

October 27, 2022

KP Kauffman Co. Inc.

Levi Kirk

1700 Lincoln St #4550

Denver CO 80203

Project Name - KOCH 41-6

Project Number - -

Attached are your analytical results for KOCH 41-6 received by Origins Laboratory, Inc. October 17, 2022. This project is associated with Origins project number Y210370-01.

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



KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-1@5'	Y210370-01	Soil	October 17, 2022 11:05	10/17/2022 12:59
SW-2@5'	Y210370-02	Soil	October 17, 2022 11:10	10/17/2022 12:59
SW-3@5'	Y210370-03	Soil	October 17, 2022 11:15	10/17/2022 12:59
SW-4@5'	Y210370-04	Soil	October 17, 2022 11:25	10/17/2022 12:59
BH-1@6'	Y210370-05	Soil	October 17, 2022 11:30	10/17/2022 12:59

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

ORIGINS

LABORATORY, INC

www.originslaboratory.com

4210370

page 1 of 1

Client: K.P. KAUFFMAN (Koch) Project Manager: LEVI KIRK
Address: 1075 Broadway Project Name: KOCH 41-6
DENVER, CO 80202 Project Number:
Telephone Number: 303-825-4822 Samples Collected By: B.W.
Email Address: PrimaryContractor@macmillan.com

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 Summa Continer #			Other
SW-1 Q.5'	10-17-22	1105	2	X					X				1
SW-2 Q.5'		1110	1										2
SW-3 Q.5'		1115	1										3
SW-4 Q.5'		1125	1										4
BH-1 Q.6'		1130	1										5
													6
													7
													8
													9
													10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<i>[Signature]</i>	10-17-22	1300	ETHS	10/17/22	1259	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>

Temp Received: 17.4 Date Results Needed

Origins Laboratory, Inc.

[Signature]

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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

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

Sample Receipt Checklist

Origins Work Order: 4210370 Client: KP Kauffman
Client Project ID: KOCH 41-6

Checklist Completed by: EHS / OE Shipped Via: HD
Date/time completed: 10/17/22 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: NA

Matrix(s) Received: (Check all that apply): Y Soil/Solid Water Other:
Cooler Number/Temperature: 1 17.4 °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		Same day
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)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		X		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
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)			X	
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) JLB

10-18-22
Date/Time Reviewed

Origins Laboratory, Inc.

J. Bynon

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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

SW-1@5'

10/17/2022 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y210370-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.190	0.0988	mg/L	1	B2J1915	10/19/2022	10/20/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2J1803	10/18/2022	10/25/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	114 %	50-150			"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2J1811	10/18/2022	10/20/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	83.9 %	70-130			"	"	"
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Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

SW-1@5'

10/17/2022 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y210370-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.4 %	70-130	B2J18 11	10/18/2022	10/20/2022
Surrogate: 4-Bromofluorobenzene	89.9 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.09	0.499	meq/L	10	[CALC]	10/18/2022	10/20/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	6.56	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L644214	10/20/2022	10/20/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Project: KOCH 41-6

SW-1@5'

10/17/2022 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC. Y210370-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L644214	10/20/2022	10/20/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	53.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	57.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	57.5 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.41	pH Units	1	B2J1917	10/19/2022	10/20/2022
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SAR by 20B Saturated Paste

SAR	8.02	SAR	1	B2J1821	10/18/2022	10/20/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.29	0.00500	mmhos/cm	1	B2J1917	10/19/2022	10/20/2022
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Table 915 metals by EPA 6020B

Arsenic	4.71	0.0937	mg/kg	10	B2J2019	10/20/2022	10/24/2022
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1700 Lincoln St #4550
Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

SW-1@5'

10/17/2022 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y210370-01 (Soil)

Table 915 metals by EPA 6020B

Barium	145	9.37	mg/kg	10	B2J2019	10/20/2022	10/24/2022
Cadmium	0.167	0.0937	"	"	"	"	"
Copper	14.1	9.37	"	"	"	"	"
Lead	10.5	9.37	"	"	"	"	"
Nickel	15.1	9.37	"	"	"	"	"
Selenium	0.177	0.0937	"	"	"	"	"
Silver	ND	0.0937	"	"	"	"	"
Zinc	ND	93.7	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.247	0.507	mg/Kg	1	L644783	10/17/2022	10/24/2022
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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

SW-2@5'

10/17/2022 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y210370-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0989	mg/L	1	B2J1915	10/19/2022	10/20/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2J1803	10/18/2022	10/25/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	99.1 %	50-150		"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2J1811	10/18/2022	10/20/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	78.9 %	70-130		"	"	"
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Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

SW-2@5'

10/17/2022 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y210370-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.8 %	70-130	B2J18 11	10/18/2022	10/20/2022
Surrogate: 4-Bromofluorobenzene	91.2 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	2.17	0.499	meq/L	10	[CALC]	10/18/2022	10/20/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L644214	10/20/2022	10/20/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.000468	0.000394	0.00067	"	"	"	"	"

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Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

SW-2@5'

10/17/2022 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC. Y210370-02 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L644214	10/20/2022	10/20/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	54.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	66.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	57.4 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.11	pH Units	1	B2J1917	10/19/2022	10/20/2022
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SAR by 20B Saturated Paste

SAR	0.330	SAR	1	B2J1821	10/18/2022	10/20/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.331	0.00500	mmhos/cm	1	B2J1917	10/19/2022	10/20/2022
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Table 915 metals by EPA 6020B

Arsenic	3.08	0.0988	mg/kg	10	B2J2019	10/20/2022	10/24/2022
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1700 Lincoln St #4550
Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

SW-2@5'

10/17/2022 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y210370-02 (Soil)

Table 915 metals by EPA 6020B

Barium	54.2	9.88	mg/kg	10	B2J2019	10/20/2022	10/24/2022
Cadmium	0.117	0.0988	"	"	"	"	"
Copper	ND	9.88	"	"	"	"	"
Lead	ND	9.88	"	"	"	"	"
Nickel	ND	9.88	"	"	"	"	"
Selenium	0.111	0.0988	"	"	"	"	"
Silver	ND	0.0988	"	"	"	"	"
Zinc	ND	98.8	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.507	1.04	mg/Kg	2	L644783	10/17/2022	10/24/2022
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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

SW-3@5'

10/17/2022 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y210370-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B2J1915	10/19/2022	10/20/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2J1803	10/18/2022	10/25/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	96.1 %	50-150			"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2J1811	10/18/2022	10/20/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	82.9 %	70-130			"	"	"
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Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

SW-3@5'

10/17/2022 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y210370-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	101 %	70-130	B2J18 11	10/18/2022	10/20/2022
Surrogate: 4-Bromofluorobenzene	88.8 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.61	0.499	meq/L	10	[CALC]	10/18/2022	10/20/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L644214	10/20/2022	10/20/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

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.

KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

SW-3@5'

10/17/2022 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y210370-03 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L644214	10/20/2022	10/20/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	55.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	59.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	57.1 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.25	pH Units	1	B2J1917	10/19/2022	10/20/2022
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SAR by 20B Saturated Paste

SAR	0.375	SAR	1	B2J1821	10/18/2022	10/20/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.254	0.00500	mmhos/cm	1	B2J1917	10/19/2022	10/20/2022
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Table 915 metals by EPA 6020B

Arsenic	4.28	0.0979	mg/kg	10	B2J2019	10/20/2022	10/24/2022
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Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

SW-3@5'

10/17/2022 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y210370-03 (Soil)

Table 915 metals by EPA 6020B

Barium	127	9.79	mg/kg	10	B2J2019	10/20/2022	10/24/2022
Cadmium	0.159	0.0979	"	"	"	"	"
Copper	12.7	9.79	"	"	"	"	"
Lead	10.0	9.79	"	"	"	"	"
Nickel	14.8	9.79	"	"	"	"	"
Selenium	0.168	0.0979	"	"	"	"	"
Silver	ND	0.0979	"	"	"	"	"
Zinc	ND	97.9	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L644783	10/17/2022	10/24/2022
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Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

SW-4@5'

10/17/2022 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y210370-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B2J1915	10/19/2022	10/20/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2J1803	10/18/2022	10/25/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	87.9 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2J1811	10/18/2022	10/20/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	80.4 %	70-130	"	"	"
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Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

SW-4@5'

10/17/2022 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y210370-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	95.9 %	70-130	B2J18 11	10/18/2022	10/20/2022
Surrogate: 4-Bromofluorobenzene	94.9 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.05	0.499	meq/L	10	[CALC]	10/18/2022	10/20/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	11.9	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L644214	10/20/2022	10/20/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

SW-4@5'

10/17/2022 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC. Y210370-04 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L644214	10/20/2022	10/20/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	52.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	57.2 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	55.4 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.13	pH Units	1	B2J1917	10/19/2022	10/20/2022
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SAR by 20B Saturated Paste

SAR	13.8	SAR	1	B2J1821	10/18/2022	10/20/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.45	0.00500	mmhos/cm	1	B2J1917	10/19/2022	10/20/2022
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Table 915 metals by EPA 6020B

Arsenic	4.44	0.0969	mg/kg	10	B2J2019	10/20/2022	10/24/2022
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Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

SW-4@5'

10/17/2022 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y210370-04 (Soil)

Table 915 metals by EPA 6020B

Barium	122	9.69	mg/kg	10	B2J2019	10/20/2022	10/24/2022
Cadmium	0.146	0.0969	"	"	"	"	"
Copper	12.7	9.69	"	"	"	"	"
Lead	10.1	9.69	"	"	"	"	"
Nickel	15.7	9.69	"	"	"	"	"
Selenium	0.104	0.0969	"	"	"	"	"
Silver	ND	0.0969	"	"	"	"	"
Zinc	ND	96.9	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.248	0.51	mg/Kg	1	L644783	10/17/2022	10/24/2022
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Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

BH-1@6'

10/17/2022 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y210370-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.348	0.0998	mg/L	1	B2J1915	10/19/2022	10/20/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2J1803	10/18/2022	10/25/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	87.3 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2J1811	10/18/2022	10/20/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	82.7 %	70-130	"	"	"
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Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

BH-1@6'

10/17/2022 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y210370-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	95.5 %	70-130	B2J18 11	10/18/2022	10/20/2022
Surrogate: 4-Bromofluorobenzene	93.6 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.529	0.499	meq/L	10	[CALC]	10/18/2022	10/20/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	4.13	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L644214	10/20/2022	10/20/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

BH-1@6'

10/17/2022 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y210370-05 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L644214	10/20/2022	10/20/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	46.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	55.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	51.1 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.53	pH Units	1	B2J1917	10/19/2022	10/20/2022
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SAR by 20B Saturated Paste

SAR	7.00	SAR	1	B2J1821	10/18/2022	10/20/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.541	0.00500	mmhos/cm	1	B2J1917	10/19/2022	10/20/2022
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Table 915 metals by EPA 6020B

Arsenic	4.68	0.0985	mg/kg	10	B2J2019	10/20/2022	10/24/2022
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Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

BH-1@6'

10/17/2022 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y210370-05 (Soil)

Table 915 metals by EPA 6020B

Barium	204	9.85	mg/kg	10	B2J2019	10/20/2022	10/24/2022
Cadmium	0.167	0.0985	"	"	"	"	"
Copper	12.9	9.85	"	"	"	"	"
Lead	11.1	9.85	"	"	"	"	"
Nickel	14.2	9.85	"	"	"	"	"
Selenium	0.160	0.0985	"	"	"	"	"
Silver	ND	0.0985	"	"	"	"	"
Zinc	ND	98.5	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L644783	10/17/2022	10/24/2022
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Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

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 B2J1803 - EPA 3550B										
Blank (B2J1803-BLK1)					Prepared: 10/18/2022 Analyzed: 10/25/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		104	50-150			

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

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 B2J1803 - EPA 3550B

LCS (B2J1803-BS1)

Prepared: 10/18/2022 Analyzed: 10/25/2022

Diesel (C10-C28)	1220	50.0	mg/kg	1000		122	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000		105	70-130			
Surrogate: o-Terphenyl	50		"	49.8		100	50-150			

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

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 B2J1803 - EPA 3550B

Matrix Spike (B2J1803-MS1)		Source: Y210343-01			Prepared: 10/18/2022 Analyzed: 10/25/2022					
Diesel (C10-C28)	1180	50.0	mg/kg	1000	ND	118	70-130			
Residual Range Organics (C28-C40)	1060	200	"	1000	ND	106	70-130			
Surrogate: o-Terphenyl	45		"	49.8		90.5	50-150			

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

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 B2J1803 - EPA 3550B

Matrix Spike Dup (B2J1803-MSD1)		Source: Y210343-01			Prepared: 10/18/2022 Analyzed: 10/25/2022					
Diesel (C10-C28)	1170	50.0	mg/kg	1000	ND	117	70-130	1.09	35	
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130	2.09	35	
Surrogate: o-Terphenyl	45		"	49.8		91.5	50-150			

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

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 B2J1811 - EPA 5030 (soil)										
Blank (B2J1811-BLK1)					Prepared: 10/18/2022 Analyzed: 10/20/2022					
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	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125	80.7		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	102		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	91.2		70-130			

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

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 B2J1811 - EPA 5030 (soil)										
LCS (B2J1811-BS1)					Prepared: 10/18/2022 Analyzed: 10/20/2022					
1,2,4-Trimethylbenzene	0.0917	0.00200	mg/kg	0.100		91.7	70-130			
1,3,5-Trimethylbenzene	0.0918	0.00200	"	0.100		91.8	70-130			
Benzene	0.102	0.00200	"	0.100		102	70-130			
Ethylbenzene	0.0973	0.00200	"	0.100		97.3	70-130			
Naphthalene	0.0818	0.00380	"	0.100		81.8	70-130			
Toluene	0.0930	0.00200	"	0.100		93.0	70-130			
o-Xylene	0.0895	0.00200	"	0.100		89.5	70-130			
m,p-Xylene	0.199	0.00400	"	0.200		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.093		"	0.125		74.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.7	70-130			

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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

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 B2J1811 - EPA 5030 (soil)										
Matrix Spike (B2J1811-MS1)		Source: Y210340-01			Prepared: 10/18/2022 Analyzed: 10/20/2022					
1,2,4-Trimethylbenzene	0.0789	0.00200	mg/kg	0.100	ND	78.9	70-130			
1,3,5-Trimethylbenzene	0.0794	0.00200	"	0.100	ND	79.4	70-130			
Benzene	0.0886	0.00200	"	0.100	ND	88.6	70-130			
Ethylbenzene	0.0808	0.00200	"	0.100	ND	80.8	70-130			
Naphthalene	0.0671	0.00380	"	0.100	ND	67.1	70-130			QM-07
Toluene	0.0834	0.00200	"	0.100	ND	83.4	70-130			
o-Xylene	0.0805	0.00200	"	0.100	ND	80.5	70-130			
m,p-Xylene	0.163	0.00400	"	0.200	ND	81.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.096		"	0.125		76.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

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 B2J1811 - EPA 5030 (soil)										
Matrix Spike Dup (B2J1811-MSD1)		Source: Y210340-01			Prepared: 10/18/2022 Analyzed: 10/20/2022					
1,2,4-Trimethylbenzene	0.0773	0.00200	mg/kg	0.100	ND	77.3	70-130	2.10	20	
1,3,5-Trimethylbenzene	0.0778	0.00200	"	0.100	ND	77.8	70-130	2.04	20	
Benzene	0.0965	0.00200	"	0.100	ND	96.5	70-130	8.54	20	
Ethylbenzene	0.0861	0.00200	"	0.100	ND	86.1	70-130	6.35	20	
Naphthalene	0.0659	0.00380	"	0.100	ND	65.9	70-130	1.92	20	QM-07
Toluene	0.0860	0.00200	"	0.100	ND	86.0	70-130	3.12	20	
o-Xylene	0.0865	0.00200	"	0.100	ND	86.5	70-130	7.23	20	
m,p-Xylene	0.170	0.00400	"	0.200	ND	85.0	70-130	4.45	20	
Surrogate: 1,2-Dichloroethane-d4	0.098		"	0.125		78.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

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Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

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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***** DEFAULT GENERAL METHOD *** - 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 B2J2019 - Default Prep Metals

Blank (B2J2019-BLK1)

Prepared: 10/20/2022 Analyzed: 10/24/2022

Arsenic	ND	0.000100	mg/kg
Barium	ND	0.0100	"
Cadmium	ND	0.000100	"
Copper	ND	0.0100	"
Lead	ND	0.0100	"
Nickel	ND	0.0100	"
Selenium	ND	0.000100	"
Silver	ND	0.000100	"
Zinc	ND	0.100	"

LCS (B2J2019-BS1)

Prepared: 10/20/2022 Analyzed: 10/24/2022

Arsenic	0.0548	0.000100	mg/kg	0.0500	110	80-120
Barium	0.0516	0.0100	"	0.0500	103	80-120
Cadmium	0.0523	0.000100	"	0.0500	105	80-120
Copper	0.0530	0.0100	"	0.0500	106	80-120
Lead	0.0515	0.0100	"	0.0500	103	80-120
Nickel	0.0534	0.0100	"	0.0500	107	80-120
Selenium	0.0495	0.000100	"	0.0500	99.0	80-120
Silver	0.0547	0.000100	"	0.0500	109	80-120
Zinc	0.0506	0.100	"	0.0500	101	80-120

Matrix Spike (B2J2019-MS1)

Source: Y210366-01

Prepared: 10/20/2022 Analyzed: 10/24/2022

Origins Laboratory, Inc.



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Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

*** DEFAULT GENERAL METHOD *** - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2J2019 - Default Prep Metals										
Matrix Spike (B2J2019-MS1)		Source: Y210366-01			Prepared: 10/20/2022 Analyzed: 10/24/2022					
Arsenic	7.66	0.0993	mg/kg	4.97	2.50	104	75-125			
Barium	98.8	9.93	"	4.97	86.1	256	75-125			QM-07
Cadmium	5.64	0.0993	"	4.97	0.336	107	75-125			
Copper	17.0	9.93	"	4.97	11.2	117	75-125			
Lead	20.3	9.93	"	4.97	14.3	119	75-125			
Nickel	12.4	9.93	"	4.97	6.78	114	75-125			
Selenium	5.08	0.0993	"	4.97	0.181	98.7	75-125			
Silver	5.63	0.0993	"	4.97	0.165	110	75-125			
Zinc	55.9	99.3	"	4.97	48.5	150	75-125			QM-07
Matrix Spike Dup (B2J2019-MSD1)		Source: Y210366-01			Prepared: 10/20/2022 Analyzed: 10/24/2022					
Arsenic	7.89	0.0994	mg/kg	4.97	2.50	108	75-125	2.98	20	
Barium	92.9	9.94	"	4.97	86.1	135	75-125	6.23	20	QM-07
Cadmium	5.63	0.0994	"	4.97	0.336	106	75-125	0.322	20	
Copper	16.6	9.94	"	4.97	11.2	107	75-125	2.80	20	
Lead	20.0	9.94	"	4.97	14.3	114	75-125	1.32	20	
Nickel	11.7	9.94	"	4.97	6.78	99.3	75-125	6.08	20	
Selenium	5.00	0.0994	"	4.97	0.181	97.0	75-125	1.52	20	
Silver	5.78	0.0994	"	4.97	0.165	113	75-125	2.49	20	
Zinc	53.7	99.4	"	4.97	48.5	106	75-125	4.00	20	

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

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 B2J1821 - Default Prep Metals

Blank (B2J1821-BLK1)

Prepared: 10/18/2022 Analyzed: 10/20/2022

Calcium PPM	ND	10.0	mg/L
SAR	0.00		SAR
Magnesium PPM	ND	10.0	mg/L
Sodium PPM	ND	10.0	"

Duplicate (B2J1821-DUP1)

Source: Y210353-07

Prepared: 10/18/2022 Analyzed: 10/20/2022

Calcium PPM	6.69	10.0	mg/L	4.70	34.9	50
SAR	0.00		SAR	0.214	200	200
Magnesium PPM	1.35	10.0	mg/L	0.951	34.9	50
Sodium PPM	2.28	10.0	"	1.94	16.0	50

Batch B2J1915 - Default Prep Metals

Blank (B2J1915-BLK1)

Prepared: 10/19/2022 Analyzed: 10/20/2022

Boron	ND	0.100	mg/L
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Duplicate (B2J1915-DUP1)

Source: Y210370-01

Prepared: 10/19/2022 Analyzed: 10/20/2022

Boron	0.193	0.100	mg/L	0.190	1.39	50
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Levi Kirk
Project Number: -
Project: KOCH 41-6

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2J1917 - NO PREP										
Blank (B2J1917-BLK1)					Prepared: 10/19/2022 Analyzed: 10/20/2022					
pH	0.00		pH Units							
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B2J1917-DUP1)					Source: Y210353-07 Prepared: 10/19/2022 Analyzed: 10/20/2022					
pH	7.80		pH Units		7.65			1.94	25	
Specific Conductance (EC)	0.0712	0.00500	mmhos/cm		0.0623			13.3	25	

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1700 Lincoln St #4550
Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L644214 - 3550B

MSD (L 99114-MSD-L644214)		Source: Y210370-05			Prepared: 10/20/2022 Analyzed: 10/20/2022					
Dibenz(a,h)anthracene	0.113	0.00067	mg/Kg	0.164	<0.000614	68.9	30-130	8.4	30	
Pyrene	0.119	0.00067	"	0.164	<0.000643	72.5	30-130	20.2	30	
Naphthalene	0.102	0.00067	"	0.164	<0.000484	62.1	30-130	17	30	
1-Methylnaphthalene	0.105	0.00067	"	0.164	<0.000364	64	30-130	17.8	30	
Fluorene	0.115	0.00067	"	0.164	<0.000286	70.1	30-130	20.9	30	
2-Methylnaphthalene	0.108	0.00067	"	0.164	<0.000645	65.8	30-130	19.9	30	
Indeno(1,2,3-cd)pyrene	0.0996	0.00067	"	0.164	<0.000627	60.7	30-130	12.6	30	
Acenaphthene	0.108	0.00067	"	0.164	<0.000304	65.8	30-130	17.9	30	
Anthracene	0.12	0.00067	"	0.164	<0.000334	73.1	30-130	21.6	30	
Benzo(a)anthracene	0.123	0.00067	"	0.164	<0.000493	75	30-130	20.6	30	
Benzo(b)fluoranthene	0.0915	0.00067	"	0.164	<0.000585	55.7	30-130	9.8	30	
Benzo(k)fluoranthene	0.102	0.00067	"	0.164	<0.000437	62.1	30-130	11.9	30	
Chrysene	0.121	0.00067	"	0.164	<0.000624	73.7	30-130	21.7	30	
Fluoranthene	0.124	0.00067	"	0.164	<0.000394	75.6	30-130	23.7	30	
Benzo(a)pyrene	0.141	0.00067	"	0.164	<0.000468	85.9	30-130	20.3	30	
Surrogate: Nitrobenzene-d5	58.3		"	0.329	166	58.3	29-110			
Surrogate: 4-Terphenyl-d14	69.9		"	0.329	180	69.9	33-122			
Surrogate: 2-Fluorobiphenyl	60.4		"	0.329	152	60.4	33-115			

MS (L 99114-MS-L644214)		Source: Y210370-05			Prepared: 10/20/2022 Analyzed: 10/20/2022					
Indeno(1,2,3-cd)pyrene	0.113	0.00067	mg/Kg	0.164	<0.000627	68.9	30-130			
Pyrene	0.0971	0.00067	"	0.164	<0.000643	59.2	30-130			
Benzo(k)fluoranthene	0.115	0.00067	"	0.164	<0.000437	70.1	30-130			
Chrysene	0.0973	0.00067	"	0.164	<0.000624	59.3	30-130			
Dibenz(a,h)anthracene	0.123	0.00067	"	0.164	<0.000614	75	30-130			
Fluoranthene	0.0977	0.00067	"	0.164	<0.000394	59.5	30-130			
Naphthalene	0.086	0.00067	"	0.164	<0.000484	52.4	30-130			

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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L644214 - 3550B

MS (L 99114-MS-L644214)		Source: Y210370-05			Prepared: 10/20/2022 Analyzed: 10/20/2022					
Benzo(b)fluoranthene	0.101	0.00067	mg/Kg	0.164	<0.000585	61.5	30-130			
Acenaphthene	0.0902	0.00067	"	0.164	<0.000304	55	30-130			
Fluorene	0.0932	0.00067	"	0.164	<0.000286	56.8	30-130			
Benzo(a)anthracene	0.1	0.00067	"	0.164	<0.000493	60.9	30-130			
Anthracene	0.0966	0.00067	"	0.164	<0.000334	58.9	30-130			
2-Methylnaphthalene	0.0884	0.00067	"	0.164	<0.000645	53.9	30-130			
1-Methylnaphthalene	0.0878	0.00067	"	0.164	<0.000364	53.5	30-130			
Benzo(a)pyrene	0.115	0.00067	"	0.164	<0.000468	70.1	30-130			
Surrogate: Nitrobenzene-d5	52.8		"	0.329	166	52.8	29-110			
Surrogate: 4-Terphenyl-d14	57.7		"	0.329	180	57.7	33-122			
Surrogate: 2-Fluorobiphenyl	51		"	0.329	152	51	33-115			

LCS (LCS-L644214)		Prepared: 10/20/2022 Analyzed: 10/20/2022								
Benzo(b)fluoranthene	0.109	0.00067	mg/Kg	0.167		65.2	30-130			
Benzo(k)fluoranthene	0.11	0.00067	"	0.167		65.8	30-130			
Chrysene	0.117	0.00067	"	0.167		70	30-130			
Dibenz(a,h)anthracene	0.149	0.00067	"	0.167		89.2	30-130			
Fluorene	0.107	0.00067	"	0.167		64	30-130			
Benzo(a)pyrene	0.138	0.00067	"	0.167		82.6	30-130			
Fluoranthene	0.118	0.00067	"	0.167		70.6	30-130			
Pyrene	0.122	0.00067	"	0.167		73	30-130			
Naphthalene	0.099	0.00067	"	0.167		59.2	30-130			
Anthracene	0.113	0.00067	"	0.167		67.6	30-130			
Acenaphthene	0.102	0.00067	"	0.167		61	30-130			
2-Methylnaphthalene	0.102	0.00067	"	0.167		61	30-130			
1-Methylnaphthalene	0.101	0.00067	"	0.167		60.4	30-130			
Indeno(1,2,3-cd)pyrene	0.141	0.00067	"	0.167		84.4	30-130			

Origins Laboratory, Inc.



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1700 Lincoln St #4550
Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L644214 - 3550B										
LCS (LCS-L644214)					Prepared: 10/20/2022 Analyzed: 10/20/2022					
Benzo(a)anthracene	0.118	0.00067	mg/Kg	0.167		70.6	30-130			
Surrogate: Nitrobenzene-d5	65.7		"	0.333		65.7	29-110			
Surrogate: 4-Terphenyl-d14	72.6		"	0.333		72.6	33-122			
Surrogate: 2-Fluorobiphenyl	63.6		"	0.333		63.6	33-115			
LRB (LRB-L644214)					Prepared: 10/20/2022 Analyzed: 10/20/2022					
Naphthalene	ND	0.00067	mg/Kg				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	64.5		"	0.333		64.5	33-115			
Surrogate: Nitrobenzene-d5	68.1		"	0.333		68.1	29-110			
Surrogate: 4-Terphenyl-d14	73.2		"	0.333		73.2	33-122			

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Project Number: -
Project: KOCH 41-6

Total Metals by 7196A - Quality Control Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L644783 -										
DUP (L 99110-DUP)		Source: Y210370-01			Prepared: Analyzed: 10/24/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
MS (L 99110-MS)		Source: Y210370-01			Prepared: Analyzed: 10/24/2022					
Chromium, Hexavalent	33.4	2.5	mg/Kg	39.1	< 0.247	85	75-125			
MSD (L 99110-MSD)		Source: Y210370-01			Prepared: Analyzed: 10/24/2022					
Chromium, Hexavalent	638	51.8	mg/Kg	667	<25.3	96	75-125			
LCS (LCS)					Prepared: Analyzed: 10/24/2022					
Chromium, Hexavalent	7.26	0.5	mg/Kg	8		91	75-125			
LRB (LRB)					Prepared: Analyzed: 10/24/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg							

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

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.

J Estimated Value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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