12	"	"	"	"	"
Cadmium	ND	0.0912	"	"	"	"	"
Copper	ND	9.12	"	"	"	"	"
Lead	3.36	0.912	"	"	"	"	"
Nickel	1.71	0.912	"	"	"	"	"
Selenium	ND	0.237	"	"	"	"	"
Silver	ND	0.0912	"	"	"	"	"
Zinc	ND	33.7	"	"	"	"	"

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

B01(L30-32D)@9'-V

10/16/2024 2:48:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-30 (Soil)

pH in Soil by 9045D

pH	9.14		pH Units	1	B4J2137	10/21/2024	10/21/2024
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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

FL03/FL04-N02@3'

10/16/2024 3:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E410503-31 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4J1718	10/17/2024	10/18/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4J1657	10/16/2024	10/17/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	107 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B4J1659	10/16/2024	10/17/2024	U
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Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4J1658	10/16/2024	10/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U

Origins Laboratory

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

FL03/FL04-N02@3'

10/16/2024 3:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-31 (Soil)

PAH by EPA 8270E extracted via 3580A

Anthracene	ND	0.020	mg/kg	1	B4J1658	10/16/2024	10/17/2024	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	95.6 %	60-130	"	"	"
Surrogate: Anthracene-d10	85.5 %	60-130	"	"	"
Surrogate: Pyrene-d10	103 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	109 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.28	pH Units	1	B4J2137	10/21/2024	10/21/2024
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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

FL03/FL04-N02@3'

10/16/2024 3:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-31 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.21	0.275	mg/kg	10	B4J1660	10/16/2024	10/17/2024
Barium	31.4	9.48	"	"	"	"	"
Cadmium	ND	0.0948	"	"	"	"	"
Copper	ND	9.48	"	"	"	"	"
Lead	5.46	0.948	"	"	"	"	"
Nickel	2.64	0.948	"	"	"	"	"
Selenium	ND	0.246	"	"	"	"	"
Silver	ND	0.0948	"	"	"	"	"
Zinc	ND	35.1	"	"	"	"	"

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

FL03/FL04-N02@3'-V

10/16/2024 3:46:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-32 (Soil)

pH in Soil by 9045D

pH	8.25		pH Units	1	B4J2137	10/21/2024	10/21/2024
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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

FL03/FL04-E02@3'

10/16/2024 3:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E410503-33 (Soil)

Boron (DTPA Sorbitol)

Boron	0.133	0.0994	mg/L	1	B4J1718	10/17/2024	10/18/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4J1657	10/16/2024	10/17/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	111 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B4J1659	10/16/2024	10/17/2024	U
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Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.6 %	70-130			"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4J1658	10/16/2024	10/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

FL03/FL04-E02@3'

10/16/2024 3:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-33 (Soil)

PAH by EPA 8270E extracted via 3580A

Anthracene	ND	0.020	mg/kg	1	B4J1658	10/16/2024	10/17/2024	U
Benzo (a) anthracene	0.037	0.005	"	"	"	"	"	
Benzo (a) pyrene	0.038	0.020	"	"	"	"	"	
Benzo (b) fluoranthene	0.040	0.020	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	0.046	0.020	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	0.101	0.020	"	"	"	"	"	
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	0.025	0.020	"	"	"	"	"	
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	0.090	0.020	"	"	"	"	"	

Surrogate: Fluorene-d10	95.4 %	60-130	"	"	"
Surrogate: Anthracene-d10	84.6 %	60-130	"	"	"
Surrogate: Pyrene-d10	96.7 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	99.5 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.13	pH Units	1	B4J2137	10/21/2024	10/21/2024
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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

FL03/FL04-E02@3'

10/16/2024 3:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-33 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.35	0.267	mg/kg	10	B4J1660	10/16/2024	10/17/2024
Barium	61.4	9.20	"	"	"	"	"
Cadmium	0.465	0.0920	"	"	"	"	"
Copper	23.8	9.20	"	"	"	"	"
Lead	20.6	0.920	"	"	"	"	"
Nickel	4.75	0.920	"	"	"	"	"
Selenium	ND	0.239	"	"	"	"	"
Silver	0.259	0.0920	"	"	"	"	"
Zinc	67.7	34.0	"	"	"	"	"

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

FL03/FL04-E02@3'-V

10/16/2024 3:51:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-34 (Soil)

pH in Soil by 9045D

pH	8.12			pH Units	1	B4J2137	10/21/2024	10/21/2024	
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Origins Laboratory

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

FL03/FL04-S02@3'

10/16/2024 3:54:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-35 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B4J1718	10/17/2024	10/18/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4J1657	10/16/2024	10/17/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	101 %	50-150			"	"	"
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GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B4J1659	10/16/2024	10/17/2024	U
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Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"
Surrogate: Toluene-d8	102 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4J1658	10/16/2024	10/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

FL03/FL04-S02@3'

10/16/2024 3:54:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-35 (Soil)

PAH by EPA 8270E extracted via 3580A

Anthracene	ND	0.020	mg/kg	1	B4J1658	10/16/2024	10/17/2024	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	97.6 %	60-130	"	"	"
Surrogate: Anthracene-d10	84.3 %	60-130	"	"	"
Surrogate: Pyrene-d10	104 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.18	pH Units	1	B4J2137	10/21/2024	10/22/2024
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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

FL03/FL04-S02@3'

10/16/2024 3:54:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-35 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.24	0.263	mg/kg	10	B4J1660	10/16/2024	10/17/2024
Barium	41.0	9.05	"	"	"	"	"
Cadmium	0.109	0.0905	"	"	"	"	"
Copper	ND	9.05	"	"	"	"	"
Lead	7.26	0.905	"	"	"	"	"
Nickel	2.92	0.905	"	"	"	"	"
Selenium	ND	0.235	"	"	"	"	"
Silver	ND	0.0905	"	"	"	"	"
Zinc	ND	33.5	"	"	"	"	"

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

FL03/FL04-S02@3'-V

10/16/2024 3:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-36 (Soil)

pH in Soil by 9045D

pH	8.21		pH Units	1	B4J2137	10/21/2024	10/22/2024
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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

GW-FL03/FL04@5'

10/16/2024 4:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-37 (Water)

Anions by IC 300.0

Chloride	283		31.2	mg/L	125	B4J1707	10/17/2024	10/17/2024	
Sulfate	319		31.2	"	"	"	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B4J1638	10/16/2024	10/16/2024	U
1,3,5-Trimethylbenzene	ND		2.00	"	"	"	"	"	U
Benzene	ND		1.00	"	"	"	"	"	U
Ethylbenzene	ND		1.00	"	"	"	"	"	U
Naphthalene	ND		2.00	"	"	"	"	"	U
Toluene	ND		1.00	"	"	"	"	"	U
Xylenes, total	ND		1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.8 %		70-130			"	"	"	
Surrogate: Toluene-d8	99.2 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.0 %		70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1470		5.00	mg/L	1	B4J1702	10/17/2024	10/18/2024	
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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

FL03/FL04-B01@6'

10/16/2024 3:58:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E410503-38 (Soil)

Boron (DTPA Sorbitol)

Boron	0.113	0.100	mg/L	1	B4J1718	10/17/2024	10/18/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4J1657	10/16/2024	10/17/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	95.7 %	50-150			"	"	"
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GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B4J1659	10/16/2024	10/17/2024	U
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Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"
Surrogate: Toluene-d8	102 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	0.002	0.002	mg/kg	1	B4J1658	10/16/2024	10/17/2024
2-Methylnaphthalene	0.003	0.002	"	"	"	"	"
Acenaphthene	0.032	0.020	"	"	"	"	"

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

FL03/FL04-B01@6'

10/16/2024 3:58:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-38 (Soil)

PAH by EPA 8270E extracted via 3580A

Anthracene	0.075	0.020	mg/kg	1	B4J1658	10/16/2024	10/17/2024	
Benzo (a) anthracene	0.107	0.005	"	"	"	"	"	
Benzo (a) pyrene	0.088	0.020	"	"	"	"	"	
Benzo (b) fluoranthene	0.111	0.020	"	"	"	"	"	
Benzo (k) fluoranthene	0.047	0.020	"	"	"	"	"	
Chrysene	0.118	0.020	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	0.391	0.020	"	"	"	"	"	
Fluorene	0.040	0.020	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.059	0.020	"	"	"	"	"	
Naphthalene	0.010	0.002	"	"	"	"	"	
Pyrene	0.306	0.020	"	"	"	"	"	

Surrogate: Fluorene-d10	96.7 %	60-130	"	"	"
Surrogate: Anthracene-d10	86.0 %	60-130	"	"	"
Surrogate: Pyrene-d10	98.3 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	107 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.29	pH Units	1	B4J2137	10/21/2024	10/22/2024
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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

FL03/FL04-B01@6'

10/16/2024 3:58:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-38 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.01	0.259	mg/kg	10	B4J1660	10/16/2024	10/17/2024
Barium	44.0	8.92	"	"	"	"	"
Cadmium	0.294	0.0892	"	"	"	"	"
Copper	14.5	8.92	"	"	"	"	"
Lead	14.1	0.892	"	"	"	"	"
Nickel	2.97	0.892	"	"	"	"	"
Selenium	ND	0.232	"	"	"	"	"
Silver	0.202	0.0892	"	"	"	"	"
Zinc	42.2	33.0	"	"	"	"	"

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Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

FL03/FL04-B01@6'-V

10/16/2024 3:59:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E410503-39 (Soil)

pH in Soil by 9045D

pH	8.01		pH Units	1	B4J2138	10/21/2024	10/22/2024
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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

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 B4J1638 - EPA 5030B (Water)

Blank (B4J1638-BLK1)

Prepared: 10/16/2024 Analyzed: 10/16/2024

1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		93.2	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.2	70-130			

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Jordan A. Bynon For Jen Pellegrini, Project Manager



Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

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 B4J1638 - EPA 5030B (Water)

LCS (B4J1638-BS1)

Prepared: 10/16/2024 Analyzed: 10/16/2024

1,2,4-Trimethylbenzene	51.5	2.00	ug/L	50.0		103	70-130			
1,3,5-Trimethylbenzene	53.1	2.00	"	50.0		106	70-130			
Benzene	48.0	1.00	"	50.0		96.0	70-130			
Ethylbenzene	58.5	1.00	"	50.0		117	70-130			
m,p-Xylene	107	2.00	"	100		107	70-130			
Naphthalene	47.0	2.00	"	50.0		94.0	70-130			
o-Xylene	53.3	1.00	"	50.0		107	70-130			
Toluene	50.5	1.00	"	50.0		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.2	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	70-130			

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Jordan A. Bynon For Jen Pellegrini, Project Manager

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

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 B4J1638 - EPA 5030B (Water)

Matrix Spike (B4J1638-MS1)		Source: E410463-01			Prepared: 10/16/2024 Analyzed: 10/16/2024					
1,2,4-Trimethylbenzene	37.2	2.00	ug/L	50.0	0.630	73.2	70-130			
1,3,5-Trimethylbenzene	37.3	2.00	"	50.0	0.540	73.5	70-130			
Benzene	23.5	1.00	"	50.0	0.460	46.1	70-130			QM-07
Ethylbenzene	36.4	1.00	"	50.0	ND	72.8	70-130			
m,p-Xylene	66.3	2.00	"	100	3.34	63.0	70-130			QM-07
Naphthalene	41.4	2.00	"	50.0	1.15	80.4	70-130			
o-Xylene	33.8	1.00	"	50.0	0.580	66.4	70-130			QM-07
Toluene	28.6	1.00	"	50.0	0.160	56.9	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.5	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		109	70-130			

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

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 B4J1638 - EPA 5030B (Water)

Matrix Spike Dup (B4J1638-MSD1)		Source: E410463-01			Prepared: 10/16/2024 Analyzed: 10/16/2024					
1,2,4-Trimethylbenzene	46.8	2.00	ug/L	50.0	0.630	92.4	70-130	22.8	20	QR-02
1,3,5-Trimethylbenzene	48.7	2.00	"	50.0	0.540	96.4	70-130	26.7	20	QR-02
Benzene	44.2	1.00	"	50.0	0.460	87.4	70-130	61.0	20	QR-02
Ethylbenzene	51.5	1.00	"	50.0	ND	103	70-130	34.3	20	QR-02
m,p-Xylene	98.4	2.00	"	100	3.34	95.1	70-130	39.0	20	QR-02
Naphthalene	50.7	2.00	"	50.0	1.15	99.1	70-130	20.3	20	QR-02
o-Xylene	49.6	1.00	"	50.0	0.580	98.0	70-130	37.9	20	QR-02
Toluene	46.6	1.00	"	50.0	0.160	93.0	70-130	48.0	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.4	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		109	70-130			

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

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 B4J1657 - EPA 3550B

Blank (B4J1657-BLK1)

Prepared: 10/16/2024 Analyzed: 10/17/2024

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

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Jordan A. Bynon For Jen Pellegrini, Project Manager



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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

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 B4J1657 - EPA 3550B

LCS (B4J1657-BS1)

Prepared: 10/16/2024 Analyzed: 10/17/2024

Diesel (C10-C28)	1300	50.0	mg/kg	1000		130	70-130			
Residual Range Organics (C28-C40)	1290	200	"	1000		129	70-130			
Surrogate: o-Terphenyl	67		"	49.8		136	50-150			

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Jordan A. Bynon For Jen Pellegrini, Project Manager



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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

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 B4J1657 - EPA 3550B

Matrix Spike (B4J1657-MS1)		Source: E410503-01			Prepared: 10/16/2024 Analyzed: 10/17/2024					
Diesel (C10-C28)	1360	50.0	mg/kg	1000	ND	136	70-130			QM-07
Residual Range Organics (C28-C40)	1390	200	"	1000	ND	139	70-130			QM-07
Surrogate: o-Terphenyl	67		"	49.8		134	50-150			

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Jordan A. Bynon For Jen Pellegrini, Project Manager



Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

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 B4J1657 - EPA 3550B

Matrix Spike Dup (B4J1657-MSD1)		Source: E410503-01			Prepared: 10/16/2024 Analyzed: 10/17/2024					
Diesel (C10-C28)	1480	50.0	mg/kg	1000	ND	148	70-130	8.34	35	QM-07
Residual Range Organics (C28-C40)	1530	200	"	1000	ND	153	70-130	9.60	35	QM-07
Surrogate: o-Terphenyl	70		"	49.8		142	50-150			

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Jeremy Espinoza

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Project: KMG - Sherwood L Fed 30-29D Wellhead

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
Batch B4J1659 - EPA 5030 (soil)										
Blank (B4J1659-BLK1)					Prepared: 10/16/2024 Analyzed: 10/16/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

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 B4J1659 - EPA 5030 (soil)

LCS (B4J1659-BS1)

Prepared: 10/16/2024 Analyzed: 10/16/2024

1,2,4-Trimethylbenzene	0.113	0.00200	mg/kg	0.100		113	70-130			
1,3,5-Trimethylbenzene	0.114	0.00200	"	0.100		114	70-130			
Benzene	0.0976	0.00200	"	0.100		97.6	70-130			
Ethylbenzene	0.108	0.00200	"	0.100		108	70-130			
Naphthalene	0.110	0.00380	"	0.100		110	70-130			
Toluene	0.0993	0.00200	"	0.100		99.3	70-130			
o-Xylene	0.112	0.00200	"	0.100		112	70-130			
m,p-Xylene	0.230	0.00400	"	0.200		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.1	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

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
Batch B4J1659 - EPA 5030 (soil)										
Matrix Spike (B4J1659-MS1)		Source: E410503-01			Prepared: 10/16/2024 Analyzed: 10/17/2024					
1,2,4-Trimethylbenzene	0.0648	0.00200	mg/kg	0.100	ND	64.8	70-130			QM-07
1,3,5-Trimethylbenzene	0.0649	0.00200	"	0.100	ND	64.9	70-130			QM-07
Benzene	0.0663	0.00200	"	0.100	ND	66.3	70-130			QM-07
Ethylbenzene	0.0707	0.00200	"	0.100	ND	70.7	70-130			
Naphthalene	0.0587	0.00380	"	0.100	ND	58.7	70-130			QM-07
Toluene	0.0644	0.00200	"	0.100	ND	64.4	70-130			QM-07
o-Xylene	0.0760	0.00200	"	0.100	ND	76.0	70-130			
m,p-Xylene	0.143	0.00400	"	0.200	ND	71.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		117	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		111	70-130			

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Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

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
Batch B4J1659 - EPA 5030 (soil)										
Matrix Spike Dup (B4J1659-MSD1)			Source: E410503-01		Prepared: 10/16/2024 Analyzed: 10/17/2024					
1,2,4-Trimethylbenzene	0.0505	0.00200	mg/kg	0.100	ND	50.5	70-130	24.8	20	QM-07
1,3,5-Trimethylbenzene	0.0502	0.00200	"	0.100	ND	50.2	70-130	25.5	20	QM-07
Benzene	0.0663	0.00200	"	0.100	ND	66.3	70-130	0.0603	20	QM-07
Ethylbenzene	0.0612	0.00200	"	0.100	ND	61.2	70-130	14.5	20	QM-07
Naphthalene	0.0488	0.00380	"	0.100	ND	48.8	70-130	18.4	20	QM-07
Toluene	0.0610	0.00200	"	0.100	ND	61.0	70-130	5.49	20	QM-07
o-Xylene	0.0676	0.00200	"	0.100	ND	67.6	70-130	11.8	20	QM-07
m,p-Xylene	0.123	0.00400	"	0.200	ND	61.5	70-130	15.1	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		116	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		109	70-130			

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

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 B4J1660 - EPA 3050B

Blank (B4J1660-BLK1)

Prepared: 10/16/2024 Analyzed: 10/17/2024

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 (B4J1660-BS1)

Prepared: 10/16/2024 Analyzed: 10/17/2024

Arsenic	5.24	0.290	mg/kg	5.00	105	80-120
Barium	565	10.0	"	500	113	80-120
Cadmium	5.71	0.100	"	5.00	114	80-120
Copper	55.1	10.0	"	50.0	110	80-120
Lead	5.50	1.00	"	5.00	110	80-120
Nickel	5.52	1.00	"	5.00	110	80-120
Selenium	5.54	0.260	"	5.00	111	80-120
Silver	5.75	0.100	"	5.00	115	80-120
Zinc	53.5	37.0	"	50.0	107	80-120

Matrix Spike (B4J1660-MS1)

Source: E410503-35

Prepared: 10/16/2024 Analyzed: 10/17/2024

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Jeremy Espinoza
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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 B4J1660 - EPA 3050B

Matrix Spike (B4J1660-MS1)		Source: E410503-35			Prepared: 10/16/2024 Analyzed: 10/17/2024					
Arsenic	6.29	0.280	mg/kg	4.83	1.24	105	75-125			
Barium	567	9.67	"	483	41.0	109	75-125			
Cadmium	5.53	0.0967	"	4.83	0.109	112	75-125			
Copper	58.1	9.67	"	48.3	6.25	107	75-125			
Lead	11.9	0.967	"	4.83	7.26	95.8	75-125			
Nickel	8.06	0.967	"	4.83	2.92	106	75-125			
Selenium	5.19	0.251	"	4.83	ND	107	75-125			
Silver	5.45	0.0967	"	4.83	0.0679	111	75-125			
Zinc	72.3	35.8	"	48.3	22.5	103	75-125			

Matrix Spike Dup (B4J1660-MSD1)		Source: E410503-35			Prepared: 10/16/2024 Analyzed: 10/17/2024					
Arsenic	7.18	0.282	mg/kg	4.86	1.24	122	75-125	13.1	20	
Barium	582	9.72	"	486	41.0	111	75-125	2.62	20	
Cadmium	5.47	0.0972	"	4.86	0.109	110	75-125	1.11	20	
Copper	62.6	9.72	"	48.6	6.25	116	75-125	7.51	20	
Lead	27.9	0.972	"	4.86	7.26	425	75-125	80.5	20	QM-07, QR-DUP
Nickel	8.25	0.972	"	4.86	2.92	109	75-125	2.32	20	
Selenium	5.24	0.253	"	4.86	ND	108	75-125	0.916	20	
Silver	5.64	0.0972	"	4.86	0.0679	115	75-125	3.45	20	
Zinc	80.9	36.0	"	48.6	22.5	120	75-125	11.3	20	

Batch B4J3141 - EPA 3050B

Blank (B4J3141-BLK1)		Prepared: 10/31/2024 Analyzed: 11/01/2024								
Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							

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Jeremy Espinoza
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Project: KMG - Sherwood L Fed 30-29D Wellhead

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 B4J3141 - EPA 3050B

Blank (B4J3141-BLK1)

Prepared: 10/31/2024 Analyzed: 11/01/2024

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

LCS (B4J3141-BS1)

Prepared: 10/31/2024 Analyzed: 11/01/2024

Arsenic	5.51	0.290	mg/kg	5.00	110	80-120
Barium	535	10.0	"	500	107	80-120
Cadmium	5.61	0.100	"	5.00	112	80-120
Copper	58.4	10.0	"	50.0	117	80-120
Lead	5.49	1.00	"	5.00	110	80-120
Nickel	5.82	1.00	"	5.00	116	80-120
Selenium	5.49	0.260	"	5.00	110	80-120
Silver	5.50	0.100	"	5.00	110	80-120
Zinc	55.6	37.0	"	50.0	111	80-120

Matrix Spike (B4J3141-MS1)

Source: E4J0012-02

Prepared: 10/31/2024 Analyzed: 11/01/2024

Arsenic	10.9	0.252	mg/kg	4.35	5.91	115	75-125
Barium	537	8.70	"	435	60.1	110	75-125
Cadmium	5.19	0.0870	"	4.35	0.0893	117	75-125
Copper	58.1	8.70	"	43.5	7.51	116	75-125
Lead	13.8	0.870	"	4.35	8.79	115	75-125
Nickel	15.2	0.870	"	4.35	9.69	127	75-125
Selenium	4.76	0.226	"	4.35	0.125	107	75-125
Silver	4.94	0.0870	"	4.35	0.0291	113	75-125

QM-07

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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
Batch B4J3141 - EPA 3050B										
Matrix Spike (B4J3141-MS1)		Source: E4J0012-02			Prepared: 10/31/2024 Analyzed: 11/01/2024					
Zinc	86.9	32.2	mg/kg	43.5	39.7	109	75-125			
Matrix Spike Dup (B4J3141-MSD1)		Source: E4J0012-02			Prepared: 10/31/2024 Analyzed: 11/01/2024					
Arsenic	11.4	0.264	mg/kg	4.55	5.91	121	75-125	4.31	20	
Barium	551	9.10	"	455	60.1	108	75-125	2.60	20	
Cadmium	5.38	0.0910	"	4.55	0.0893	116	75-125	3.56	20	
Copper	61.0	9.10	"	45.5	7.51	117	75-125	4.86	20	
Lead	13.5	0.910	"	4.55	8.79	104	75-125	1.95	20	
Nickel	15.5	0.910	"	4.55	9.69	128	75-125	2.14	20	QM-07
Selenium	4.74	0.237	"	4.55	0.125	101	75-125	0.444	20	
Silver	5.17	0.0910	"	4.55	0.0291	113	75-125	4.68	20	
Zinc	91.3	33.7	"	45.5	39.7	113	75-125	4.92	20	

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Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D 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 B4J1658 - EPA 3580

Blank (B4J1658-BLK1)

Prepared: 10/16/2024 Analyzed: 10/17/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	170		"	200		83.8	60-130			
Surrogate: Pyrene-d10	230		"	200		114	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		94.2	60-130			

LCS (B4J1658-BS1)

Prepared: 10/16/2024 Analyzed: 10/17/2024

1-Methylnaphthalene	0.160	0.002	mg/kg	0.200		80.2	70-130			
2-Methylnaphthalene	0.163	0.002	"	0.200		81.5	70-130			
Acenaphthene	0.169	0.020	"	0.200		84.4	70-130			
Anthracene	0.169	0.020	"	0.200		84.6	70-130			

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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 B4J1658 - EPA 3580

LCS (B4J1658-BS1)

Prepared: 10/16/2024 Analyzed: 10/17/2024

Benzo (a) anthracene	0.174	0.005	mg/kg	0.200		86.8	70-130
Benzo (a) pyrene	0.178	0.020	"	0.200		88.8	70-130
Benzo (b) fluoranthene	0.199	0.020	"	0.200		99.7	70-130
Benzo (g,h,i) perylene	0.172	0.020	"	0.200		85.8	70-130
Benzo (k) fluoranthene	0.187	0.020	"	0.200		93.4	70-130
Chrysene	0.173	0.020	"	0.200		86.4	70-130
Dibenz (a,h) anthracene	0.175	0.020	"	0.200		87.5	70-130
Fluoranthene	0.183	0.020	"	0.200		91.3	70-130
Fluorene	0.182	0.020	"	0.200		91.0	70-130
Indeno (1,2,3-cd) pyrene	0.204	0.020	"	0.200		102	70-130
Naphthalene	0.167	0.002	"	0.200		83.3	70-130
Phenanthrene	0.169	0.020	"	0.200		84.5	70-130
Pyrene	0.208	0.020	"	0.200		104	70-130
Surrogate: Fluorene-d10	210		ug/kg	200		107	60-130
Surrogate: Anthracene-d10	170		"	200		85.0	60-130
Surrogate: Pyrene-d10	210		"	200		107	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130

Matrix Spike (B4J1658-MS1)

Source: E410503-01

Prepared: 10/16/2024 Analyzed: 10/17/2024

1-Methylnaphthalene	0.190	0.002	mg/kg	0.200	0.003	93.6	70-130
2-Methylnaphthalene	0.193	0.002	"	0.200	0.002	95.2	70-130
Acenaphthene	0.195	0.020	"	0.200	0.002	96.6	70-130
Anthracene	0.187	0.020	"	0.200	ND	93.6	70-130
Benzo (a) anthracene	0.204	0.005	"	0.200	0.003	100	70-130
Benzo (a) pyrene	0.196	0.020	"	0.200	0.007	94.7	70-130
Benzo (b) fluoranthene	0.216	0.020	"	0.200	0.007	105	70-130
Benzo (g,h,i) perylene	0.194	0.020	"	0.200	0.007	93.5	70-130

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Project: KMG - Sherwood L Fed 30-29D 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 B4J1658 - EPA 3580

Matrix Spike (B4J1658-MS1)		Source: E410503-01			Prepared: 10/16/2024 Analyzed: 10/17/2024					
Benzo (k) fluoranthene	0.220	0.020	mg/kg	0.200	0.003	109	70-130			
Chrysene	0.222	0.020	"	0.200	0.007	107	70-130			
Dibenz (a,h) anthracene	0.191	0.020	"	0.200	0.002	94.5	70-130			
Fluoranthene	0.219	0.020	"	0.200	0.005	107	70-130			
Fluorene	0.200	0.020	"	0.200	0.0008	99.7	70-130			
Indeno (1,2,3-cd) pyrene	0.228	0.020	"	0.200	0.005	112	70-130			
Naphthalene	0.207	0.002	"	0.200	0.0009	103	70-130			
Phenanthrene	0.199	0.020	"	0.200	0.005	97.2	70-130			
Pyrene	0.241	0.020	"	0.200	0.008	117	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	170		"	200		83.3	60-130			
Surrogate: Pyrene-d10	220		"	200		110	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		94.7	60-130			

Matrix Spike Dup (B4J1658-MSD1)		Source: E410503-01			Prepared: 10/16/2024 Analyzed: 10/17/2024					
1-Methylnaphthalene	0.176	0.002	mg/kg	0.200	0.003	86.5	70-130	7.74	20	
2-Methylnaphthalene	0.177	0.002	"	0.200	0.002	87.5	70-130	8.34	20	
Acenaphthene	0.181	0.020	"	0.200	0.002	89.9	70-130	7.16	20	
Anthracene	0.162	0.020	"	0.200	ND	81.1	70-130	14.4	20	
Benzo (a) anthracene	0.202	0.005	"	0.200	0.003	99.3	70-130	1.02	20	
Benzo (a) pyrene	0.181	0.020	"	0.200	0.007	87.2	70-130	7.92	20	
Benzo (b) fluoranthene	0.226	0.020	"	0.200	0.007	109	70-130	4.09	20	
Benzo (g,h,i) perylene	0.196	0.020	"	0.200	0.007	94.3	70-130	0.896	20	
Benzo (k) fluoranthene	0.184	0.020	"	0.200	0.003	90.6	70-130	18.0	20	
Chrysene	0.205	0.020	"	0.200	0.007	99.0	70-130	7.67	20	
Dibenz (a,h) anthracene	0.191	0.020	"	0.200	0.002	94.6	70-130	0.0880	20	
Fluoranthene	0.196	0.020	"	0.200	0.005	95.6	70-130	10.9	20	

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D 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 B4J1658 - EPA 3580

Matrix Spike Dup (B4J1658-MSD1)		Source: E410503-01			Prepared: 10/16/2024 Analyzed: 10/17/2024					
Fluorene	0.189	0.020	mg/kg	0.200	0.0008	94.3	70-130	5.58	20	
Indeno (1,2,3-cd) pyrene	0.236	0.020	"	0.200	0.005	116	70-130	3.59	20	
Naphthalene	0.177	0.002	"	0.200	0.0009	88.0	70-130	15.5	20	
Phenanthrene	0.177	0.020	"	0.200	0.005	85.8	70-130	12.1	20	
Pyrene	0.198	0.020	"	0.200	0.008	95.0	70-130	19.7	20	
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	170		"	200		84.0	60-130			
Surrogate: Pyrene-d10	190		"	200		94.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.7	60-130			

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Jeremy Espinoza
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Project: KMG - Sherwood L Fed 30-29D Wellhead

Classical Chemistry Parameters - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4J1702 - NO PREP										
Blank (B4J1702-BLK1)					Prepared: 10/17/2024 Analyzed: 10/18/2024					
Total Dissolved Solids	ND	5.00	mg/L							
LCS (B4J1702-BS1)					Prepared: 10/17/2024 Analyzed: 10/18/2024					
Total Dissolved Solids	1020	5.00	mg/L	1000		102	90-110			
Duplicate (B4J1702-DUP1)					Source: E410467-01 Prepared: 10/17/2024 Analyzed: 10/18/2024					
Total Dissolved Solids	3520	5.00	mg/L		3430			2.53	10	
Batch B4J1707 - Filter .45um non acidified										
Blank (B4J1707-BLK1)					Prepared: 10/17/2024 Analyzed: 10/17/2024					
Chloride	ND	0.250	mg/L							
Sulfate	ND	0.250	"							
LCS (B4J1707-BS1)					Prepared: 10/17/2024 Analyzed: 10/17/2024					
Chloride	4.02	0.250	mg/L	4.00		100	90-110			
Sulfate	4.06	0.250	"	4.00		102	90-110			
Matrix Spike (B4J1707-MS1)					Source: E410503-37 Prepared: 10/17/2024 Analyzed: 10/18/2024					
Chloride	773		mg/L	500	283	98.0	90-110			
Sulfate	817		"	500	319	99.6	90-110			
Matrix Spike Dup (B4J1707-MSD1)					Source: E410503-37 Prepared: 10/17/2024 Analyzed: 10/18/2024					
Chloride	791		mg/L	500	283	102	90-110	2.31	5	
Sulfate	831		"	500	319	102	90-110	1.62	5	

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Classical Chemistry Parameters - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4J1717 - DTPA Sorbitol Preparation										
Blank (B4J1717-BLK1)					Prepared: 10/17/2024 Analyzed: 10/18/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4J1717-DUP1)					Source: E410501-07 Prepared: 10/17/2024 Analyzed: 10/18/2024					
Boron	0.385	0.101	mg/L		0.380			1.32	50	
Batch B4J1718 - DTPA Sorbitol Preparation										
Blank (B4J1718-BLK1)					Prepared: 10/17/2024 Analyzed: 10/18/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4J1718-DUP1)					Source: E410503-07 Prepared: 10/17/2024 Analyzed: 10/18/2024					
Boron	0.189	0.102	mg/L		0.187			0.916	50	

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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
Batch B4J2136 - Saturated Paste pH/EC										
Duplicate (B4J2136-DUP1)		Source: E410497-02			Prepared: 10/21/2024 Analyzed: 10/21/2024					
pH	8.13		pH Units		8.14			0.123	25	
Batch B4J2137 - Saturated Paste pH/EC										
Duplicate (B4J2137-DUP1)		Source: E410503-13			Prepared: 10/21/2024 Analyzed: 10/21/2024					
pH	8.39		pH Units		8.31			0.958	25	
Batch B4J2138 - Saturated Paste pH/EC										
Duplicate (B4J2138-DUP1)		Source: E410503-39			Prepared: 10/21/2024 Analyzed: 10/22/2024					
pH	7.96		pH Units		8.01			0.626	25	

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Project Number: 09A1417184

Project: KMG - Sherwood L Fed 30-29D Wellhead

Notes and Definitions

U Sample is Non-Detect.

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

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

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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