



Ensolum

May 09, 2025

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Herman L 32-14 Wellhead Project Number - 09A14171096

Attached are your analytical results for KMG - Herman L 32-14 Wellhead received by Origins Laboratory April 25, 2025. This project is associated with Origins project number E5D0711-01.

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: 09A14171096
Project: KMG - Herman L 32-14 Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW-FL01@3'	E5D0711-01	Water	April 24, 2025 13:35	04/25/2025 08:09
GW-FL02@3'	E5D0711-02	Water	April 24, 2025 14:05	04/25/2025 08:09
GW-FL03@3'	E5D0711-03	Water	April 24, 2025 14:35	04/25/2025 08:09
GW-FL04@3'	E5D0711-04	Water	April 24, 2025 14:55	04/25/2025 08:09
FL01@3'	E5D0711-05	Soil	April 24, 2025 13:30	04/25/2025 08:09
FL02@3'	E5D0711-06	Soil	April 24, 2025 14:00	04/25/2025 08:09
FL03@3'	E5D0711-07	Soil	April 24, 2025 14:30	04/25/2025 08:09
FL04@3'	E5D0711-08	Soil	April 24, 2025 14:50	04/25/2025 08:09
FL01@3'-V	E5D0711-09	Soil	April 24, 2025 13:31	04/25/2025 08:09
FL02@3'-V	E5D0711-10	Soil	April 24, 2025 14:01	04/25/2025 08:09
FL03@3'-V	E5D0711-11	Soil	April 24, 2025 14:31	04/25/2025 08:09
FL04@3'-V	E5D0711-12	Soil	April 24, 2025 14:51	04/25/2025 08:09

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Ensolum
11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
Project Number: 09A14171096
Project: KMG - Herman L 32-14 Wellhead



Please Review Final Report When Available

Page 1 of 1

Client: Ensolum
Address: _____

Project Manager: J Espinoza
Project Name: Herman L 32-14 Wellhead

Telephone Number: _____

Project Number: 09A14171096

Email Address: KEN@ENSO.COM

Invoice/Billing Info: Initial Price

Key:
W=Water
G=Cleanwater
S=Surface Water
M=Misc Water
L=Liquid

Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Analysis					Comments
					TDS	Chloride	Sulfate	pH		
GW-FLO3	4/24	1335	4	GW	X	X	X			
GW-FLO203		1405	1							
GW-FLO303		1435	1							
GW-FLO403		1455	1							
FLO03		1330	3	5						
FLO203		1400	1							
FLO303		1430	1							
FLO403		1450	1							
FLO03-V		1331	2							
FLO203-V		1401	1							
FLO303-V		1431	1							
FLO403-V		1451	1							

Reimbursed By: [Signature] Date: 4/28/2015 Time: 8:00
 Received By: JEM Date: 4-25-15 Time: 8:01

Temp Received - 24 Received On Ice? Yes No

Turnaround Time: 48 Hr 72 Hr 24 Hr 24 Hr 24 Hr

Origins Laboratory
[Signature]

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Ensolum
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Jeremy Espinoza
Project Number: 09A14171096
Project: KMG - Herman L 32-14 Wellhead

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: ESD0711

Client: Ensolum

Client Project ID: Herman L32-14 WH

Checklist Completed by: JAB/NKM

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 4/25/25

Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid

Water

Other: _____

Cooler Number/Temperature: 1/29 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: T007

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>			
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>			
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>			
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)	<input checked="" type="checkbox"/>			
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 be taken in the additional comments (above) and the case narrative.

Reviewed by: JAB (Project Manager)

Date/Time Reviewed: 4/28/25

Origins Laboratory

EHO

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Jeremy Espinoza
 Project Number: 09A14171096
 Project: KMG - Herman L 32-14 Wellhead

GW-FL01@3'
4/24/2025 1:35:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0711-01 (Water)
Origins Laboratory

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B5D2533	04/25/2025	04/26/2025	Ua
1,3,5-Trimethylbenzene	ND		2.00	"	"	"	"	"	Ua
Benzene	ND		1.00	"	"	"	"	"	Ua
Ethylbenzene	ND		1.00	"	"	"	"	"	Ua
Naphthalene	ND		2.00	"	"	"	"	"	Ua
Toluene	ND		1.00	"	"	"	"	"	Ua
Xylenes, total	ND		1.00	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	99.4 %				70-130	"	"	"	
Surrogate: Toluene-d8	98.4 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.4 %				70-130	"	"	"	

Chloride and Sulfate By EPA 300.0

Chloride	442		31.2	mg/L	125	B5D2805	04/28/2025	04/28/2025	
Sulfate	877		31.2	"	"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2690		5.00	"	1	B5D2812	04/28/2025	04/30/2025	
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GW-FL02@3'
4/24/2025 2:05:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0711-02 (Water)									
Origins Laboratory									
BTEX+N+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B5D2533	04/25/2025	04/26/2025	Ua
1,3,5-Trimethylbenzene	ND		2.00	"	"	"	"	"	Ua
Benzene	ND		1.00	"	"	"	"	"	Ua
Ethylbenzene	ND		1.00	"	"	"	"	"	Ua
Naphthalene	ND		2.00	"	"	"	"	"	Ua
Toluene	ND		1.00	"	"	"	"	"	Ua
Xylenes, total	ND		1.00	"	"	"	"	"	Ua
Surrogate: 1,2-Dichloroethane-d4	103 %				70-130	"	"	"	
Surrogate: Toluene-d8	98.1 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.2 %				70-130	"	"	"	
Chloride and Sulfate By EPA 300.0									
Chloride	483		31.2	mg/L	125	B5D2805	04/28/2025	04/28/2025	
Sulfate	866		31.2	"	"	"	"	"	
Total Dissolved Solids by 2540C									
Total Dissolved Solids	2450		5.00	"	1	B5D2812	04/28/2025	04/30/2025	

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GW-FL03@3'
4/24/2025 2:35:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0711-03 (Water)									
Origins Laboratory									
BTEX+N+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B5D2533	04/25/2025	04/26/2025	Ua
1,3,5-Trimethylbenzene	ND		2.00	"	"	"	"	"	Ua
Benzene	ND		1.00	"	"	"	"	"	Ua
Ethylbenzene	ND		1.00	"	"	"	"	"	Ua
Naphthalene	ND		2.00	"	"	"	"	"	Ua
Toluene	ND		1.00	"	"	"	"	"	Ua
Xylenes, total	ND		1.00	"	"	"	"	"	Ua
Surrogate: 1,2-Dichloroethane-d4	103 %				70-130	"	"	"	
Surrogate: Toluene-d8	97.7 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %				70-130	"	"	"	
Chloride and Sulfate By EPA 300.0									
Chloride	1390		31.2	mg/L	125	B5D2805	04/28/2025	04/28/2025	
Sulfate	3160		125	"	501	"	"	04/29/2025	
Total Dissolved Solids by 2540C									
Total Dissolved Solids	7390		5.00	"	1	B5D2812	04/28/2025	04/30/2025	

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GW-FL04@3'
4/24/2025 2:55:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0711-04 (Water)									
Origins Laboratory									
BTEX+N+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B5D2533	04/25/2025	04/26/2025	Ua
1,3,5-Trimethylbenzene	ND		2.00	"	"	"	"	"	Ua
Benzene	ND		1.00	"	"	"	"	"	Ua
Ethylbenzene	ND		1.00	"	"	"	"	"	Ua
Naphthalene	ND		2.00	"	"	"	"	"	Ua
Toluene	ND		1.00	"	"	"	"	"	Ua
Xylenes, total	ND		1.00	"	"	"	"	"	Ua
Surrogate: 1,2-Dichloroethane-d4	105 %				70-130	"	"	"	
Surrogate: Toluene-d8	98.0 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %				70-130	"	"	"	
Chloride and Sulfate By EPA 300.0									
Chloride	1030		31.2	mg/L	125	B5D2805	04/28/2025	04/28/2025	
Sulfate	2810		31.2	"	"	"	"	"	
Total Dissolved Solids by 2540C									
Total Dissolved Solids	6300		5.00	"	1	B5D2812	04/28/2025	04/30/2025	

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FL01@3'
4/24/2025 1:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0711-05 (Soil)									
GEL Laboratories, LLC									
Total Metals 7196A									
Hexavalent Chromium	ND	0.161	0.401	mg/kg dry	1	2792791	05/06/2025	05/08/2025	U
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.110		0.0987	mg/L	1	B5D2558	04/25/2025	04/30/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D2542	04/25/2025	04/29/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua
Surrogate: o-Terphenyl	82.2 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D2575	04/25/2025	04/27/2025	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua

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FL01@3'
4/24/2025 1:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0711-05 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B5D2575	04/25/2025	04/27/2025	Ua
Surrogate: 1,2-Dichloroethane-d4	101 %			70-130		"	"	"	
Surrogate: Toluene-d8	98.7 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.670		0.499	meq/L	10	[CALC]	05/01/2025	05/05/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.78		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5D2925	04/29/2025	05/03/2025	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua

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FL01@3'
4/24/2025 1:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0711-05 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Chrysene	ND	0.020	mg/kg	1	B5D2925	04/29/2025	05/03/2025	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	97.4 %			60-130	"	"	"	
Surrogate: Anthracene-d10	99.5 %			60-130	"	"	"	
Surrogate: Pyrene-d10	107 %			60-130	"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %			60-130	"	"	"	

pH in Soil by 9045D

pH	8.26			pH Units	1	B5E0118	05/01/2025	05/02/2025	
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SAR by 20B Saturated Paste

SAR	5.21	0.0100	SAR	1	B5E0106	05/01/2025	05/05/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.574	0.00500	mmhos/cm	1	B5E0118	05/01/2025	05/02/2025	
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 Project: KMG - Herman L 32-14 Wellhead

FL01@3'
4/24/2025 1:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0711-05 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	1.90		0.286	mg/kg	10	B5D2568	04/25/2025	04/28/2025	
Barium	68.7		9.87	"	"	"	"	"	
Cadmium	ND		0.0987	"	"	"	"	"	
Copper	ND		9.87	"	"	"	"	"	
Lead	5.12		0.987	"	"	"	"	"	
Nickel	4.85		0.987	"	"	"	"	"	
Selenium	ND		0.257	"	"	"	"	"	
Silver	ND		0.0987	"	"	"	"	"	
Zinc	ND		36.5	"	"	"	"	"	

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FL02@3'
4/24/2025 2:00:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0711-06 (Soil)									
GEL Laboratories, LLC									
Total Metals 7196A									
Hexavalent Chromium	ND	0.167	0.417	mg/kg dry	1	2792791	05/06/2025	05/08/2025	U
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.201		0.100	mg/L	1	B5D2558	04/25/2025	04/30/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D2542	04/25/2025	04/29/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua
Surrogate: o-Terphenyl	80.8 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D2575	04/25/2025	04/27/2025	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua

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 Project: KMG - Herman L 32-14 Wellhead

FL02@3'

4/24/2025 2:00:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0711-06 (Soil)
 Origins Laboratory**

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B5D2575	04/25/2025	04/27/2025	Ua
Surrogate: 1,2-Dichloroethane-d4	101 %			70-130		"	"	"	
Surrogate: Toluene-d8	99.6 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	98.8 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	05/01/2025	05/05/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	6.65		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5D2925	04/29/2025	05/03/2025	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua

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

Jeremy Espinoza
 Project Number: 09A14171096
 Project: KMG - Herman L 32-14 Wellhead

FL02@3'

4/24/2025 2:00:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0711-06 (Soil)
 Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Chrysene	ND		0.020	mg/kg	1	B5D2925	04/29/2025	05/03/2025	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	97.7 %			60-130		"	"	"	
Surrogate: Anthracene-d10	99.4 %			60-130		"	"	"	
Surrogate: Pyrene-d10	107 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.01			pH Units	1	B5E0118	05/01/2025	05/02/2025	
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SAR by 20B Saturated Paste

SAR	15.4		0.0100	SAR	1	B5E0106	05/01/2025	05/05/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.853		0.00500	mmhos/cm	1	B5E0118	05/01/2025	05/02/2025	
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171096
 Project: KMG - Herman L 32-14 Wellhead

FL02@3'
4/24/2025 2:00:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0711-06 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	2.35		0.274	mg/kg	10	B5D2568	04/25/2025	04/28/2025	
Barium	53.1		9.43	"	"	"	"	"	
Cadmium	0.107		0.0943	"	"	"	"	"	
Copper	ND		9.43	"	"	"	"	"	
Lead	5.89		0.943	"	"	"	"	"	
Nickel	5.17		0.943	"	"	"	"	"	
Selenium	0.341		0.245	"	"	"	"	"	
Silver	ND		0.0943	"	"	"	"	"	
Zinc	ND		34.9	"	"	"	"	"	

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Jeremy Espinoza
 Project Number: 09A14171096
 Project: KMG - Herman L 32-14 Wellhead

FL03@3'

4/24/2025 2:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0711-07 (Soil)									
GEL Laboratories, LLC									
Total Metals 7196A									
Hexavalent Chromium	ND	0.164	0.409	mg/kg dry	1	2792791	05/06/2025	05/08/2025	U
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.53		0.0996	mg/L	1	B5D2558	04/25/2025	04/30/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D2542	04/25/2025	04/29/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua
Surrogate: o-Terphenyl	78.6 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D2575	04/25/2025	04/27/2025	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171096
 Project: KMG - Herman L 32-14 Wellhead

FL03@3'
4/24/2025 2:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0711-07 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B5D2575	04/25/2025	04/27/2025	Ua
Surrogate: 1,2-Dichloroethane-d4	105 %			70-130		"	"	"	
Surrogate: Toluene-d8	97.9 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	05/01/2025	05/05/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	13.7		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5D2925	04/29/2025	05/03/2025	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua

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Jeremy Espinoza
 Project Number: 09A14171096
 Project: KMG - Herman L 32-14 Wellhead

FL03@3'

4/24/2025 2:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0711-07 (Soil)
 Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Chrysene	ND	0.020	mg/kg	1	B5D2925	04/29/2025	05/03/2025	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	97.4 %			60-130	"	"	"	
Surrogate: Anthracene-d10	98.6 %			60-130	"	"	"	
Surrogate: Pyrene-d10	107 %			60-130	"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %			60-130	"	"	"	

pH in Soil by 9045D

pH	8.39			pH Units	1	B5E0118	05/01/2025	05/02/2025
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SAR by 20B Saturated Paste

SAR	21.1	0.0100	SAR	1	B5E0106	05/01/2025	05/05/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.50	0.00500	mmhos/cm	1	B5E0118	05/01/2025	05/02/2025	
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Jeremy Espinoza
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 Project: KMG - Herman L 32-14 Wellhead

FL03@3'

4/24/2025 2:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0711-07 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	3.29		0.259	mg/kg	10	B5D2568	04/25/2025	04/28/2025	
Barium	86.7		8.94	"	"	"	"	"	"
Cadmium	0.111		0.0894	"	"	"	"	"	"
Copper	ND		8.94	"	"	"	"	"	"
Lead	8.29		0.894	"	"	"	"	"	"
Nickel	7.76		0.894	"	"	"	"	"	"
Selenium	ND		0.232	"	"	"	"	"	"
Silver	ND		0.0894	"	"	"	"	"	"
Zinc	41.7		33.1	"	"	"	"	"	"

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 Project: KMG - Herman L 32-14 Wellhead

FL04@3'
4/24/2025 2:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0711-08 (Soil)									
GEL Laboratories, LLC									
Total Metals 7196A									
Hexavalent Chromium	ND	0.187	0.468	mg/kg dry	1	2792791	05/06/2025	05/08/2025	U
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.67		0.100	mg/L	1	B5D2558	04/25/2025	04/30/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D2542	04/25/2025	04/29/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua
Surrogate: o-Terphenyl	76.8 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D2575	04/25/2025	04/27/2025	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171096
 Project: KMG - Herman L 32-14 Wellhead

FL04@3'
4/24/2025 2:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0711-08 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B5D2575	04/25/2025	04/27/2025	Ua
Surrogate: 1,2-Dichloroethane-d4	107 %			70-130		"	"	"	
Surrogate: Toluene-d8	103 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.29		0.499	meq/L	10	[CALC]	05/01/2025	05/05/2025	
Magnesium	2.04		0.823	"	"	"	"	"	
Sodium	42.7		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5D2925	04/29/2025	05/03/2025	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua

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Jeremy Espinoza
 Project Number: 09A14171096
 Project: KMG - Herman L 32-14 Wellhead

FL04@3'

4/24/2025 2:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0711-08 (Soil)
 Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Chrysene	ND	0.020	mg/kg	1	B5D2925	04/29/2025	05/03/2025	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	97.4 %			60-130	"	"	"	
Surrogate: Anthracene-d10	98.7 %			60-130	"	"	"	
Surrogate: Pyrene-d10	106 %			60-130	"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %			60-130	"	"	"	

pH in Soil by 9045D

pH	8.48			pH Units	1	B5E0118	05/01/2025	05/02/2025
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SAR by 20B Saturated Paste

SAR	33.1	0.0100	SAR	1	B5E0106	05/01/2025	05/05/2025
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.68	0.00500	mmhos/cm	1	B5E0118	05/01/2025	05/02/2025
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Jeremy Espinoza
 Project Number: 09A14171096
 Project: KMG - Herman L 32-14 Wellhead

FL04@3'
4/24/2025 2:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0711-08 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	3.93		0.285	mg/kg	10	B5D2568	04/25/2025	04/28/2025	
Barium	82.4		9.82	"	"	"	"	"	"
Cadmium	0.152		0.0982	"	"	"	"	"	"
Copper	ND		9.82	"	"	"	"	"	"
Lead	8.44		0.982	"	"	"	"	"	"
Nickel	8.99		0.982	"	"	"	"	"	"
Selenium	ND		0.255	"	"	"	"	"	"
Silver	ND		0.0982	"	"	"	"	"	"
Zinc	41.5		36.3	"	"	"	"	"	"

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Jeremy Espinoza
 Project Number: 09A14171096
 Project: KMG - Herman L 32-14 Wellhead

FL01@3'-V

4/24/2025 1:31:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0711-09 (Soil)
Origins Laboratory

pH in Soil by 9045D

pH	7.68			pH Units	1	B5E0223	05/02/2025	05/05/2025	
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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A14171096

Project: KMG - Herman L 32-14 Wellhead

FL02@3'-V

4/24/2025 2:01:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0711-10 (Soil)									
Origins Laboratory									
pH in Soil by 9045D									
pH	8.15			pH Units	1	B5E0223	05/02/2025	05/05/2025	

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 Project: KMG - Herman L 32-14 Wellhead

FL03@3'-V

4/24/2025 2:31:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0711-11 (Soil)
Origins Laboratory

pH in Soil by 9045D

pH	7.95			pH Units	1	B5E0223	05/02/2025	05/05/2025	
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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A14171096
Project: KMG - Herman L 32-14 Wellhead

FL04@3'-V

4/24/2025 2:51:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0711-12 (Soil)
Origins Laboratory

pH in Soil by 9045D

pH	7.94			pH Units	1	B5E0223	05/02/2025	05/05/2025	
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Jeremy Espinoza
 Project Number: 09A14171096
 Project: KMG - Herman L 32-14 Wellhead

Classical Chemistry Parameters - 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 B5D2558 - DTPA Sorbitol Preparation

Blank (B5D2558-BLK1)

Prepared: 04/25/2025 Analyzed: 04/30/2025

Boron ND 0.100 mg/L

Duplicate (B5D2558-DUP1)

Source: E5D0708-06

Prepared: 04/25/2025 Analyzed: 04/30/2025

Boron 0.107 0.0999 mg/L 0.0991 7.60 50

Batch B5D2805 - Filter .45um non acidified

Blank (B5D2805-BLK1)

Prepared: 04/28/2025 Analyzed: 04/28/2025

Chloride ND 0.250 mg/L Ua

Sulfate ND 0.250 " Ua

LCS (B5D2805-BS1)

Prepared: 04/28/2025 Analyzed: 04/28/2025

Chloride 3.91 0.250 mg/L 4.00 97.8 90-110

Sulfate 3.86 0.250 " 4.00 96.4 90-110

Matrix Spike (B5D2805-MS1)

Source: E5D0697-02

Prepared: 04/28/2025 Analyzed: 04/28/2025

Chloride 1400 mg/L 500 898 101 90-110

Sulfate 1950 " 500 1500 89.9 90-110 QM-07

Matrix Spike Dup (B5D2805-MSD1)

Source: E5D0697-02

Prepared: 04/28/2025 Analyzed: 04/28/2025

Chloride 1370 mg/L 500 898 95.4 90-110 2.07 5

Sulfate 1920 " 500 1500 82.5 90-110 1.91 5 QM-07

Batch B5D2812 - NO PREP

Blank (B5D2812-BLK1)

Prepared: 04/28/2025 Analyzed: 04/30/2025

Total Dissolved Solids ND 5.00 mg/L Ua

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Jeremy Espinoza
 Project Number: 09A14171096
 Project: KMG - Herman L 32-14 Wellhead

Classical Chemistry Parameters - 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 B5D2812 - NO PREP

LCS (B5D2812-BS1)

Prepared: 04/28/2025 Analyzed: 04/30/2025

Total Dissolved Solids 992 5.00 mg/L 1030 96.3 90-110

Duplicate (B5D2812-DUP1)

Source: E5D0697-02

Prepared: 04/28/2025 Analyzed: 04/30/2025

Total Dissolved Solids 4070 5.00 mg/L 4170 2.43 10

Batch B5E0106 - Saturated Paste Metals

Blank (B5E0106-BLK1)

Prepared: 05/01/2025 Analyzed: 05/05/2025

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

Duplicate (B5E0106-DUP1)

Source: E5E0011-07

Prepared: 05/01/2025 Analyzed: 05/05/2025

SAR ND 0.0100 SAR 2.19 200
 Calcium PPM 65.2 10.0 mg/L 78.1 18.0 50
 Magnesium PPM 28.5 10.0 " 34.5 19.1 50
 Sodium PPM 82.2 10.0 " 92.4 11.7 50

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Jeremy Espinoza
 Project Number: 09A14171096
 Project: KMG - Herman L 32-14 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 B5D2925 - EPA 3580

Blank (B5D2925-BLK1)

Prepared: 04/29/2025 Analyzed: 05/03/2025

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	200		ug/kg	200		99.4	60-130			
Surrogate: Anthracene-d10	190		"	200		94.0	60-130			
Surrogate: Pyrene-d10	190		"	200		96.2	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

LCS (B5D2925-BS1)

Prepared: 04/29/2025 Analyzed: 05/03/2025

1-Methylnaphthalene	0.194	0.002	mg/kg	0.200		97.2	70-130			
2-Methylnaphthalene	0.194	0.002	"	0.200		96.8	70-130			
Acenaphthene	0.206	0.020	"	0.200		103	70-130			
Anthracene	0.204	0.020	"	0.200		102	70-130			

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Project: KMG - Herman L 32-14 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 B5D2925 - EPA 3580

LCS (B5D2925-BS1)

Prepared: 04/29/2025 Analyzed: 05/03/2025

Benzo (a) anthracene	0.215	0.005	mg/kg	0.200		107	70-130			
Benzo (a) pyrene	0.214	0.020	"	0.200		107	70-130			
Benzo (b) fluoranthene	0.253	0.020	"	0.200		127	70-130			
Benzo (g,h,i) perylene	0.212	0.020	"	0.200		106	70-130			
Benzo (k) fluoranthene	0.223	0.020	"	0.200		112	70-130			
Chrysene	0.204	0.020	"	0.200		102	70-130			
Dibenz (a,h) anthracene	0.239	0.020	"	0.200		120	70-130			
Fluoranthene	0.213	0.020	"	0.200		107	70-130			
Fluorene	0.206	0.020	"	0.200		103	70-130			
Indeno (1,2,3-cd) pyrene	0.208	0.020	"	0.200		104	70-130			
Naphthalene	0.204	0.002	"	0.200		102	70-130			
Phenanthrene	0.212	0.020	"	0.200		106	70-130			
Pyrene	0.209	0.020	"	0.200		104	70-130			

Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		93.7	60-130			
Surrogate: Pyrene-d10	190		"	200		95.4	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike (B5D2925-MS1)

Source: E5D0700-01

Prepared: 04/29/2025 Analyzed: 05/03/2025

1-Methylnaphthalene	0.191	0.002	mg/kg	0.200	0.001	95.1	70-130			
2-Methylnaphthalene	0.192	0.002	"	0.200	0.001	95.6	70-130			
Acenaphthene	0.202	0.020	"	0.200	0.002	100	70-130			
Anthracene	0.208	0.020	"	0.200	ND	104	70-130			
Benzo (a) anthracene	0.210	0.005	"	0.200	ND	105	70-130			
Benzo (a) pyrene	0.201	0.020	"	0.200	0.0005	100	70-130			
Benzo (b) fluoranthene	0.247	0.020	"	0.200	ND	123	70-130			
Benzo (g,h,i) perylene	0.210	0.020	"	0.200	0.0007	105	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 B5D2925 - EPA 3580

Matrix Spike (B5D2925-MS1)

Source: E5D0700-01

Prepared: 04/29/2025 Analyzed: 05/03/2025

Benzo (k) fluoranthene	0.219	0.020	mg/kg	0.200	ND	110	70-130			
Chrysene	0.202	0.020	"	0.200	0.0005	101	70-130			
Dibenz (a,h) anthracene	0.238	0.020	"	0.200	0.001	118	70-130			
Fluoranthene	0.213	0.020	"	0.200	ND	106	70-130			
Fluorene	0.203	0.020	"	0.200	ND	102	70-130			
Indeno (1,2,3-cd) pyrene	0.249	0.020	"	0.200	0.002	123	70-130			
Naphthalene	0.197	0.002	"	0.200	ND	98.6	70-130			
Phenanthrene	0.208	0.020	"	0.200	ND	104	70-130			
Pyrene	0.207	0.020	"	0.200	ND	103	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		94.9	60-130			
Surrogate: Pyrene-d10	190		"	200		96.3	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

Matrix Spike Dup (B5D2925-MSD1)

Source: E5D0700-01

Prepared: 04/29/2025 Analyzed: 05/03/2025

1-Methylnaphthalene	0.190	0.002	mg/kg	0.200	0.001	94.3	70-130	0.858	20	
2-Methylnaphthalene	0.191	0.002	"	0.200	0.001	94.8	70-130	0.768	20	
Acenaphthene	0.198	0.020	"	0.200	0.002	98.1	70-130	1.98	20	
Anthracene	0.181	0.020	"	0.200	ND	90.6	70-130	14.0	20	
Benzo (a) anthracene	0.210	0.005	"	0.200	ND	105	70-130	0.0500	20	
Benzo (a) pyrene	0.193	0.020	"	0.200	0.0005	96.4	70-130	3.68	20	
Benzo (b) fluoranthene	0.245	0.020	"	0.200	ND	122	70-130	0.741	20	
Benzo (g,h,i) perylene	0.210	0.020	"	0.200	0.0007	105	70-130	0.309	20	
Benzo (k) fluoranthene	0.215	0.020	"	0.200	ND	107	70-130	2.28	20	
Chrysene	0.199	0.020	"	0.200	0.0005	99.3	70-130	1.41	20	
Dibenz (a,h) anthracene	0.236	0.020	"	0.200	0.001	117	70-130	0.875	20	
Fluoranthene	0.206	0.020	"	0.200	ND	103	70-130	3.21	20	

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D2925 - EPA 3580

Matrix Spike Dup (B5D2925-MSD1)

Source: E5D0700-01

Prepared: 04/29/2025 Analyzed: 05/03/2025

Fluorene	0.201	0.020	mg/kg	0.200	ND	100	70-130	1.26	20	
Indeno (1,2,3-cd) pyrene	0.251	0.020	"	0.200	0.002	125	70-130	1.04	20	
Naphthalene	0.197	0.002	"	0.200	ND	98.3	70-130	0.287	20	
Phenanthrene	0.202	0.020	"	0.200	ND	101	70-130	3.02	20	
Pyrene	0.200	0.020	"	0.200	ND	100	70-130	3.26	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.9	60-130			
Surrogate: Anthracene-d10	190		"	200		93.5	60-130			
Surrogate: Pyrene-d10	190		"	200		94.1	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D2542 - EPA 3550B

Blank (B5D2542-BLK1)

Prepared: 04/25/2025 Analyzed: 04/30/2025

Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	21		"	24.9		85.6	50-150			

LCS (B5D2542-BS1)

Prepared: 04/25/2025 Analyzed: 04/29/2025

Diesel (C10-C28)	920	50.0	mg/kg	1000		92.0	70-130			
Residual Range Organics (C28-C40)	929	200	"	1000		92.9	70-130			
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

Matrix Spike (B5D2542-MS1)

Source: E5D0703-01

Prepared: 04/25/2025 Analyzed: 04/29/2025

Diesel (C10-C28)	961	50.0	mg/kg	1000	ND	96.1	70-130			
Residual Range Organics (C28-C40)	979	200	"	1000	ND	97.9	70-130			
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			

Matrix Spike Dup (B5D2542-MSD1)

Source: E5D0703-01

Prepared: 04/25/2025 Analyzed: 04/29/2025

Diesel (C10-C28)	957	50.0	mg/kg	1000	ND	95.7	70-130	0.491	35	
Residual Range Organics (C28-C40)	975	200	"	1000	ND	97.5	70-130	0.403	35	
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

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 Project: KMG - Herman L 32-14 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 B5D2568 - EPA 3050B

Blank (B5D2568-BLK1)

Prepared: 04/25/2025 Analyzed: 04/28/2025

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 (B5D2568-BS1)

Prepared: 04/25/2025 Analyzed: 05/05/2025

Arsenic	5.62	0.290	mg/kg	5.00		112	80-120			
Barium	587	82.0	"	500		117	80-120			
Cadmium	5.74	0.380	"	5.00		115	80-120			
Copper	53.4	46.0	"	50.0		107	80-120			
Lead	5.90	14.0	"	5.00		118	80-120			
Nickel	5.36	26.0	"	5.00		107	80-120			
Selenium	5.67	0.260	"	5.00		113	80-120			
Silver	5.38	0.800	"	5.00		108	80-120			
Zinc	54.1	370	"	50.0		108	80-120			

Matrix Spike (B5D2568-MS1)

Source: E5D0708-01

Prepared: 04/25/2025 Analyzed: 05/05/2025

Arsenic	7.36	0.256	mg/kg	4.41	2.48	111	75-125			
Barium	582	72.3	"	441	57.1	119	75-125			
Cadmium	5.11	0.335	"	4.41	0.102	114	75-125			
Copper	57.3	40.5	"	44.1	6.99	114	75-125			
Lead	13.3	12.3	"	4.41	7.10	141	75-125			QM-07

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 Project: KMG - Herman L 32-14 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 B5D2568 - EPA 3050B

Matrix Spike (B5D2568-MS1)

Source: E5D0708-01

Prepared: 04/25/2025 Analyzed: 05/05/2025

Nickel	12.6	22.9	mg/kg	4.41	6.66	134	75-125			QM-07
Selenium	5.09	0.229	"	4.41	0.234	110	75-125			
Silver	4.53	0.705	"	4.41	0.0281	102	75-125			
Zinc	81.1	326	"	44.1	27.7	121	75-125			

Matrix Spike Dup (B5D2568-MSD1)

Source: E5D0708-01

Prepared: 04/25/2025 Analyzed: 05/05/2025

Arsenic	8.06	0.277	mg/kg	4.77	2.48	117	75-125	9.11	20	
Barium	633	78.3	"	477	57.1	121	75-125	8.43	20	
Cadmium	6.01	0.363	"	4.77	0.102	124	75-125	16.3	20	
Copper	59.6	43.9	"	47.7	6.99	110	75-125	4.05	20	
Lead	13.0	13.4	"	4.77	7.10	124	75-125	2.19	20	
Nickel	11.9	24.8	"	4.77	6.66	109	75-125	5.77	20	
Selenium	5.70	0.248	"	4.77	0.234	115	75-125	11.3	20	
Silver	5.14	0.764	"	4.77	0.0281	107	75-125	12.6	20	
Zinc	80.7	353	"	47.7	27.7	111	75-125	0.453	20	

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Saturated Paste - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E0118 - Saturated Paste pH/EC

Blank (B5E0118-BLK1)

Prepared: 05/01/2025 Analyzed: 05/02/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B5E0118-DUP1)

Source: E5E0011-07

Prepared: 05/01/2025 Analyzed: 05/02/2025

Specific Conductance (EC)	1.32	0.00500	mmhos/cm	1.46	9.75	25
pH	8.10		pH Units	8.37	3.28	25

Batch B5E0223 - Saturated Paste pH/EC

Duplicate (B5E0223-DUP1)

Source: E5D0705-27

Prepared: 05/02/2025 Analyzed: 05/05/2025

pH	7.54		pH Units	7.48	0.799	25
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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D2533 - EPA 5030B (Water)

Blank (B5D2533-BLK1)

Prepared: 04/25/2025 Analyzed: 04/25/2025

1,2,4-Trimethylbenzene	ND	2.00	ug/L							Ua
1,3,5-Trimethylbenzene	ND	2.00	"							Ua
Benzene	ND	1.00	"							Ua
Ethylbenzene	ND	1.00	"							Ua
Naphthalene	ND	2.00	"							Ua
Toluene	ND	1.00	"							Ua
Xylenes, total	ND	1.00	"							Ua
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

LCS (B5D2533-BS1)

Prepared: 04/25/2025 Analyzed: 04/25/2025

1,2,4-Trimethylbenzene	49.8	2.00	ug/L	50.0		99.7	70-130			
1,3,5-Trimethylbenzene	48.8	2.00	"	50.0		97.5	70-130			
Benzene	44.1	1.00	"	50.0		88.1	70-130			
Ethylbenzene	44.9	1.00	"	50.0		89.7	70-130			
m,p-Xylene	90.8	2.00	"	100		90.8	70-130			
Naphthalene	55.6	2.00	"	50.0		111	70-130			
o-Xylene	48.4	1.00	"	50.0		96.8	70-130			
Toluene	45.7	1.00	"	50.0		91.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.9	70-130			
Surrogate: Toluene-d8	62		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

Matrix Spike (B5D2533-MS1)

Source: E5D0682-01

Prepared: 04/25/2025 Analyzed: 04/25/2025

1,2,4-Trimethylbenzene	51.6	2.00	ug/L	50.0	ND	103	70-130			
1,3,5-Trimethylbenzene	52.5	2.00	"	50.0	ND	105	70-130			

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 Project: KMG - Herman L 32-14 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 B5D2533 - EPA 5030B (Water)

Matrix Spike (B5D2533-MS1)

Source: E5D0682-01

Prepared: 04/25/2025 Analyzed: 04/25/2025

Benzene	43.0	1.00	ug/L	50.0	ND	85.9	70-130			
Ethylbenzene	43.9	1.00	"	50.0	ND	87.8	70-130			
m,p-Xylene	101	2.00	"	100	ND	101	70-130			
Naphthalene	47.3	2.00	"	50.0	ND	94.6	70-130			
o-Xylene	48.7	1.00	"	50.0	ND	97.3	70-130			
Toluene	44.4	1.00	"	50.0	ND	88.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		90.4	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		110	70-130			

Matrix Spike Dup (B5D2533-MSD1)

Source: E5D0682-01

Prepared: 04/25/2025 Analyzed: 04/25/2025

1,2,4-Trimethylbenzene	50.3	2.00	ug/L	50.0	ND	101	70-130	2.55	20	
1,3,5-Trimethylbenzene	50.1	2.00	"	50.0	ND	100	70-130	4.66	20	
Benzene	45.8	1.00	"	50.0	ND	91.7	70-130	6.49	20	
Ethylbenzene	46.2	1.00	"	50.0	ND	92.4	70-130	5.15	20	
m,p-Xylene	93.3	2.00	"	100	ND	93.3	70-130	8.15	20	
Naphthalene	58.2	2.00	"	50.0	ND	116	70-130	20.6	20	QR-02
o-Xylene	48.5	1.00	"	50.0	ND	97.1	70-130	0.267	20	
Toluene	44.9	1.00	"	50.0	ND	89.7	70-130	0.985	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.4	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Batch B5D2575 - EPA 5030 (soil)

Blank (B5D2575-BLK1)

Prepared: 04/25/2025 Analyzed: 04/27/2025

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua

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

Jeremy Espinoza
 Project Number: 09A14171096
 Project: KMG - Herman L 32-14 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 B5D2575 - EPA 5030 (soil)

Blank (B5D2575-BLK1)

Prepared: 04/25/2025 Analyzed: 04/27/2025

Benzene	ND	0.00200	mg/kg							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua

Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.9	70-130			

LCS (B5D2575-BS1)

Prepared: 04/25/2025 Analyzed: 04/27/2025

1,2,4-Trimethylbenzene	0.0903	0.00200	mg/kg	0.100		90.3	70-130			
1,3,5-Trimethylbenzene	0.0904	0.00200	"	0.100		90.4	70-130			
Benzene	0.0883	0.00200	"	0.100		88.3	70-130			
Ethylbenzene	0.0878	0.00200	"	0.100		87.8	70-130			
Naphthalene	0.100	0.00380	"	0.100		100	70-130			
Toluene	0.0913	0.00200	"	0.100		91.3	70-130			
o-Xylene	0.0911	0.00200	"	0.100		91.1	70-130			
m,p-Xylene	0.176	0.00400	"	0.200		87.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.5	70-130			

Matrix Spike (B5D2575-MS1)

Source: E5D0711-05

Prepared: 04/25/2025 Analyzed: 04/27/2025

1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130			
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130			
Benzene	0.0904	0.00200	"	0.100	ND	90.4	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D2575 - EPA 5030 (soil)

Matrix Spike (B5D2575-MS1)

Source: E5D0711-05

Prepared: 04/25/2025 Analyzed: 04/27/2025

Ethylbenzene	0.104	0.00200	mg/kg	0.100	ND	104	70-130			
Naphthalene	0.0663	0.00380	"	0.100	0.00150	64.8	70-130			QM-07
Toluene	0.0968	0.00200	"	0.100	ND	96.8	70-130			
o-Xylene	0.104	0.00200	"	0.100	ND	104	70-130			
m,p-Xylene	0.211	0.00400	"	0.200	ND	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		83.3	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Matrix Spike Dup (B5D2575-MSD1)

Source: E5D0711-05

Prepared: 04/25/2025 Analyzed: 04/27/2025

1,2,4-Trimethylbenzene	0.0976	0.00200	mg/kg	0.100	ND	97.6	70-130	7.34	20	
1,3,5-Trimethylbenzene	0.0981	0.00200	"	0.100	ND	98.1	70-130	10.4	20	
Benzene	0.0886	0.00200	"	0.100	ND	88.6	70-130	2.01	20	
Ethylbenzene	0.0963	0.00200	"	0.100	ND	96.3	70-130	8.09	20	
Naphthalene	0.0877	0.00380	"	0.100	0.00150	86.2	70-130	27.8	20	QR-02
Toluene	0.0906	0.00200	"	0.100	ND	90.6	70-130	6.60	20	
o-Xylene	0.0963	0.00200	"	0.100	ND	96.3	70-130	7.50	20	
m,p-Xylene	0.192	0.00400	"	0.200	ND	96.0	70-130	9.24	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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 Project: KMG - Herman L 32-14 Wellhead

Total Metals 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2792791 - SW846 3060A

BLANK (1206095278-BLK)

Prepared: 05/06/2025 Analyzed: 05/08/2025

Hexavalent Chromium	ND	0.356	mg/kg				-			U
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LCS (1206095279-BKS)

Prepared: 05/06/2025 Analyzed: 05/08/2025

Hexavalent Chromium	3.78	0.380	mg/kg	3.80		99.3	80-120			
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DUP (1206095280 D)

Source: 721752001

Prepared: 05/06/2025 Analyzed: 05/08/2025

Hexavalent Chromium	ND	0.444	mg/kg dry		<0.177		0-50	N/A	50	U
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MS (1206095281 S)

Source: 721752001

Prepared: 05/06/2025 Analyzed: 05/08/2025

Hexavalent Chromium	2.90	0.444	mg/kg dry	4.44	<0.178	64.9	75-125			
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DUP (1206095282 D)

Source: 721752002

Prepared: 05/06/2025 Analyzed: 05/08/2025

Hexavalent Chromium	ND	0.467	mg/kg dry		<0.187		0-50	N/A	50	U
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MS (1206095283 S)

Source: 721752002

Prepared: 05/06/2025 Analyzed: 05/08/2025

Hexavalent Chromium	3.90	0.467	mg/kg dry	4.67	<0.187	81.9	75-125			
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ILCS (1206095284-ILCS)

Prepared: 05/06/2025 Analyzed: 05/08/2025

Hexavalent Chromium	7.01	0.342	mg/kg	7.09		98.9	80-120			
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11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A14171096
Project: KMG - Herman L 32-14 Wellhead

Notes and Definitions

- Ua Sample is Non-Detect.
 - U Result not detected above the detection limit
 - QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
 - QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
 - ND Analyte NOT DETECTED at or above the reporting limit
 - RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.

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