

March 28, 2024

KP Kauffman Co. Inc.

John Peterson

1700 Lincoln St #4550

Denver CO 80203

Project Name - Klein 24-8 Flowline

Project Number - [none]

Attached are your analytical results for Klein 24-8 Flowline received by Origins Laboratory, Inc. March 04, 2024. This project is associated with Origins project number Y403063-01.

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

John Peterson
Project Number: [none]
Project: Klein 24-8 Flowline

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-1	Y403063-01	Soil	March 4, 2024 10:45	03/04/2024 13:30
SW-2	Y403063-02	Soil	March 4, 2024 10:50	03/04/2024 13:30
SW-3	Y403063-03	Soil	March 4, 2024 10:55	03/04/2024 13:30
SW-4	Y403063-04	Soil	March 4, 2024 11:00	03/04/2024 13:30
BH-1	Y403063-05	Soil	March 4, 2024 11:05	03/04/2024 13:30

Origins Laboratory, Inc.



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

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y403063 Client: KPK
 Client Project ID: Klein 24-8 Flowline
 Checklist Completed by: SALEHS Shipped Via: HD
 Date/time completed: 3/4/24 (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 / 4 °C _____ / _____ °C _____ / _____ °C (Describe)
 Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

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

Reviewed by (Project Manager)

316124
 Date/Time Reviewed

Origins Laboratory, Inc.



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

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

SW-1

3/4/2024 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403063-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.162		0.0986	mg/L	1	B4C1111	03/11/2024	03/12/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	134		25.0	mg/kg	1	B4C0634	03/06/2024	03/12/2024	
Residual Range Organics (C28-C40)	718		100	"	"	"	"	"	

Surrogate: o-Terphenyl	102 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4C0502	03/05/2024	03/06/2024	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.8 %		70-130			"	"	"	
Surrogate: Toluene-d8	98.0 %		70-130			"	"	"	

Origins Laboratory, Inc.



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

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

SW-1

3/4/2024 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403063-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	101 %	70-130				B4C05 02	03/05/2024	03/06/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	1.78	0.499	meq/L	10	[CALC]		03/11/2024	03/12/2024	
Magnesium	ND	0.823	"	"	"	"	"	"	
Sodium	ND	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.003	0.002	mg/kg	1	B4C0644		03/06/2024	03/08/2024	
2-Methylnaphthalene	0.002	0.002	"	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	"	U

Origins Laboratory, Inc.



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

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

SW-1

3/4/2024 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403063-01 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B4C0644	03/06/2024	03/08/2024	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	94.8 %		60-130			"	"	"	
Surrogate: Anthracene-d10	101 %		60-130			"	"	"	
Surrogate: Pyrene-d10	85.3 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.7 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.08			pH Units	1	B4C1114	03/11/2024	03/12/2024	
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SAR by 20B Saturated Paste

SAR	0.122		0.0100	SAR	1	B4C1103	03/11/2024	03/12/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.231		0.00500	mmhos/cm	1	B4C1114	03/11/2024	03/12/2024	
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Table 915 metals by EPA 6020B

Arsenic	0.783		0.272	mg/kg	10	B4C0647	03/06/2024	03/21/2024	
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KP Kauffman Co. Inc.
 1700 Lincoln St #4550
 Denver CO 80203

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

SW-1

3/4/2024 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403063-01 (Soil)

Table 915 metals by EPA 6020B

Barium	25.6		9.39	mg/kg	10	B4C0647	03/06/2024	03/21/2024	
Cadmium	ND		0.0939	"	"	"	"	"	
Copper	ND		9.39	"	"	"	"	"	
Lead	5.24		0.939	"	"	"	"	"	
Nickel	2.77		0.939	"	"	"	"	"	
Selenium	ND		0.244	"	"	"	"	"	
Silver	ND		0.0939	"	"	"	"	"	
Zinc	ND		34.8	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L740641	03/04/2024	03/26/2024	
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KP Kauffman Co. Inc.
 1700 Lincoln St #4550
 Denver CO 80203

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

SW-2

3/4/2024 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403063-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.122		0.100	mg/L	1	B4C1111	03/11/2024	03/12/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	31.1		25.0	mg/kg	1	B4C0634	03/06/2024	03/12/2024	
Residual Range Organics (C28-C40)	198		100	"	"	"	"	"	

Surrogate: o-Terphenyl	95.8 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4C0502	03/05/2024	03/06/2024	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.3 %		70-130			"	"	"	
Surrogate: Toluene-d8	99.0 %		70-130			"	"	"	

Origins Laboratory, Inc.



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

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

SW-2

3/4/2024 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403063-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	99.6 %		70-130			B4C05 02	03/05/2024	03/06/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	1.47	0.499	meq/L	10	[CALC]		03/11/2024	03/12/2024	
Magnesium	ND	0.823	"	"	"	"	"	"	
Sodium	ND	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4C0644		03/06/2024	03/08/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	"	U

Origins Laboratory, Inc.



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

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

SW-2

3/4/2024 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403063-02 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B4C0644	03/06/2024	03/08/2024	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	90.9 %		60-130			"	"	"	
Surrogate: Anthracene-d10	101 %		60-130			"	"	"	
Surrogate: Pyrene-d10	116 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.5 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.08			pH Units	1	B4C1114	03/11/2024	03/12/2024	
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SAR by 20B Saturated Paste

SAR	0.111		0.0100	SAR	1	B4C1103	03/11/2024	03/12/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.225		0.00500	mmhos/cm	1	B4C1114	03/11/2024	03/12/2024	
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Table 915 metals by EPA 6020B

Arsenic	0.878		0.261	mg/kg	10	B4C0647	03/06/2024	03/21/2024	
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KP Kauffman Co. Inc.
 1700 Lincoln St #4550
 Denver CO 80203

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

SW-2

3/4/2024 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403063-02 (Soil)

Table 915 metals by EPA 6020B

Barium	28.9		9.01	mg/kg	10	B4C0647	03/06/2024	03/21/2024	
Cadmium	ND		0.0901	"	"	"	"	"	
Copper	ND		9.01	"	"	"	"	"	
Lead	4.85		0.901	"	"	"	"	"	
Nickel	2.67		0.901	"	"	"	"	"	
Selenium	ND		0.234	"	"	"	"	"	
Silver	ND		0.0901	"	"	"	"	"	
Zinc	ND		33.3	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L740641	03/04/2024	03/26/2024	
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KP Kauffman Co. Inc.
 1700 Lincoln St #4550
 Denver CO 80203

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

SW-3

3/4/2024 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403063-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.134		0.101	mg/L	1	B4C1111	03/11/2024	03/12/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	34.4		25.0	mg/kg	1	B4C0634	03/06/2024	03/12/2024	
Residual Range Organics (C28-C40)	267		100	"	"	"	"	"	

Surrogate: o-Terphenyl	97.8 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4C0502	03/05/2024	03/06/2024	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.8 %		70-130			"	"	"	
Surrogate: Toluene-d8	96.7 %		70-130			"	"	"	

Origins Laboratory, Inc.



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

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

SW-3

3/4/2024 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403063-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	103 %	70-130				B4C05 02	03/05/2024	03/06/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	1.35	0.499	meq/L	10	[CALC]		03/11/2024	03/12/2024	
Magnesium	ND	0.823	"	"	"	"	"	"	
Sodium	ND	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4C0644		03/06/2024	03/12/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	"	U

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

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

SW-3

3/4/2024 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403063-03 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B4C0644	03/06/2024	03/12/2024	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.0 %		60-130			"	"	"	
Surrogate: Anthracene-d10	104 %		60-130			"	"	"	
Surrogate: Pyrene-d10	84.5 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	91.4 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.02			pH Units	1	B4C1114	03/11/2024	03/12/2024	
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SAR by 20B Saturated Paste

SAR	0.0517		0.0100	SAR	1	B4C1103	03/11/2024	03/12/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.209		0.00500	mmhos/cm	1	B4C1114	03/11/2024	03/12/2024	
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Table 915 metals by EPA 6020B

Arsenic	0.964		0.280	mg/kg	10	B4C0647	03/06/2024	03/21/2024	
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Origins Laboratory, Inc.



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

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

SW-3

3/4/2024 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403063-03 (Soil)

Table 915 metals by EPA 6020B

Barium	33.0		9.67	mg/kg	10	B4C0647	03/06/2024	03/21/2024	
Cadmium	0.101		0.0967	"	"	"	"	"	
Copper	ND		9.67	"	"	"	"	"	
Lead	5.71		0.967	"	"	"	"	"	
Nickel	3.03		0.967	"	"	"	"	"	
Selenium	ND		0.251	"	"	"	"	"	
Silver	ND		0.0967	"	"	"	"	"	
Zinc	ND		35.8	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L740641	03/04/2024	03/26/2024	
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Origins Laboratory, Inc.



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

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

SW-4

3/4/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403063-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.153		0.0989	mg/L	1	B4C1111	03/11/2024	03/12/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	58.3		25.0	mg/kg	1	B4C0634	03/06/2024	03/12/2024	
Residual Range Organics (C28-C40)	254		100	"	"	"	"	"	

Surrogate: o-Terphenyl	98.3 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4C0502	03/05/2024	03/06/2024	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.6 %		70-130			"	"	"	
Surrogate: Toluene-d8	96.8 %		70-130			"	"	"	

Origins Laboratory, Inc.



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

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

SW-4

3/4/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403063-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	102 %	70-130				B4C05 02	03/05/2024	03/06/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	2.17	0.499	meq/L	10	[CALC]		03/11/2024	03/12/2024	
Magnesium	ND	0.823	"	"	"	"	"	"	
Sodium	ND	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.004	0.002	mg/kg	1	B4C0644		03/06/2024	03/08/2024	
2-Methylnaphthalene	0.003	0.002	"	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	"	U

Origins Laboratory, Inc.



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

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

SW-4

3/4/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403063-04 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B4C0644	03/06/2024	03/08/2024	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	94.2 %		60-130			"	"	"	
Surrogate: Anthracene-d10	101 %		60-130			"	"	"	
Surrogate: Pyrene-d10	92.8 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.8 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.26			pH Units	1	B4C1115	03/11/2024	03/12/2024	
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SAR by 20B Saturated Paste

SAR	0.197		0.0100	SAR	1	B4C1104	03/11/2024	03/12/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.293		0.00500	mmhos/cm	1	B4C1115	03/11/2024	03/12/2024	
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Table 915 metals by EPA 6020B

Arsenic	0.917		0.247	mg/kg	10	B4C0647	03/06/2024	03/21/2024	
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Origins Laboratory, Inc.



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

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

SW-4

3/4/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403063-04 (Soil)

Table 915 metals by EPA 6020B

Barium	28.4		8.53	mg/kg	10	B4C0647	03/06/2024	03/21/2024	
Cadmium	ND		0.0853	"	"	"	"	"	
Copper	ND		8.53	"	"	"	"	"	
Lead	5.80		0.853	"	"	"	"	"	
Nickel	2.64		0.853	"	"	"	"	"	
Selenium	ND		0.222	"	"	"	"	"	
Silver	ND		0.0853	"	"	"	"	"	
Zinc	ND		31.6	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L740642	03/04/2024	03/26/2024	
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Origins Laboratory, Inc.



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

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

BH-1

3/4/2024 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403063-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.154		0.0990	mg/L	1	B4C1111	03/11/2024	03/12/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	39.4		25.0	mg/kg	1	B4C0634	03/06/2024	03/12/2024	
Residual Range Organics (C28-C40)	239		100	"	"	"	"	"	

Surrogate: o-Terphenyl	90.8 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4C0502	03/05/2024	03/06/2024	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.7 %		70-130			"	"	"	
Surrogate: Toluene-d8	97.0 %		70-130			"	"	"	

Origins Laboratory, Inc.



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

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

BH-1

3/4/2024 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403063-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene 101 % 70-130 B4C05 02 03/05/2024 03/06/2024

Metals by Saturated Paste by EPA 6010

Calcium	2.84	0.499	meq/L	10	[CALC]	03/11/2024	03/12/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	0.007	0.002	mg/kg	1	B4C0644	03/06/2024	03/08/2024	
2-Methylnaphthalene	0.008	0.002	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.080	"	4	"	"	03/12/2024	R-01, U
Benzo (b) fluoranthene	ND	0.080	"	"	"	"	"	R-01, U
Benzo (k) fluoranthene	ND	0.080	"	"	"	"	"	R-01, U
Chrysene	ND	0.020	"	1	"	"	03/08/2024	U
Dibenz (a,h) anthracene	ND	0.080	"	4	"	"	03/12/2024	R-01, U
Fluoranthene	ND	0.020	"	1	"	"	03/08/2024	U
Fluorene	ND	0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

BH-1

3/4/2024 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403063-05 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND		0.080	mg/kg	4	B4C0644	03/06/2024	03/12/2024	R-01, U
Naphthalene	ND		0.002	"	1	"	"	03/08/2024	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	95.9 %		60-130			"	"	"	
Surrogate: Anthracene-d10	104 %		60-130			"	"	"	
Surrogate: Pyrene-d10	81.1 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.0 %		60-130			"	"	03/12/2024	

pH in Soil by 9045D

pH	8.40			pH Units	1	B4C1115	03/11/2024	03/12/2024	
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SAR by 20B Saturated Paste

SAR	0.251		0.0100	SAR	1	B4C1104	03/11/2024	03/12/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.382		0.00500	mmhos/cm	1	B4C1115	03/11/2024	03/12/2024	
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Table 915 metals by EPA 6020B

Arsenic	0.865		0.265	mg/kg	10	B4C0647	03/06/2024	03/21/2024	
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Origins Laboratory, Inc.



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

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

BH-1

3/4/2024 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403063-05 (Soil)

Table 915 metals by EPA 6020B

Barium	31.9		9.13	mg/kg	10	B4C0647	03/06/2024	03/21/2024	
Cadmium	0.0968		0.0913	"	"	"	"	"	
Copper	ND		9.13	"	"	"	"	"	
Lead	5.24		0.913	"	"	"	"	"	
Nickel	2.82		0.913	"	"	"	"	"	
Selenium	ND		0.237	"	"	"	"	"	
Silver	ND		0.0913	"	"	"	"	"	
Zinc	ND		33.8	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L740642	03/04/2024	03/26/2024	
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Origins Laboratory, Inc.



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

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4C0502 - EPA 5030 (soil)

Blank (B4C0502-BLK1)

Prepared: 03/05/2024 Analyzed: 03/05/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	97.8		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	105		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	93.9		70-130			

Origins Laboratory, Inc.



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

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4C0502 - EPA 5030 (soil)

LCS (B4C0502-BS1)

Prepared: 03/05/2024 Analyzed: 03/05/2024

1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100		110	70-130			
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Benzene	0.103	0.00200	"	0.100		103	70-130			
Ethylbenzene	0.116	0.00200	"	0.100		116	70-130			
Naphthalene	0.114	0.00380	"	0.100		114	70-130			
Toluene	0.114	0.00200	"	0.100		114	70-130			
o-Xylene	0.116	0.00200	"	0.100		116	70-130			
m,p-Xylene	0.219	0.00400	"	0.200		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4C0502 - EPA 5030 (soil)

Matrix Spike (B4C0502-MS1)	Source: Y403047-01			Prepared: 03/05/2024 Analyzed: 03/05/2024						
1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100	ND	103	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Benzene	0.115	0.00200	"	0.100	ND	115	70-130			
Ethylbenzene	0.112	0.00200	"	0.100	ND	112	70-130			
Naphthalene	0.127	0.00380	"	0.100	ND	127	70-130			
Toluene	0.114	0.00200	"	0.100	ND	114	70-130			
o-Xylene	0.113	0.00200	"	0.100	ND	113	70-130			
m,p-Xylene	0.210	0.00400	"	0.200	ND	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory, Inc.



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

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4C0502 - EPA 5030 (soil)

Matrix Spike Dup (B4C0502-MSD1)	Source: Y403047-01			Prepared: 03/05/2024 Analyzed: 03/05/2024						
1,2,4-Trimethylbenzene	0.114	0.00200	mg/kg	0.100	ND	114	70-130	10.4	20	
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100	ND	112	70-130	9.90	20	
Benzene	0.129	0.00200	"	0.100	ND	129	70-130	11.7	20	
Ethylbenzene	0.122	0.00200	"	0.100	ND	122	70-130	8.40	20	
Naphthalene	0.155	0.00380	"	0.100	ND	155	70-130	19.4	20	QM-07
Toluene	0.127	0.00200	"	0.100	ND	127	70-130	10.3	20	
o-Xylene	0.123	0.00200	"	0.100	ND	123	70-130	9.12	20	
m,p-Xylene	0.230	0.00400	"	0.200	ND	115	70-130	9.00	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

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 B4C0634 - EPA 3550B										
Blank (B4C0634-BLK1)										
					Prepared: 03/06/2024 Analyzed: 03/10/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		95.6	50-150			

Origins Laboratory, Inc.



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

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

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 B4C0634 - EPA 3550B

LCS (B4C0634-BS1)

Prepared: 03/06/2024 Analyzed: 03/10/2024

Diesel (C10-C28)	1050	50.0	mg/kg	1000		105	70-130			
Residual Range Organics (C28-C40)	1120	200	"	1000		112	70-130			
Surrogate: o-Terphenyl	54		"	49.8		108	50-150			

Origins Laboratory, Inc.



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

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

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 B4C0634 - EPA 3550B

Matrix Spike (B4C0634-MS1)	Source: Y403060-01			Prepared: 03/06/2024 Analyzed: 03/10/2024						
Diesel (C10-C28)	1120	50.0	mg/kg	1000	ND	112	70-130			
Residual Range Organics (C28-C40)	1280	200	"	1000	75.2	120	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

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

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

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 B4C0634 - EPA 3550B										
Matrix Spike Dup (B4C0634-MSD1)		Source: Y403060-01			Prepared: 03/06/2024 Analyzed: 03/10/2024					
Diesel (C10-C28)	882	50.0	mg/kg	1000	ND	88.2	70-130	23.9	35	
Residual Range Organics (C28-C40)	1060	200	"	1000	75.2	98.1	70-130	18.9	35	
Surrogate: o-Terphenyl	52		"	49.8		105	50-150			

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 1700 Lincoln St #4550
 Denver CO 80203

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

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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Metals by EPA 6000/7000 Series Methods - 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 B4C0647 - EPA 3050B

Blank (B4C0647-BLK1)

Prepared: 03/06/2024 Analyzed: 03/21/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

LCS (B4C0647-BS1)

Prepared: 03/06/2024 Analyzed: 03/21/2024

Arsenic	5.15	0.290	mg/kg	5.00		103	80-120			
Barium	486	10.0	"	500		97.2	80-120			
Cadmium	5.22	0.100	"	5.00		104	80-120			
Copper	52.6	10.0	"	50.0		105	80-120			
Lead	4.95	1.00	"	5.00		99.1	80-120			
Nickel	5.16	1.00	"	5.00		103	80-120			
Selenium	29.3	0.260	"	27.5		106	80-120			
Silver	5.03	0.100	"	5.00		101	80-120			
Zinc	56.9	37.0	"	50.0		114	80-120			

Matrix Spike (B4C0647-MS1)

Source: Y403063-01

Prepared: 03/06/2024 Analyzed: 03/21/2024

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 1700 Lincoln St #4550
 Denver CO 80203

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

Metals by EPA 6000/7000 Series Methods - 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 B4C0647 - EPA 3050B

Matrix Spike (B4C0647-MS1)		Source: Y403063-01			Prepared: 03/06/2024 Analyzed: 03/21/2024					
Arsenic	5.50	0.261	mg/kg	4.50	0.783	105	75-125			
Barium	506	8.99	"	450	25.6	107	75-125			
Cadmium	4.83	0.0899	"	4.50	0.0695	106	75-125			
Copper	50.6	8.99	"	45.0	3.30	105	75-125			
Lead	11.3	0.899	"	4.50	5.24	135	75-125			QM-07
Nickel	7.52	0.899	"	4.50	2.77	106	75-125			
Selenium	24.9	0.234	"	24.7	0.126	100	75-125			
Silver	4.76	0.0899	"	4.50	0.0103	106	75-125			
Zinc	94.9	33.3	"	45.0	15.3	177	75-125			QM-07

Matrix Spike Dup (B4C0647-MSD1)		Source: Y403063-01			Prepared: 03/06/2024 Analyzed: 03/21/2024						QM-02
Arsenic	5.66	0.265	mg/kg	4.57	0.783	107	75-125	2.81	20		
Barium	526	9.15	"	457	25.6	109	75-125	3.96	20		
Cadmium	5.09	0.0915	"	4.57	0.0695	110	75-125	5.22	20		
Copper	51.9	9.15	"	45.7	3.30	106	75-125	2.52	20		
Lead	11.1	0.915	"	4.57	5.24	127	75-125	1.99	20	QM-07	
Nickel	7.99	0.915	"	4.57	2.77	114	75-125	6.15	20		
Selenium	28.9	0.238	"	25.2	0.126	114	75-125	14.7	20		
Silver	4.63	0.0915	"	4.57	0.0103	101	75-125	2.83	20		
Zinc	70.0	33.8	"	45.7	15.3	119	75-125	30.3	20		

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

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4C0644 - EPA 3580

Blank (B4C0644-BLK1)

Prepared: 03/06/2024 Analyzed: 03/08/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		99.9	60-130			
Surrogate: Anthracene-d10	190		"	200		94.5	60-130			
Surrogate: Pyrene-d10	200		"	200		98.9	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

LCS (B4C0644-BS1)

Prepared: 03/06/2024 Analyzed: 03/08/2024

1-Methylnaphthalene	0.168	0.002	mg/kg	0.200		83.9	70-130			
2-Methylnaphthalene	0.166	0.002	"	0.200		83.1	70-130			
Acenaphthene	0.166	0.020	"	0.200		83.0	70-130			
Anthracene	0.155	0.020	"	0.200		77.4	70-130			

Origins Laboratory, Inc.



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

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4C0644 - EPA 3580

LCS (B4C0644-BS1)

Prepared: 03/06/2024 Analyzed: 03/08/2024

Benzo (a) anthracene	0.179	0.005	mg/kg	0.200		89.3	70-130			
Benzo (a) pyrene	0.179	0.020	"	0.200		89.6	70-130			
Benzo (b) fluoranthene	0.169	0.020	"	0.200		84.5	70-130			
Benzo (g,h,i) perylene	0.169	0.020	"	0.200		84.4	70-130			
Benzo (k) fluoranthene	0.181	0.020	"	0.200		90.3	70-130			
Chrysene	0.170	0.020	"	0.200		85.1	70-130			
Dibenz (a,h) anthracene	0.167	0.020	"	0.200		83.6	70-130			
Fluoranthene	0.156	0.020	"	0.200		77.9	70-130			
Fluorene	0.169	0.020	"	0.200		84.3	70-130			
Indeno (1,2,3-cd) pyrene	0.170	0.020	"	0.200		84.9	70-130			
Naphthalene	0.172	0.002	"	0.200		86.2	70-130			
Phenanthrene	0.152	0.020	"	0.200		76.2	70-130			
Pyrene	0.163	0.020	"	0.200		81.5	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.9	60-130			
Surrogate: Anthracene-d10	190		"	200		94.4	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

Matrix Spike (B4C0644-MS1)

Source: Y403063-01

Prepared: 03/06/2024 Analyzed: 03/08/2024

1-Methylnaphthalene	0.175	0.002	mg/kg	0.200	0.003	86.1	70-130			
2-Methylnaphthalene	0.174	0.002	"	0.200	0.002	85.6	70-130			
Acenaphthene	0.177	0.020	"	0.200	0.0007	88.0	70-130			
Anthracene	0.168	0.020	"	0.200	0.0009	83.5	70-130			
Benzo (a) anthracene	0.188	0.005	"	0.200	0.0009	93.3	70-130			
Benzo (a) pyrene	0.186	0.020	"	0.200	ND	92.9	70-130			
Benzo (b) fluoranthene	0.177	0.020	"	0.200	ND	88.4	70-130			
Benzo (g,h,i) perylene	0.214	0.020	"	0.200	0.022	96.0	70-130			

Origins Laboratory, Inc.



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

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4C0644 - EPA 3580

Matrix Spike (B4C0644-MS1)		Source: Y403063-01			Prepared: 03/06/2024 Analyzed: 03/08/2024					
Benzo (k) fluoranthene	0.165	0.020	mg/kg	0.200	ND	82.5	70-130			
Chrysene	0.180	0.020	"	0.200	0.004	88.1	70-130			
Dibenz (a,h) anthracene	0.185	0.020	"	0.200	0.001	91.9	70-130			
Fluoranthene	0.147	0.020	"	0.200	0.001	72.9	70-130			
Fluorene	0.168	0.020	"	0.200	ND	83.8	70-130			
Indeno (1,2,3-cd) pyrene	0.191	0.020	"	0.200	ND	95.6	70-130			
Naphthalene	0.183	0.002	"	0.200	ND	91.4	70-130			
Phenanthrene	0.164	0.020	"	0.200	0.002	81.0	70-130			
Pyrene	0.160	0.020	"	0.200	0.001	79.2	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		94.3	60-130			
Surrogate: Anthracene-d10	190		"	200		94.8	60-130			
Surrogate: Pyrene-d10	190		"	200		93.5	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

Matrix Spike Dup (B4C0644-MSD1)		Source: Y403063-01			Prepared: 03/06/2024 Analyzed: 03/08/2024					
1-Methylnaphthalene	0.174	0.002	mg/kg	0.200	0.003	85.8	70-130	0.348	20	
2-Methylnaphthalene	0.173	0.002	"	0.200	0.002	85.5	70-130	0.0655	20	
Acenaphthene	0.177	0.020	"	0.200	0.0007	88.1	70-130	0.139	20	
Anthracene	0.175	0.020	"	0.200	0.0009	87.1	70-130	4.24	20	
Benzo (a) anthracene	0.187	0.005	"	0.200	0.0009	93.1	70-130	0.260	20	
Benzo (a) pyrene	0.182	0.020	"	0.200	ND	90.8	70-130	2.26	20	
Benzo (b) fluoranthene	0.177	0.020	"	0.200	ND	88.6	70-130	0.251	20	
Benzo (g,h,i) perylene	0.216	0.020	"	0.200	0.022	97.0	70-130	0.932	20	
Benzo (k) fluoranthene	0.160	0.020	"	0.200	ND	79.8	70-130	3.30	20	
Chrysene	0.184	0.020	"	0.200	0.004	89.8	70-130	1.85	20	
Dibenz (a,h) anthracene	0.192	0.020	"	0.200	0.001	95.5	70-130	3.80	20	
Fluoranthene	0.150	0.020	"	0.200	0.001	74.3	70-130	1.89	20	

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

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4C0644 - EPA 3580

Matrix Spike Dup (B4C0644-MSD1)	Source: Y403063-01			Prepared: 03/06/2024 Analyzed: 03/08/2024						
Fluorene	0.164	0.020	mg/kg	0.200	ND	82.2	70-130	1.91	20	
Indeno (1,2,3-cd) pyrene	0.192	0.020	"	0.200	ND	96.1	70-130	0.602	20	
Naphthalene	0.181	0.002	"	0.200	ND	90.4	70-130	1.12	20	
Phenanthrene	0.170	0.020	"	0.200	0.002	84.1	70-130	3.67	20	
Pyrene	0.161	0.020	"	0.200	0.001	80.1	70-130	1.02	20	
Surrogate: Fluorene-d10	180		ug/kg	200		92.4	60-130			
Surrogate: Anthracene-d10	200		"	200		98.5	60-130			
Surrogate: Pyrene-d10	190		"	200		93.8	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.6	60-130			

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

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

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 B4C1103 - Saturated Paste Metals

Blank (B4C1103-BLK1)

Prepared: 03/11/2024 Analyzed: 03/12/2024

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 (B4C1103-DUP1)

Source: Y403061-01

Prepared: 03/11/2024 Analyzed: 03/12/2024

SAR	ND	0.0100	SAR		0.417				200	
Calcium PPM	43.9	10.0	mg/L		46.4			5.67	50	
Magnesium PPM	21.5	10.0	"		22.8			6.13	50	
Sodium PPM	13.4	10.0	"		13.9			3.44	50	

Batch B4C1104 - Saturated Paste Metals

Blank (B4C1104-BLK1)

Prepared: 03/11/2024 Analyzed: 03/12/2024

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

Duplicate (B4C1104-DUP1)

Source: Y403063-04

Prepared: 03/11/2024 Analyzed: 03/12/2024

Calcium PPM	51.5	10.0	mg/L		43.5			16.8	50	
SAR	ND	0.0100	SAR		0.197				200	
Magnesium PPM	6.34	10.0	mg/L		5.19			19.9	50	
Sodium PPM	6.04	10.0	"		5.17			15.5	50	

Batch B4C1111 - DTPA Sorbitol Preparation

Blank (B4C1111-BLK1)

Prepared: 03/11/2024 Analyzed: 03/12/2024

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

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4C1111 - DTPA Sorbitol Preparation										
Blank (B4C1111-BLK1)					Prepared: 03/11/2024 Analyzed: 03/12/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4C1111-DUP1)					Source: Y403063-01 Prepared: 03/11/2024 Analyzed: 03/12/2024					
Boron	0.169	0.0988	mg/L		0.162			3.90	50	

Origins Laboratory, Inc.



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

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4C1114 - Saturated Paste pH/EC

Blank (B4C1114-BLK1)

Prepared: 03/11/2024 Analyzed: 03/12/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4C1114-DUP1)

Source: Y403061-01

Prepared: 03/11/2024 Analyzed: 03/12/2024

pH 8.02 pH Units 8.20 2.22 25

Specific Conductance (EC) 0.484 0.00500 mmhos/cm 0.510 5.21 25

Batch B4C1115 - Saturated Paste pH/EC

Blank (B4C1115-BLK1)

Prepared: 03/11/2024 Analyzed: 03/12/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4C1115-DUP1)

Source: Y403063-04

Prepared: 03/11/2024 Analyzed: 03/12/2024

Specific Conductance (EC) 0.333 0.00500 mmhos/cm 0.293 12.6 25

pH 8.43 pH Units 8.26 2.04 25

Origins Laboratory, Inc.



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

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

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 L740642 -										
DUP (L 87013-DUP)		Source: Y403063-04			Prepared: Analyzed: 03/26/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 87013-MS)		Source: Y403063-04			Prepared: Analyzed: 03/26/2024					
Chromium, Hexavalent	28	2.5	mg/Kg	39.7	< 0.244	71	75-125			*
LCS (LCS)		Prepared: Analyzed: 03/26/2024								
Chromium, Hexavalent	6.64	0.5	mg/Kg	8		83	75-125			
LRB (LRB)		Prepared: Analyzed: 03/26/2024								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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

John Peterson
 Project Number: [none]
 Project: Klein 24-8 Flowline

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 L740641 -										
DUP (L 87010-DUP)		Source: Y403063-01			Prepared: Analyzed: 03/26/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 87010-MS)		Source: Y403063-01			Prepared: Analyzed: 03/26/2024					
Chromium, Hexavalent	30.1	2.5	mg/Kg	39.4	< 0.244	76	75-125			
LCS (LCS)		Prepared: Analyzed: 03/26/2024								
Chromium, Hexavalent	6.87	0.5	mg/Kg	8		86	75-125			
LRB (LRB)		Prepared: Analyzed: 03/26/2024								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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1700 Lincoln St #4550
Denver CO 80203

John Peterson
Project Number: [none]
Project: Klein 24-8 Flowline

Notes and Definitions

U Sample is Non-Detect.

R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.

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

QM-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

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