

**TABLE 1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
RADEMACHER 35-30 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP**

Soil Sample Location	Date	Depth (ft. bgs)	PID Reading (ppm)	Visual Observation	Olfactory Observation	Latitude	Longitude	Submitted for Lab Analysis? (Y/N)
WELLHEAD EXCAVATION SAMPLES								
N Wall	6/24/2022	NA	0.0	NS	NO	40.19134042	-104.9343102	N
E Wall	6/24/2022	NA	0.1	NS	NO	40.19131252	-104.9342702	N
S Wall	6/24/2022	NA	0.0	NS	NO	40.19128344	-104.9343096	N
W Wall	6/24/2022	NA	0.0	NS	NO	40.19131192	-104.9343555	N
B01@6'-WP	6/24/2022	6	0.9	NS	NO	40.19132318	-104.9343009	Y
FLOWLINE POTHOLE SAMPLES								
PH01/FL01@4'	6/24/2022	4	19.4	NS	Odor	40.19133153	-104.9343481	Y
FL01@8'	8/3/2022	8	10.8	NS	NO	40.19133153	-104.9343481	Y
SEPARATOR RISER SAMPLES								
Sep01-Inlet@5'-WP	6/24/2022	5	5.8	NS	NO	40.19394917	-104.9354498	Y
BACKGROUND SOIL SAMPLES								
Native-BG01@3'	6/24/2022	3	NA	NS	NO	40.19143051	-104.9343132	Y
Native-BG01@6'	6/24/2022	6	NA	NS	NO	40.19143051	-104.9343132	Y
Native-BG02@3'	6/24/2022	3	NA	NS	NO	40.19129863	-104.9341014	Y
Native-BG02@6'	6/24/2022	6	NA	NS	NO	40.19129863	-104.9341014	Y
Native-BG03@3'	6/24/2022	3	NA	NS	NO	40.19131448	-104.9345044	Y
Native-BG03@6'	6/24/2022	6	NA	NS	NO	40.19131448	-104.9345044	Y

Notes:

ft. - feet
 bgs - below ground surface
 PID - Photoionization detector
 ppm - parts per million

NS - No Staining
 NO - No Odor
 NA - Not Analyzed/Not Applicable

TABLE 2-1
SOIL SAMPLE SOIL SAMPLE ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS AND TOTAL PETROLEUM HYDROCARBONS
RADEMACHER 35-30 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	TPH-GRO ⁺ (mg/kg)	TPH-DRO ⁺ (mg/kg)	TPH-RRO ⁺ (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	1,2,4-Trimethyl benzene (mg/kg)	1,3,5-Trimethyl benzene (mg/kg)	Naphthalene (mg/kg)
Groundwater Protection Values (GPV)			500	500	500	0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038
WELLHEAD EXCAVATION SAMPLES												
B01@6'-WP	6/24/2022	6	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
FLOWLINE SAMPLES												
FL01@4'	6/24/2022	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
FL01@8'	8/3/2022	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEPARATOR RISER SAMPLES												
Sep01-Inlet@5'-WP	6/24/2022	5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380

TABLE 2-2
SOIL SAMPLE SOIL SAMPLE ANALYTICAL RESULTS
POLYCYCLIC AROMATIC HYDROCARBONS
RADEMACHER 35-30 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	Acenaphthene (mg/Kg)	Anthracene (mg/Kg)	Benzo (a) anthracene (mg/Kg)	Benzo (b) fluoranthene (mg/Kg)	Benzo (k) fluoranthene (mg/Kg)	Benzo (a) pyrene (mg/Kg)	Chrysene (mg/Kg)	Dibenz (a,h) anthracene (mg/Kg)	Fluoranthene (mg/Kg)	Fluorene (mg/Kg)	Indeno (1,2,3-cd) pyrene (mg/Kg)	1-Methyl naphthalene (mg/Kg)	2-Methyl naphthalene (mg/Kg)	Pyrene (mg/Kg)
Groundwater Protection Values (GPV)			0.55	5.8	0.011	0.3	2.9	0.24	9	0.096	8.9	0.54	0.98	0.006	0.019	1.3
WELLHEAD EXCAVATION SAMPLES																
B01@6'-WP	6/24/2022	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FLOWLINE SAMPLES																
FL01@4'	6/24/2022	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL01@8'	8/3/2022	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEPARATOR RISER SAMPLES																
Sep01-Inlet@5'-WP	6/24/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 2-3
SOIL SAMPLE SOIL SAMPLE ANALYTICAL RESULTS
SOIL SUITABILITY FOR RECLAMATION
RADEMACHER 35-30 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	EC (mmhos/cm)	SAR	pH	Boron (mg/L)
Groundwater Protection Values (GPV)			4	6	6-8.3	2
WELLHEAD EXCAVATION SAMPLES						
B01@6'-WP	6/24/2022	6	0.868	5.61	8.47*	0.538
FLOWLINE SAMPLES						
FL01@4'	6/24/2022	4	0.865	11.4	8.55*	1.35
FL01@8'	8/3/2022	8	NA	5.05	NA	NA
SEPARATOR RISER SAMPLES						
Sep01-Inlet@5'-WP	6/24/2022	5	1.950	2.44	8.31*	0.943
BACKGROUND SAMPLES						
Native-BG01@3'	6/24/2022	3	0.792	1.42	8.25	0.714
Native-BG01@6'	6/24/2022	6	0.971	1.35	8.24	0.441
Native-BG02@3'	6/24/2022	3	0.736	1.55	8.33	0.962
Native-BG02@6'	6/24/2022	6	1.08	2.69	8.37	0.537
Native-BG03@3'	6/24/2022	3	0.815	1.54	8.27	0.687
Native-BG03@6'	6/24/2022	6	0.911	2.00	8.32	0.501

TABLE 2-4
SOIL SAMPLE SOIL SAMPLE ANALYTICAL RESULTS
METALS
RADEMACHER 35-30 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
Groundwater Protection Value (GPV)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
WELLHEAD EXCAVATION SAMPLES												
B01@6'-WP	6/24/2022	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FLOWLINE SAMPLES												
FL01@4'	6/24/2022	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL01@8'	8/3/2022	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEPARATOR RISER SAMPLES												
Sep01-Inlet@5'-WP	6/24/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BACKGROUND SAMPLES												
Native-BG01@3'	5/10/2022	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Native-BG01@6'	5/10/2022	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Native-BG02@3'	5/10/2022	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Native-BG02@6'	5/10/2022	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Native-BG03@3'	5/10/2022	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Native-BG03@6'	5/10/2022	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 2-5
SOIL SAMPLE SOIL SAMPLE ANALYTICAL RESULTS
NOTES
RADEMACHER 35-30 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Notes:

GPV - Groundwater Protection Values (mg/kg)

TPH - Total Petroleum Hydrocarbons

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

RRO - Residual Range Organics

*Allowable level for TPH is 500 mg/kg for combined GRO, DRO, ORO

* Exceeds Table 915-1 allowable level but below analytical variability of background

EC - Electrical Conductivity

SAR - Sodium Adsorption Ratio

mmhos/cm - millimhos per centimeter

<0.00200 - less than laboratory reporting limit

NA - Not Analyzed/Not Applicable

Bold - exceeds Table 915-1 allowable level

June 30, 2022

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

**Project Name - KMG - Rademacher 35-30
Wellhead**

Project Number - [none]

Attached are your analytical results for KMG - Rademacher 35-30 Wellhead received by Origins Laboratory, Inc. June 24, 2022. This project is associated with Origins project number Y206619-01.

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

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

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

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

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

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Rademacher 35-30 Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@6'-WP	Y206619-01	Soil	June 24, 2022 13:30	06/24/2022 16:17
FL01@4'	Y206619-02	Soil	June 24, 2022 13:35	06/24/2022 16:17
Sep01-Inlet01@5'-WP	Y206619-03	Soil	June 24, 2022 14:58	06/24/2022 16:17
Native-BG01@3'	Y206619-04	Soil	June 24, 2022 13:40	06/24/2022 16:17
Native-BG01@6'	Y206619-05	Soil	June 24, 2022 13:42	06/24/2022 16:17
Native-BG02@3'	Y206619-06	Soil	June 24, 2022 13:45	06/24/2022 16:17
Native-BG02@6'	Y206619-07	Soil	June 24, 2022 13:47	06/24/2022 16:17
Native-BG03@3'	Y206619-08	Soil	June 24, 2022 13:49	06/24/2022 16:17
Native-BG03@6'	Y206619-09	Soil	June 24, 2022 13:52	06/24/2022 16:17

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: [none]

Project: KMG - Rademacher 35-30 Wellhead



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Y206619

page 1 of 1

Client: Ensolum
 Project Manager: Jeremy Espinoza
 Address: Rademacher 35-30 Wellhead
 Project Name: Rademacher 35-30 Wellhead
 Project Number: 09A147118

Telephone Number: _____
 Samples Collected By: FS

Email Address: Ensolum's KMG Team

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis					Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summ #	Other	GRTX	Z	PH (COR)	PH (SP)		BAR (SP)	TMBS
B0106'-WP	6/24/22	1330	2	X						X			X	X	X	X	X	GW Protection 1
F10104'		1335											X	X	X	X	X	2
S0001-11101025-WP		1456											X	X	X	X	X	3
Native-BG0103'		1340											X	X	X	X	X	4
Native-BG0106'		1342											X	X	X	X	X	5
Native-BG0203'		1345											X	X	X	X	X	6
Native-BG0206'		1347											X	X	X	X	X	7
Native-BG0303'		1349											X	X	X	X	X	8
Native-BG0306'		1352											X	X	X	X	X	9
																		10
Relinquished By: <i>[Signature]</i>	Date: 6/24/22	Time: 1017		Received By: <i>[Signature]</i>	Date: 6/29/22	Time: 1617		Turnaround Time: Some Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> Standard <input type="checkbox"/>										
Relinquished By: _____	Date: _____	Time: _____		Received By: _____	Date: _____	Time: _____												

Date Results Needed

Temp Received- 11/1

Origins Laboratory, Inc.

[Signature]

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

Jeremy Espinoza
 Project Number: [none]
 Project: KMG - Rademacher 35-30 Wellhead

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X 206619

Client: Ensolum

Client Project ID: Rademacher 35-30 well

Checklist Completed by: MS

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

Date/time completed: 6/24/22

Airbill #: NA

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


Cooler Number/Temperature: 1 / 1.1 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	X			
Is there ice present (document if blue ice is used)	X			
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) _____ Date/Time Reviewed 6/24/22

Origins Laboratory, Inc.


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

Jeremy Espinoza
 Project Number: [none]
 Project: KMG - Rademacher 35-30 Wellhead

B01@6'-WP
6/24/2022 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206619-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.538	0.100	mg/L	1	B2F2709	KAP	06/27/2022	06/28/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2F2423	ZZZ	06/24/2022	06/25/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	78.5 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2F2425	JMA	06/24/2022	06/24/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JMA	"	"	U
Benzene	ND	0.00200	"	"	"	JMA	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JMA	"	"	U
Naphthalene	ND	0.00380	"	"	"	JMA	"	"	U
Toluene	ND	0.00200	"	"	"	JMA	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JMA	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JMA	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	87.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: [none]
 Project: KMG - Rademacher 35-30 Wellhead

B01@6'-WP
6/24/2022 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206619-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	0.968	0.499	meq/L	10	[CALC]	KAP	06/27/2022	06/28/2022
Magnesium	1.21	0.823	"	"	"	KAP	"	"
Sodium	5.86	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.47		pH Units	1	B2F2712	CJM	06/27/2022	06/28/2022
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SAR by 20B Saturated Paste

SAR	5.61		SAR	1	B2F2706	KAP	06/27/2022	06/28/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.868	0.00500	mmhos/cm	1	B2F2712	CJM	06/27/2022	06/28/2022
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Origins Laboratory, Inc.



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Ensolum
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: [none]
 Project: KMG - Rademacher 35-30 Wellhead

FL01@4'
 6/24/2022 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y206619-02 (Soil)

Boron (DTPA Sorbitol)

Boron	1.35	0.100	mg/L	1	B2F2709	KAP	06/27/2022	06/28/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2F2423	ZZZ	06/24/2022	06/25/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	83.6 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2F2425	JMA	06/24/2022	06/24/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JMA	"	"	U
Benzene	ND	0.00200	"	"	"	JMA	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JMA	"	"	U
Naphthalene	ND	0.00380	"	"	"	JMA	"	"	U
Toluene	ND	0.00200	"	"	"	JMA	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JMA	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JMA	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	87.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: [none]
 Project: KMG - Rademacher 35-30 Wellhead

FL01@4'

6/24/2022 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y206619-02 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	KAP	06/27/2022	06/28/2022	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	7.28	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	8.55		pH Units	1	B2F2712	CJM	06/27/2022	06/28/2022	
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SAR by 20B Saturated Paste

SAR	11.4		SAR	1	B2F2706	KAP	06/27/2022	06/28/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.865	0.00500	mmhos/cm	1	B2F2712	CJM	06/27/2022	06/28/2022	
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Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: [none]
 Project: KMG - Rademacher 35-30 Wellhead

Sep01-Inlet01@5'-WP
6/24/2022 2:58:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206619-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.943	0.100	mg/L	1	B2F2709	KAP	06/27/2022	06/28/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2F2423	ZZZ	06/24/2022	06/25/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	87.1 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2F2425	JMA	06/24/2022	06/24/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JMA	"	"	U
Benzene	ND	0.00200	"	"	"	JMA	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JMA	"	"	U
Naphthalene	ND	0.00380	"	"	"	JMA	"	"	U
Toluene	ND	0.00200	"	"	"	JMA	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JMA	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JMA	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	88.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: [none]
 Project: KMG - Rademacher 35-30 Wellhead

Sep01-Inlet01@5'-WP
6/24/2022 2:58:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206619-03 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	4.33	0.499	meq/L	10	[CALC]	KAP	06/27/2022	06/28/2022
Magnesium	10.9	0.823	"	"	"	KAP	"	"
Sodium	6.74	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.31		pH Units	1	B2F2712	CJM	06/27/2022	06/28/2022
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SAR by 20B Saturated Paste

SAR	2.44		SAR	1	B2F2706	KAP	06/27/2022	06/28/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.95	0.00500	mmhos/cm	1	B2F2712	CJM	06/27/2022	06/28/2022
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Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: [none]
 Project: KMG - Rademacher 35-30 Wellhead

Native-BG01@3'
6/24/2022 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206619-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.714	0.100	mg/L	1	B2F2709	KAP	06/27/2022	06/28/2022
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Metals by Saturated Paste by EPA 6010

Calcium	2.54	0.499	meq/L	10	[CALC]	KAP	06/27/2022	06/28/2022
Magnesium	3.07	0.823	"	"	"	KAP	"	"
Sodium	2.38	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.25		pH Units	1	B2F2713	CJM	06/27/2022	06/28/2022
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SAR by 20B Saturated Paste

SAR	1.42		SAR	1	B2F2707	KAP	06/27/2022	06/28/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.792	0.00500	mmhos/cm	1	B2F2713	CJM	06/27/2022	06/28/2022
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Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: [none]
 Project: KMG - Rademacher 35-30 Wellhead

Native-BG01@6'
6/24/2022 1:42:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206619-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.441	0.100	mg/L	1	B2F2709	KAP	06/27/2022	06/28/2022
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Metals by Saturated Paste by EPA 6010

Calcium	3.08	0.499	meq/L	10	[CALC]	KAP	06/27/2022	06/28/2022
Magnesium	4.26	0.823	"	"	"	KAP	"	"
Sodium	2.58	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.24		pH Units	1	B2F2713	CJM	06/27/2022	06/28/2022
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SAR by 20B Saturated Paste

SAR	1.35		SAR	1	B2F2707	KAP	06/27/2022	06/28/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.971	0.00500	mmhos/cm	1	B2F2713	CJM	06/27/2022	06/28/2022
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Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: [none]
 Project: KMG - Rademacher 35-30 Wellhead

Native-BG02@3'
6/24/2022 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206619-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.962	0.100	mg/L	1	B2F2709	KAP	06/27/2022	06/28/2022
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Metals by Saturated Paste by EPA 6010

Calcium	2.08	0.499	meq/L	10	[CALC]	KAP	06/27/2022	06/28/2022
Magnesium	2.57	0.823	"	"	"	KAP	"	"
Sodium	2.37	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.33		pH Units	1	B2F2713	CJM	06/27/2022	06/28/2022
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SAR by 20B Saturated Paste

SAR	1.55		SAR	1	B2F2707	KAP	06/27/2022	06/28/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.736	0.00500	mmhos/cm	1	B2F2713	CJM	06/27/2022	06/28/2022
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Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: [none]
 Project: KMG - Rademacher 35-30 Wellhead

Native-BG02@6'
6/24/2022 1:47:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206619-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.537	0.100	mg/L	1	B2F2709	KAP	06/27/2022	06/28/2022
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Metals by Saturated Paste by EPA 6010

Calcium	2.37	0.499	meq/L	10	[CALC]	KAP	06/27/2022	06/28/2022
Magnesium	4.16	0.823	"	"	"	KAP	"	"
Sodium	4.87	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.37		pH Units	1	B2F2713	CJM	06/27/2022	06/28/2022
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SAR by 20B Saturated Paste

SAR	2.69		SAR	1	B2F2707	KAP	06/27/2022	06/28/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.08	0.00500	mmhos/cm	1	B2F2713	CJM	06/27/2022	06/28/2022
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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: [none]
 Project: KMG - Rademacher 35-30 Wellhead

Native-BG03@3'
6/24/2022 1:49:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206619-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.687	0.100	mg/L	1	B2F2710	KAP	06/27/2022	06/28/2022
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Metals by Saturated Paste by EPA 6010

Calcium	2.24	0.499	meq/L	10	[CALC]	KAP	06/27/2022	06/28/2022
Magnesium	3.00	0.823	"	"	"	KAP	"	"
Sodium	2.49	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.27		pH Units	1	B2F2713	CJM	06/27/2022	06/28/2022
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SAR by 20B Saturated Paste

SAR	1.54		SAR	1	B2F2707	KAP	06/27/2022	06/28/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.815	0.00500	mmhos/cm	1	B2F2713	CJM	06/27/2022	06/28/2022
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Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: [none]
 Project: KMG - Rademacher 35-30 Wellhead

Native-BG03@6'
6/24/2022 1:52:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206619-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.501	0.100	mg/L	1	B2F2710	KAP	06/27/2022	06/28/2022
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Metals by Saturated Paste by EPA 6010

Calcium	2.17	0.499	meq/L	10	[CALC]	KAP	06/27/2022	06/28/2022
Magnesium	3.36	0.823	"	"	"	KAP	"	"
Sodium	3.33	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.32		pH Units	1	B2F2713	CJM	06/27/2022	06/28/2022
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SAR by 20B Saturated Paste

SAR	2.00		SAR	1	B2F2707	KAP	06/27/2022	06/28/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.911	0.00500	mmhos/cm	1	B2F2713	CJM	06/27/2022	06/28/2022
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Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: [none]
 Project: KMG - Rademacher 35-30 Wellhead

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2F2423 - EPA 3550B										
Blank (B2F2423-BLK1)										
					Prepared: 06/24/2022 Analyzed: 06/24/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		86.7	50-150			

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: [none]
 Project: KMG - Rademacher 35-30 Wellhead

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F2423 - EPA 3550B

LCS (B2F2423-BS1)

Prepared: 06/24/2022 Analyzed: 06/24/2022

Diesel (C10-C28)	1040	50.0	mg/kg	1000		104	70-130			
Residual Range Organics (C28-C40)	924	200	"	1000		92.4	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: [none]
 Project: KMG - Rademacher 35-30 Wellhead

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F2423 - EPA 3550B

Matrix Spike (B2F2423-MS1)	Source: Y206610-01			Prepared: 06/24/2022 Analyzed: 06/24/2022						
Diesel (C10-C28)	1010	50.0	mg/kg	1000	ND	101	70-130			
Residual Range Organics (C28-C40)	878	200	"	1000	ND	87.8	70-130			
Surrogate: o-Terphenyl	40		"	49.8		80.0	50-150			

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: [none]
 Project: KMG - Rademacher 35-30 Wellhead

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F2423 - EPA 3550B

Matrix Spike Dup (B2F2423-MSD1)	Source: Y206610-01			Prepared: 06/24/2022 Analyzed: 06/25/2022						
Diesel (C10-C28)	974	50.0	mg/kg	1000	ND	97.4	70-130	3.28	35	
Residual Range Organics (C28-C40)	894	200	"	1000	ND	89.4	70-130	1.76	35	
Surrogate: o-Terphenyl	47		"	49.8		94.9	50-150			

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: [none]
 Project: KMG - Rademacher 35-30 Wellhead

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F2425 - EPA 5030 (soil)

Blank (B2F2425-BLK1)

Prepared: 06/24/2022 Analyzed: 06/24/2022

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	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125	91.9		70-130			
Surrogate: Toluene-d8	0.11		"	0.125	90.2		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	100		70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: [none]
 Project: KMG - Rademacher 35-30 Wellhead

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F2425 - EPA 5030 (soil)

LCS (B2F2425-BS1)

Prepared: 06/24/2022 Analyzed: 06/24/2022

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	0.103	0.00200	"	0.100		103	70-130			
Ethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Naphthalene	0.107	0.0100	"	0.100		107	70-130			
Toluene	0.0968	0.00200	"	0.100		96.8	70-130			
o-Xylene	0.105	0.00200	"	0.100		105	70-130			
m,p-Xylene	0.219	0.00400	"	0.200		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.5	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: [none]
 Project: KMG - Rademacher 35-30 Wellhead

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F2425 - EPA 5030 (soil)

Matrix Spike (B2F2425-MS1)	Source: Y206610-01			Prepared: 06/24/2022 Analyzed: 06/24/2022						
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	0.000480	102	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Benzene	0.103	0.00200	"	0.100	ND	103	70-130			
Ethylbenzene	0.0976	0.00200	"	0.100	ND	97.6	70-130			
Naphthalene	0.114	0.0100	"	0.100	0.00158	112	70-130			
Toluene	0.0922	0.00200	"	0.100	ND	92.2	70-130			
o-Xylene	0.0984	0.00200	"	0.100	ND	98.4	70-130			
m,p-Xylene	0.200	0.00400	"	0.200	ND	99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.2	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		89.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: [none]
 Project: KMG - Rademacher 35-30 Wellhead

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F2425 - EPA 5030 (soil)

Matrix Spike Dup (B2F2425-MSD1)	Source: Y206610-01			Prepared: 06/24/2022 Analyzed: 06/24/2022						
1,2,4-Trimethylbenzene	0.100	0.00200	mg/kg	0.100	0.000480	99.5	70-130	2.10	20	
1,3,5-Trimethylbenzene	0.0994	0.00200	"	0.100	ND	99.4	70-130	2.01	20	
Benzene	0.101	0.00200	"	0.100	ND	101	70-130	1.63	20	
Ethylbenzene	0.0960	0.00200	"	0.100	ND	96.0	70-130	1.72	20	
Naphthalene	0.110	0.0100	"	0.100	0.00158	108	70-130	3.49	20	
Toluene	0.0909	0.00200	"	0.100	ND	90.9	70-130	1.40	20	
o-Xylene	0.0970	0.00200	"	0.100	ND	97.0	70-130	1.43	20	
m,p-Xylene	0.197	0.00400	"	0.200	ND	98.3	70-130	1.67	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.7	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		88.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: [none]
 Project: KMG - Rademacher 35-30 Wellhead

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F2712 - NO PREP

Blank (B2F2712-BLK1)

Prepared: 06/27/2022 Analyzed: 06/28/2022

pH 0.00 pH Units
 Specific Conductance (EC) 0.00440 0.00500 mmhos/cm

Duplicate (B2F2712-DUP1)

Source: Y206610-02

Prepared: 06/27/2022 Analyzed: 06/28/2022

pH 8.13 pH Units 8.14 0.123 25
 Specific Conductance (EC) 6.07 0.00500 mmhos/cm 6.22 2.53 25

Batch B2F2713 - NO PREP

Blank (B2F2713-BLK1)

Prepared: 06/27/2022 Analyzed: 06/28/2022

pH 0.00 pH Units
 Specific Conductance (EC) 0.00370 0.00500 mmhos/cm

Duplicate (B2F2713-DUP1)

Source: Y206619-04

Prepared: 06/27/2022 Analyzed: 06/28/2022

Specific Conductance (EC) 0.810 0.00500 mmhos/cm 0.792 2.18 25
 pH 8.26 pH Units 8.25 0.121 25

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Rademacher 35-30 Wellhead

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

August 10, 2022

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

**Project Name - KMG - Rademacher 35-30
Wellhead**

Project Number - [none]

Attached are your analytical results for KMG - Rademacher 35-30 Wellhead received by Origins Laboratory, Inc. August 03, 2022. This project is associated with Origins project number Y208078-01.

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

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

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

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

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

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Rademacher 35-30 Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01@8'	Y208078-01	Soil	August 3, 2022 11:12	08/03/2022 13:15

Origins Laboratory, Inc.



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

Jeremy Espinoza
 Project Number: [none]
 Project: KMG - Rademacher 35-30 Wellhead

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y208078

Client: Ensolum

Client Project ID: KMG-Rademacher 35-30 WH

Checklist Completed by: MS

Date/time completed: 8/2/22

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

Airbill #: NA

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


Cooler Number/Temperature: 147 °C / _____ °C / _____ °C (Describe)

Thermometer ID: T004

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 in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 8/3/22

Origins Laboratory, Inc.


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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Rademacher 35-30 Wellhead

FL01@8'

8/3/2022 11:12:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208078-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	KAP	08/04/2022	08/05/2022	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	2.11	0.435	"	"	"	KAP	"	"	

SAR by 20B Saturated Paste

SAR	5.05		SAR	1	B2H0408	KAP	"	"	
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Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Rademacher 35-30 Wellhead

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: [none]

Project: KMG - Rademacher 35-30 Wellhead

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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