

TABLE 1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
FRANK 10-31 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	1/24/2024	3	0.0	NS	NO	40.268105	-104.930035	N
E Wall	1/24/2024	3	0.0	NS	NO	40.268091	-104.930006	N
S Wall	1/24/2024	3	0.0	NS	NO	40.268079	-104.930033	N
W Wall	1/24/2024	3	0.0	NS	NO	40.268087	-104.930051	N
WH01-RISER@3'	1/24/2024	3	0.0	NS	NO	40.268105	-104.930031	Y
B01@6'	1/24/2024	6	0.0	NS	NO	40.268091	-104.930037	Y
FS01	1/24/2024	0.5	0.0	NS	NO	40.26813	-104.930049	N
FS02	1/24/2024	0.5	0.0	NS	NO	40.268096	-104.929973	N
FS03	1/24/2024	0.5	0.0	NS	NO	40.26805	-104.930047	N
FS04	1/24/2024	0.5	0.0	NS	NO	40.268088	-104.930094	N
FLOWLINE POTHOLE SAMPLES								
PH01	1/26/2024	4	0.0	NS	NO	40.262953	-104.927696	N
PH02	1/26/2024	5	0.0	NS	NO	40.26319	-104.927698	N
PH03	1/29/2024	4	0.1	NS	NO	40.263409	-104.927721	N
PH04	1/29/2024	4	0.1	NS	NO	40.263638	-104.927711	N
PH05	1/29/2024	2	0.2	NS	NO	40.263921	-104.927712	N
PH06	1/29/2024	4	1.3	NS	NO	40.264165	-104.927701	N
PH07	1/29/2024	4	0.2	NS	NO	40.264451	-104.927698	N
PH08	1/29/2024	4	0.1	NS	NO	40.264744	-104.927699	N
PH09	1/29/2024	4	0.2	NS	NO	40.265037	-104.927702	N
PH10	1/29/2024	4	0.0	NS	NO	40.265347	-104.927682	N
PH11	1/30/2024	4	5.4	NS	NO	40.265582	-104.927692	N
PH12	1/30/2024	4	4.1	NS	NO	40.265844	-104.927678	N
PH13	1/30/2024	4	1.7	NS	NO	40.266084	-104.92768	N
PH14	1/30/2024	4	1.9	NS	NO	40.266342	-104.927668	N
PH15	1/30/2024	4	1.4	NS	NO	40.266606	-104.927678	N
PH16	1/30/2024	4	0.6	NS	NO	40.266911	-104.927678	N
PH17	1/30/2024	4	0.0	NS	NO	40.267197	-104.927666	N
PH18	1/30/2024	4	1.9	NS	NO	40.267501	-104.927654	N
FL01@3'	1/30/2024	3	0.2	NS	NO	40.267693	-104.927657	Y
PH20	1/31/2024	3	4.8	NS	NO	40.26773	-104.927853	N
PH21	1/31/2024	3	0.6	NS	NO	40.267751	-104.928003	N
PH22	1/31/2024	4	1.1	NS	NO	40.267801	-104.92827	N
PH23	1/31/2024	4	0.8	NS	NO	40.267845	-104.928537	N
PH24	1/31/2024	3	0.6	NS	NO	40.267897	-104.928855	N
PH25	1/31/2024	3	0.7	NS	NO	40.267949	-104.929124	N

TABLE 1
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FRANK 10-31 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)
PH26	1/31/2024	4	1.1	NS	NO	40.268	-104.929438	N
PH27	1/31/2024	4	1.6	NS	NO	40.268056	-104.929736	N
BACKGROUND SOIL SAMPLES								
NATIVE-BG01@3'	1/24/2024	3	0.9	NS	NO	40.268168	-104.930048	Y
NATIVE-BG01@6'	1/24/2024	6	0.1	NS	NO	40.268168	-104.930048	Y
NATIVE-BG02@3'	1/24/2024	3	1.0	NS	NO	40.268014	-104.930102	Y
NATIVE-BG02@6'	1/24/2024	6	1.0	NS	NO	40.268014	-104.930102	Y
NATIVE-BG03@3'	1/24/2024	3	0.6	NS	NO	40.268086	-104.930176	Y
NATIVE-BG03@6'	1/24/2024	6	0.7	NS	NO	40.268086	-104.930176	Y

Notes:

ft. - feet	NS - No Staining
bgs - below ground surface	NO - No Odor
PID - Photoionization detector	NA - Not Analyzed/Not Applicable
ppm - parts per million	

TABLE 2-1
SOIL SAMPLE ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS AND TOTAL PETROLEUM HYDROCARBONS
FRANK 10-31 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)
ECMC Table 915-1 Cleanup Concentrations (PGSSL)			500			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038
WELLHEAD EXCAVATION SAMPLES												
WH01-RISER@3'	1/24/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
B01@6'	1/24/2024	6	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
FLOWLINE POTHOLE SAMPLES												
FL01@3'	1/30/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002

Notes:

ECMC - Energy and Carbon Management Commission

PGSSL - Protection of Groundwater Soil Screening Level Concentrations

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

ft - feet

bgs - below ground surface

mg/kg - milligrams per kilogram

< - less than laboratory reporting limit

NA - Not Analyzed/Not Applicable

Bold - exceeds ECMC Table 915-1 allowable level and background

TABLE 2-2
SOIL SAMPLE ANALYTICAL RESULTS
SOIL SUITABILITY FOR RECLAMATION
FRANK 10-31 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)
ECMC Table 915-1 Cleanup Concentrations			4	6	6-8.3	2
Site-Specific Background Limits			0.959	3.6	8.61	1.55
WELLHEAD EXCAVATION SAMPLES						
WH01-RISER@3'	1/24/2024	3	0.739	0.311	8.39*	0.572
B01@6'	1/24/2024	6	0.409	0.348	8.30	0.399
FLOWLINE POTHOLE SAMPLES						
FL01@3'	1/30/2024	3	0.55	0.907	8.51*	0.443
BACKGROUND SAMPLES						
Native-BG01@3'	1/24/2024	3	0.453	1.47	8.41	0.768
Native-BG01@6'	1/24/2024	6	0.796	3.60	8.47	0.446
Native-BG02@3'	1/24/2024	3	0.538	0.824	8.39	0.432
Native-BG02@6'	1/24/2024	6	0.629	1.97	8.49	1.51
Native-BG03@3'	1/24/2024	3	0.723	1.63	8.61	1.15
Native-BG03@6'	1/24/2024	6	0.96	2.33	8.50	1.55

Notes:

ECMC - Energy and Carbon Management Commission

EC - electrical conductivity

SAR - sodium adsorption ratio

< - less than laboratory reporting limit

NA - Not Analyzed/Not Applicable

Bold - exceeds ECMC Table 915-1 allowable level and background

*Exceeds Table 915-1 allowable level but within background

If site-specific backgrounds are less than cleanup concentrations, then cleanup concentration values will be applied.

ft - feet

bgs - below ground surface

mmhos/cm - millimhos per centimeter

mg/L - milligrams per liter

February 01, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Frank 10-31 Wellhead**Project Number - 09A1417573**

Attached are your analytical results for KMG - Frank 10-31 Wellhead received by Origins Laboratory, Inc. January 24, 2024. This project is associated with Origins project number Y401593-01.

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: 09A1417573

Project: KMG - Frank 10-31 Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@6'	Y401593-01	Soil	January 24, 2024 15:30	01/24/2024 17:21
WH01-RISER@3'	Y401593-02	Soil	January 24, 2024 15:35	01/24/2024 17:21
NATIVE-BG01@3'	Y401593-03	Soil	January 24, 2024 15:40	01/24/2024 17:21
NATIVE-BG01@6'	Y401593-04	Soil	January 24, 2024 15:45	01/24/2024 17:21
NATIVE-BG02@3'	Y401593-05	Soil	January 24, 2024 15:50	01/24/2024 17:21
NATIVE-BG02@6'	Y401593-06	Soil	January 24, 2024 15:55	01/24/2024 17:21
NATIVE-BG03@3'	Y401593-07	Soil	January 24, 2024 16:00	01/24/2024 17:21
NATIVE-BG03@6'	Y401593-08	Soil	January 24, 2024 16:05	01/24/2024 17:21

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417573

Project: KMG - Frank 10-31 Wellhead

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

ORIGINS
LABORATORY, INC

Client: Ensolum
Address: _____
Telephone Number: _____
Email Address: KMGteam

Project Manager: J. Espinoza
Project Name: Frank 10-31 Wellhead
Project Number: 09A1417573
Samples Collected By: HK

Initial 11/24/24
1401593
www.originslaboratory.com
page 1 of 1

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil		
BOLE6'	1/24/24	1535	3	X					X	X	
W-01-R15RC3'	1/24/24	1535	3	X					X	X	
NATIVE-BOLE6'	1/24/24	1540	2							X	
NATIVE-BOLE6'	1/24/24	1545	1								
NATIVE-BOLE6'	1/24/24	1550	1								
NATIVE-BOLE6'	1/24/24	1555	1								
NATIVE-BOLE6'	1/24/24	1600	1								
NATIVE-BOLE6'	1/24/24	1605	1								

Relinquished By: [Signature] Date: 1/24/24 Time: 172
Received By: [Signature] Date: 1/24/24 Time: 172

Temp Received: 5 Date Results Needed: _____

Turnaround Time:
☒ Same Day
☐ 24 Hr
☐ 48 Hr
☐ 72 Hr
☐ Standard

Origins Laboratory, Inc.

J. Bynon

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417573

Project: KMG - Frank 10-31 Wellhead

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4401593

Client: Ensolum

Client Project ID: Frank 10-31 WH

Checklist Completed by: EHS

Shipped Via: HO

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

Date/time completed: 1/24/24

Airbill #: N/A

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

Cooler Number/Temperature: 115 °C 1 °C 1 °C (Describe) _____ °C

Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input type="checkbox"/>	<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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<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 type="checkbox"/>	<input type="checkbox"/>	<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 1/24/24

Origins Laboratory, Inc.

[Signature]

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

Jeremy Espinoza
Project Number: 09A1417573
Project: KMG - Frank 10-31 Wellhead

B01@6'

1/24/2024 3:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401593-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.399	0.0999	mg/L	1	B4A2508	ACC	01/25/2024	01/26/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A2434	ZZZ	01/24/2024	01/25/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	98.8 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A2446	HK	01/24/2024	01/24/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Naphthalene	ND	0.00380	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"
Surrogate: Toluene-d8	91.7 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	82.8 %	70-130			"	"	"

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417573

Project: KMG - Frank 10-31 Wellhead

B01@6'

1/24/2024 3:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y401593-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.70	0.499	meq/L	10	[CALC]	ACC	01/25/2024	01/26/2024
Magnesium	1.33	0.823	"	"	"	ACC	"	"
Sodium	ND	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.30		pH Units	1	B4A2518	EAL	01/25/2024	01/26/2024
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SAR by 20B Saturated Paste

SAR	0.348	0.0100	SAR	1	B4A2513	ACC	01/25/2024	01/26/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.409	0.00500	mmhos/cm	1	B4A2518	EAL	01/25/2024	01/26/2024
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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: 09A1417573
Project: KMG - Frank 10-31 Wellhead

WH01-RISER@3'
1/24/2024 3:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401593-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.572	0.101	mg/L	1	B4A2508	ACC	01/25/2024	01/26/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A2436	ZZZ	01/24/2024	01/25/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	86.5 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A2446	HK	01/24/2024	01/24/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Naphthalene	ND	0.00380	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	89.4 %	70-130			"	"	"
Surrogate: Toluene-d8	88.1 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	89.7 %	70-130			"	"	"

Origins Laboratory, Inc.



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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417573

Project: KMG - Frank 10-31 Wellhead

WH01-RISER@3'

1/24/2024 3:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y401593-02 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	2.62	0.499	meq/L	10	[CALC]	ACC	01/25/2024	01/26/2024
Magnesium	2.99	0.823	"	"	"	ACC	"	"
Sodium	0.520	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.39		pH Units	1	B4A2518	EAL	01/25/2024	01/26/2024
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SAR by 20B Saturated Paste

SAR	0.311	0.0100	SAR	1	B4A2513	ACC	01/25/2024	01/26/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.739	0.00500	mmhos/cm	1	B4A2518	EAL	01/25/2024	01/26/2024
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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: 09A1417573

Project: KMG - Frank 10-31 Wellhead

NATIVE-BG01@3'

1/24/2024 3:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y401593-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.768	0.0986	mg/L	1	B4A2508	ACC	01/25/2024	01/26/2024
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Metals by Saturated Paste by EPA 6010

Calcium	0.677	0.499	meq/L	10	[CALC]	ACC	01/25/2024	01/26/2024
Magnesium	1.69	0.823	"	"	"	ACC	"	"
Sodium	1.60	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.41		pH Units	1	B4A2518	EAL	01/25/2024	01/26/2024
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SAR by 20B Saturated Paste

SAR	1.47	0.0100	SAR	1	B4A2513	ACC	01/25/2024	01/26/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.453	0.00500	mmhos/cm	1	B4A2518	EAL	01/25/2024	01/26/2024
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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: 09A1417573
Project: KMG - Frank 10-31 Wellhead

NATIVE-BG01@6'
1/24/2024 3:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401593-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.446	0.101	mg/L	1	B4A2508	ACC	01/25/2024	01/26/2024
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Metals by Saturated Paste by EPA 6010

Calcium	0.764	0.499	meq/L	10	[CALC]	ACC	01/25/2024	01/26/2024
Magnesium	1.77	0.823	"	"	"	ACC	"	"
Sodium	4.05	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.47		pH Units	1	B4A2518	EAL	01/25/2024	01/26/2024
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SAR by 20B Saturated Paste

SAR	3.60	0.0100	SAR	1	B4A2513	ACC	01/25/2024	01/26/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.796	0.00500	mmhos/cm	1	B4A2518	EAL	01/25/2024	01/26/2024
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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417573

Project: KMG - Frank 10-31 Wellhead

NATIVE-BG02@3'

1/24/2024 3:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y401593-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.432	0.100	mg/L	1	B4A2508	ACC	01/25/2024	01/26/2024
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Metals by Saturated Paste by EPA 6010

Calcium	1.36	0.499	meq/L	10	[CALC]	ACC	01/25/2024	01/26/2024
Magnesium	2.40	0.823	"	"	"	ACC	"	"
Sodium	1.13	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.39		pH Units	1	B4A2518	EAL	01/25/2024	01/26/2024
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SAR by 20B Saturated Paste

SAR	0.824	0.0100	SAR	1	B4A2513	ACC	01/25/2024	01/26/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.538	0.00500	mmhos/cm	1	B4A2518	EAL	01/25/2024	01/26/2024
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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417573

Project: KMG - Frank 10-31 Wellhead

NATIVE-BG02@6'

1/24/2024 3:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y401593-06 (Soil)

Boron (DTPA Sorbitol)

Boron	1.51	0.0989	mg/L	1	B4A2508	ACC	01/25/2024	01/26/2024
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Metals by Saturated Paste by EPA 6010

Calcium	0.872	0.499	meq/L	10	[CALC]	ACC	01/25/2024	01/26/2024
Magnesium	2.06	0.823	"	"	"	ACC	"	"
Sodium	2.39	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.49		pH Units	1	B4A2518	EAL	01/25/2024	01/26/2024
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SAR by 20B Saturated Paste

SAR	1.97	0.0100	SAR	1	B4A2513	ACC	01/25/2024	01/26/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.629	0.00500	mmhos/cm	1	B4A2518	EAL	01/25/2024	01/26/2024
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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417573
Project: KMG - Frank 10-31 Wellhead

NATIVE-BG03@3'
1/24/2024 4:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401593-07 (Soil)

Boron (DTPA Sorbitol)

Boron	1.15	0.0995	mg/L	1	B4A2508	ACC	01/25/2024	01/26/2024
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	ACC	01/25/2024	01/26/2024
Magnesium	3.62	0.823	"	"	"	ACC	"	"
Sodium	2.34	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.61		pH Units	1	B4A2518	EAL	01/25/2024	01/26/2024
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SAR by 20B Saturated Paste

SAR	1.63	0.0100	SAR	1	B4A2513	ACC	01/25/2024	01/26/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.723	0.00500	mmhos/cm	1	B4A2518	EAL	01/25/2024	01/26/2024
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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417573

Project: KMG - Frank 10-31 Wellhead

NATIVE-BG03@6'

1/24/2024 4:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y401593-08 (Soil)

Boron (DTPA Sorbitol)

Boron	1.55	0.0997	mg/L	1	B4A2508	ACC	01/25/2024	01/26/2024
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Metals by Saturated Paste by EPA 6010

Calcium	1.19	0.499	meq/L	10	[CALC]	ACC	01/25/2024	01/26/2024
Magnesium	3.74	0.823	"	"	"	ACC	"	"
Sodium	3.66	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.50		pH Units	1	B4A2518	EAL	01/25/2024	01/26/2024
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SAR by 20B Saturated Paste

SAR	2.33	0.0100	SAR	1	B4A2513	ACC	01/25/2024	01/26/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.959	0.00500	mmhos/cm	1	B4A2518	EAL	01/25/2024	01/26/2024
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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417573

Project: KMG - Frank 10-31 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 B4A2434 - EPA 3550B										
Blank (B4A2434-BLK1)					Prepared: 01/24/2024 Analyzed: 01/24/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		96.6	50-150			

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417573

Project: KMG - Frank 10-31 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 B4A2434 - EPA 3550B

LCS (B4A2434-BS1)

Prepared: 01/24/2024 Analyzed: 01/24/2024

Diesel (C10-C28)	908	50.0	mg/kg	1000		90.8	70-130			
Residual Range Organics (C28-C40)	870	200	"	1000		87.0	70-130			
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417573

Project: KMG - Frank 10-31 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 B4A2434 - EPA 3550B

Matrix Spike (B4A2434-MS1)		Source: Y401584-02			Prepared: 01/24/2024 Analyzed: 01/24/2024					
Diesel (C10-C28)	943	50.0	mg/kg	1000	ND	94.3	70-130			
Residual Range Organics (C28-C40)	912	200	"	1000	ND	91.2	70-130			
Surrogate: o-Terphenyl	56		"	49.8		113	50-150			

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Jeremy Espinoza

Project Number: 09A1417573

Project: KMG - Frank 10-31 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 B4A2434 - EPA 3550B

Matrix Spike Dup (B4A2434-MSD1)		Source: Y401584-02			Prepared: 01/24/2024 Analyzed: 01/24/2024					
Diesel (C10-C28)	935	50.0	mg/kg	1000	ND	93.5	70-130	0.822	35	
Residual Range Organics (C28-C40)	899	200	"	1000	ND	89.9	70-130	1.38	35	
Surrogate: o-Terphenyl	55		"	49.8		110	50-150			

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417573

Project: KMG - Frank 10-31 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 B4A2436 - EPA 3550B										
Blank (B4A2436-BLK1)					Prepared: 01/24/2024 Analyzed: 01/25/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		86.5	50-150			

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417573

Project: KMG - Frank 10-31 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 B4A2436 - EPA 3550B

LCS (B4A2436-BS1)

Prepared: 01/24/2024 Analyzed: 01/25/2024

Diesel (C10-C28)	936	50.0	mg/kg	1000		93.6	70-130			
Residual Range Organics (C28-C40)	1020	200	"	1000		102	70-130			
Surrogate: o-Terphenyl	56		"	49.8		112	50-150			

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417573

Project: KMG - Frank 10-31 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 B4A2436 - EPA 3550B

Matrix Spike (B4A2436-MS1)		Source: Y401593-02			Prepared: 01/24/2024 Analyzed: 01/25/2024					
Diesel (C10-C28)	964	50.0	mg/kg	1000	ND	96.4	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	70-130			
Surrogate: o-Terphenyl	55		"	49.8		110	50-150			

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417573

Project: KMG - Frank 10-31 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 B4A2436 - EPA 3550B

Matrix Spike Dup (B4A2436-MSD1)		Source: Y401593-02			Prepared: 01/24/2024 Analyzed: 01/25/2024					
Diesel (C10-C28)	928	50.0	mg/kg	1000	ND	92.8	70-130	3.85	35	
Residual Range Organics (C28-C40)	996	200	"	1000	ND	99.6	70-130	4.31	35	
Surrogate: o-Terphenyl	42		"	49.8		84.1	50-150			

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

Jeremy Espinoza
Project Number: 09A1417573
Project: KMG - Frank 10-31 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 B4A2446 - EPA 5030 (soil)										
Blank (B4A2446-BLK1)					Prepared: 01/24/2024 Analyzed: 01/24/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	106		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.6		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	101		70-130			

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

Jeremy Espinoza
Project Number: 09A1417573
Project: KMG - Frank 10-31 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
Batch B4A2446 - EPA 5030 (soil)										
LCS (B4A2446-BS1)					Prepared: 01/24/2024 Analyzed: 01/24/2024					
1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100		111	70-130			
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Benzene	0.0955	0.00200	"	0.100		95.5	70-130			
Ethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Naphthalene	0.104	0.00380	"	0.100		104	70-130			
Toluene	0.0976	0.00200	"	0.100		97.6	70-130			
o-Xylene	0.107	0.00200	"	0.100		107	70-130			
m,p-Xylene	0.205	0.00400	"	0.200		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.2	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417573
Project: KMG - Frank 10-31 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
Batch B4A2446 - EPA 5030 (soil)										
Matrix Spike (B4A2446-MS1)		Source: Y401571-01			Prepared: 01/24/2024 Analyzed: 01/24/2024					
1,2,4-Trimethylbenzene	0.0926	0.00200	mg/kg	0.100	ND	92.6	70-130			
1,3,5-Trimethylbenzene	0.0927	0.00200	"	0.100	ND	92.7	70-130			
Benzene	0.0883	0.00200	"	0.100	ND	88.3	70-130			
Ethylbenzene	0.0888	0.00200	"	0.100	ND	88.8	70-130			
Naphthalene	0.0855	0.00380	"	0.100	ND	85.5	70-130			
Toluene	0.0879	0.00200	"	0.100	ND	87.9	70-130			
o-Xylene	0.0928	0.00200	"	0.100	ND	92.8	70-130			
m,p-Xylene	0.179	0.00400	"	0.200	ND	89.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.4	70-130			

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417573
Project: KMG - Frank 10-31 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
Batch B4A2446 - EPA 5030 (soil)										
Matrix Spike Dup (B4A2446-MSD1)		Source: Y401571-01			Prepared: 01/24/2024 Analyzed: 01/24/2024					
1,2,4-Trimethylbenzene	0.0917	0.00200	mg/kg	0.100	ND	91.7	70-130	0.933	20	
1,3,5-Trimethylbenzene	0.0907	0.00200	"	0.100	ND	90.7	70-130	2.16	20	
Benzene	0.0879	0.00200	"	0.100	ND	87.9	70-130	0.477	20	
Ethylbenzene	0.0866	0.00200	"	0.100	ND	86.6	70-130	2.49	20	
Naphthalene	0.0851	0.00380	"	0.100	ND	85.1	70-130	0.446	20	
Toluene	0.0849	0.00200	"	0.100	ND	84.9	70-130	3.49	20	
o-Xylene	0.0916	0.00200	"	0.100	ND	91.6	70-130	1.32	20	
m,p-Xylene	0.175	0.00400	"	0.200	ND	87.5	70-130	2.22	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.9	70-130			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417573
Project: KMG - Frank 10-31 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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Classical Chemistry Parameters - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A2508 - DTPA Sorbitol Preparation

Blank (B4A2508-BLK1)

Prepared: 01/25/2024 Analyzed: 01/26/2024

Boron ND 0.100 mg/L

Duplicate (B4A2508-DUP1)

Source: Y401592-01

Prepared: 01/25/2024 Analyzed: 01/26/2024

Boron 1.24 0.101 mg/L 1.14 8.95 50

Batch B4A2513 - Saturated Paste Metals

Blank (B4A2513-BLK1)

Prepared: 01/25/2024 Analyzed: 01/26/2024

Calcium PPM ND 10.0 mg/L

SAR ND 0.0100 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

Duplicate (B4A2513-DUP1)

Source: Y401593-01

Prepared: 01/25/2024 Analyzed: 01/26/2024

Calcium PPM 38.4 10.0 mg/L 34.1 11.9 50

SAR ND 0.0100 SAR 0.348 200

Magnesium PPM 23.1 10.0 mg/L 16.2 35.3 50

Sodium PPM 12.6 10.0 " 9.85 24.4 50

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417573
Project: KMG - Frank 10-31 Wellhead

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A2518 - Saturated Paste pH/EC										
Blank (B4A2518-BLK1)					Prepared: 01/25/2024 Analyzed: 01/26/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4A2518-DUP1)					Source: Y401593-01 Prepared: 01/25/2024 Analyzed: 01/26/2024					
Specific Conductance (EC)	0.513	0.00500	mmhos/cm		0.409			22.4	25	
pH	8.33		pH Units		8.30			0.361	25	

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417573

Project: KMG - Frank 10-31 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.



February 02, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Frank 10-31 Wellhead

Project Number - 09A1417573

Attached are your analytical results for KMG - Frank 10-31 Wellhead received by Origins Laboratory, Inc. January 30, 2024. This project is associated with Origins project number Y401741-01.

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



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: 09A1417573

Project: KMG - Frank 10-31 Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01@3'	Y401741-01	Soil	January 30, 2024 15:05	01/30/2024 16:15

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417573

Project: KMG - Frank 10-31 Wellhead

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1401741

Client: Ensolum

Client Project ID: Frank 10-31

Checklist Completed by: EHS

Shipped Via: HD

Date/time completed: 1/30/24

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

Airbill #: N/A

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

Cooler Number/Temperature: 1, 7 °C 1 °C 1 °C (Describe) _____ °C

Thermometer ID: 1004

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"/>	<input checked="" type="checkbox"/>		<u>SD</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<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"/>	<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<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"/>	<input type="checkbox"/>	<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.

Jeremy Espinoza
Reviewed by (Project Manager)

1/30/24
Date/Time Reviewed

Origins Laboratory, Inc.

J. Bynon

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

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

Jeremy Espinoza
Project Number: 09A1417573
Project: KMG - Frank 10-31 Wellhead

FL01@3'
1/30/2024 3:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401741-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.443	0.0998	mg/L	1	B4A3108	ACC	01/31/2024	02/01/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A3004	ZZZ	01/30/2024	01/30/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	82.6 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A3030	JSM	01/30/2024	01/31/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"
Surrogate: Toluene-d8	100 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	92.4 %	70-130			"	"	"

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417573

Project: KMG - Frank 10-31 Wellhead

FL01@3'

1/30/2024 3:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y401741-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	2.62	0.499	meq/L	10	[CALC]	ACC	01/31/2024	02/01/2024
Magnesium	1.40	0.823	"	"	"	ACC	"	"
Sodium	1.29	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.51		pH Units	1	B4A3116	EAL	01/31/2024	02/01/2024
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SAR by 20B Saturated Paste

SAR	0.907	0.0100	SAR	1	B4A3112	ACC	01/31/2024	02/01/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.545	0.00500	mmhos/cm	1	B4A3116	EAL	01/31/2024	02/01/2024
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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417573

Project: KMG - Frank 10-31 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 B4A3004 - EPA 3550B

Blank (B4A3004-BLK1)

Prepared: 01/30/2024 Analyzed: 01/30/2024

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	24.9		102	50-150			

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417573

Project: KMG - Frank 10-31 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 B4A3004 - EPA 3550B

LCS (B4A3004-BS1)

Prepared: 01/30/2024 Analyzed: 01/30/2024

Diesel (C10-C28)	1110	50.0	mg/kg	1000		111	70-130			
Residual Range Organics (C28-C40)	1190	200	"	1000		119	70-130			
Surrogate: o-Terphenyl	54		"	49.8		108	50-150			

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417573

Project: KMG - Frank 10-31 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 B4A3004 - EPA 3550B

Matrix Spike (B4A3004-MS1)		Source: Y401731-01			Prepared: 01/30/2024 Analyzed: 01/30/2024					
Diesel (C10-C28)	1180	50.0	mg/kg	1000	ND	118	70-130			
Residual Range Organics (C28-C40)	1270	200	"	1000	ND	127	70-130			
Surrogate: o-Terphenyl	74		"	49.8		149	50-150			

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Jeremy Espinoza

Project Number: 09A1417573

Project: KMG - Frank 10-31 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 B4A3004 - EPA 3550B

Matrix Spike Dup (B4A3004-MSD1)		Source: Y401731-01			Prepared: 01/30/2024 Analyzed: 01/30/2024					
Diesel (C10-C28)	1190	50.0	mg/kg	1000	ND	119	70-130	0.842	35	
Residual Range Organics (C28-C40)	1240	200	"	1000	ND	124	70-130	2.01	35	
Surrogate: o-Terphenyl	50		"	49.8		99.6	50-150			

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417573
Project: KMG - Frank 10-31 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 B4A3030 - EPA 5030 (soil)										
Blank (B4A3030-BLK1)					Prepared: 01/30/2024 Analyzed: 01/30/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		119	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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Ensolum
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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417573
Project: KMG - Frank 10-31 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
Batch B4A3030 - EPA 5030 (soil)										
LCS (B4A3030-BS1)					Prepared: 01/30/2024 Analyzed: 01/30/2024					
1,2,4-Trimethylbenzene	0.116	0.00200	mg/kg	0.100		116	70-130			
1,3,5-Trimethylbenzene	0.117	0.00200	"	0.100		117	70-130			
Benzene	0.106	0.00200	"	0.100		106	70-130			
Ethylbenzene	0.123	0.00200	"	0.100		123	70-130			
Naphthalene	0.0980	0.00380	"	0.100		98.0	70-130			
Toluene	0.112	0.00200	"	0.100		112	70-130			
o-Xylene	0.116	0.00200	"	0.100		116	70-130			
m,p-Xylene	0.239	0.00400	"	0.200		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.16		"	0.125		124	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417573
Project: KMG - Frank 10-31 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
Batch B4A3030 - EPA 5030 (soil)										
Matrix Spike (B4A3030-MS1)		Source: Y401697-01			Prepared: 01/30/2024 Analyzed: 01/30/2024					
1,2,4-Trimethylbenzene	0.123	0.00200	mg/kg	0.100	0.00134	122	70-130			
1,3,5-Trimethylbenzene	0.121	0.00200	"	0.100	ND	121	70-130			
Benzene	0.107	0.00200	"	0.100	ND	107	70-130			
Ethylbenzene	0.122	0.00200	"	0.100	ND	122	70-130			
Naphthalene	0.117	0.00380	"	0.100	0.00242	114	70-130			
Toluene	0.116	0.00200	"	0.100	0.000540	115	70-130			
o-Xylene	0.122	0.00200	"	0.100	ND	122	70-130			
m,p-Xylene	0.278	0.00400	"	0.200	0.000940	138	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		85.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		109	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417573
Project: KMG - Frank 10-31 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
Batch B4A3030 - EPA 5030 (soil)										
Matrix Spike Dup (B4A3030-MSD1)		Source: Y401697-01			Prepared: 01/30/2024 Analyzed: 01/30/2024					
1,2,4-Trimethylbenzene	0.122	0.00200	mg/kg	0.100	0.00134	121	70-130	0.686	20	
1,3,5-Trimethylbenzene	0.121	0.00200	"	0.100	ND	121	70-130	0.215	20	
Benzene	0.120	0.00200	"	0.100	ND	120	70-130	11.3	20	
Ethylbenzene	0.123	0.00200	"	0.100	ND	123	70-130	0.573	20	
Naphthalene	0.122	0.00380	"	0.100	0.00242	120	70-130	4.51	20	
Toluene	0.122	0.00200	"	0.100	0.000540	122	70-130	5.36	20	
o-Xylene	0.123	0.00200	"	0.100	ND	123	70-130	0.898	20	
m,p-Xylene	0.271	0.00400	"	0.200	0.000940	135	70-130	2.43	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417573

Project: KMG - Frank 10-31 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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Classical Chemistry Parameters - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A3108 - DTPA Sorbitol Preparation

Blank (B4A3108-BLK1)

Prepared: 01/31/2024 Analyzed: 02/01/2024

Boron ND 0.100 mg/L

Duplicate (B4A3108-DUP1)

Source: Y401739-21

Prepared: 01/31/2024 Analyzed: 02/01/2024

Boron 0.349 0.0997 mg/L 0.279 22.2 50

Batch B4A3112 - Saturated Paste Metals

Blank (B4A3112-BLK1)

Prepared: 01/31/2024 Analyzed: 02/01/2024

Calcium PPM ND 10.0 mg/L

SAR ND 0.0100 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

Duplicate (B4A3112-DUP1)

Source: Y401658-12

Prepared: 01/31/2024 Analyzed: 02/01/2024

Calcium PPM 192 10.0 mg/L 204 6.09 50

SAR ND 0.0100 SAR 5.81 200

Magnesium PPM 132 10.0 mg/L 129 2.61 50

Sodium PPM 434 10.0 " 430 0.895 50

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417573
Project: KMG - Frank 10-31 Wellhead

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A3116 - Saturated Paste pH/EC										
Blank (B4A3116-BLK1)					Prepared: 01/31/2024 Analyzed: 02/01/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4A3116-DUP1)					Source: Y401658-12 Prepared: 01/31/2024 Analyzed: 02/01/2024					
Specific Conductance (EC)	2.88	0.00500	mmhos/cm		2.88			0.243	25	
pH	8.35		pH Units		8.35			0.00	25	

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Project: KMG - Frank 10-31 Wellhead

Notes and Definitions

U Sample is Non-Detect.

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 at a wet weight basis.

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