



May 30, 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. May 06, 2024. This project is associated with Origins project number Y405175-01.

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

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

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

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

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

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



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

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-1R	Y405175-01	Soil	May 6, 2024 8:10	05/06/2024 15:21
SS-2R	Y405175-02	Soil	May 6, 2024 8:15	05/06/2024 15:21

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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: 1405175 Client: KPK
 Client Project ID: Klein 24-8
 Checklist Completed by: EHD Shipped Via: HD
 Date/time completed: 5/6/12 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): 0 Soil/Solid Water Other:
 Cooler Number/Temperature: 1/5.5 °C / °C / °C (Describe)
 Thermometer ID: 1005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager)

5/8/12
 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-1R

5/6/2024 8:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405175-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.123	0.0984	mg/L	1	B4E0713	ACC	05/07/2024	05/10/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	70.5	25.0	mg/kg	1	B4E0704	ZZZ	05/07/2024	05/10/2024	
Residual Range Organics (C28-C40)	347	100	"	"	"	ZZZ	"	"	

Surrogate: o-Terphenyl	118 %	50-150			"	"			
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4E0937	JSM	05/09/2024	05/10/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	Ua
Benzene	ND	0.00200	"	"	"	JSM	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	Ua
Toluene	ND	0.00200	"	"	"	JSM	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"			
Surrogate: Toluene-d8	100 %	70-130			"	"			
Surrogate: 4-Bromofluorobenzene	99.0 %	70-130			"	"			

Metals by Saturated Paste by EPA 6010

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-1R

5/6/2024 8:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405175-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	3.13	0.499	meq/L	10	[CALC]	ACC	05/07/2024	05/08/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	ND	0.435	"	"	"	ACC	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4E0739	Windo	05/07/2024	05/10/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	Ua
Anthracene	ND	0.020	"	"	"	Windo	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	Ua
Chrysene	ND	0.020	"	"	"	Windo	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	Ua
Fluorene	ND	0.020	"	"	"	Windo	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	Ua
Naphthalene	ND	0.002	"	"	"	Windo	"	"	Ua

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

SW-1R

5/6/2024 8:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405175-01 (Soil)

PAH by EPA 8270E

Pyrene	ND	0.020	mg/kg	1	B4E0739	Windo	05/07/2024	05/10/2024	Ua
Surrogate: Fluorene-d10	102 %	60-130			"	"		"	
Surrogate: Anthracene-d10	97.2 %	60-130			"	"		"	
Surrogate: Pyrene-d10	77.2 %	60-130			"	"		"	
Surrogate: Benzo (a) pyrene-d12	99.0 %	60-130			"	"		"	

pH in Soil by 9045D

pH	8.36		pH Units	1	B4E0723	EAL	05/07/2024	05/08/2024	
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SAR by 20B Saturated Paste

SAR	0.192	0.0100	SAR	1	B4E0718	ACC	05/07/2024	05/08/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.385	0.00500	mmhos/cm	1	B4E0723	EAL	05/07/2024	05/08/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.39	0.262	mg/kg	10	B4E0649	HJD	05/06/2024	05/09/2024	
Barium	31.2	9.04	"	"	"	HJD	"	"	
Cadmium	ND	0.0904	"	"	"	HJD	"	"	Ua
Copper	ND	9.04	"	"	"	HJD	"	"	Ua
Lead	4.84	0.904	"	"	"	HJD	"	"	

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

SW-1R

5/6/2024 8:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405175-01 (Soil)

Table 915 metals by EPA 6020B

Nickel	2.62	0.904	mg/kg	10	B4E0649	HJD	05/06/2024	05/09/2024	
Selenium	ND	0.235	"	"	"	HJD	"	"	Ua
Silver	ND	0.0904	"	"	"	HJD	"	"	Ua
Zinc	ND	33.4	"	"	"	HJD	"	"	Ua

Total Metals by 7196A

Hexavalent Chromium	ND	0.344	mg/kg dry	1	2616220	HH2	05/23/2024	05/24/2024	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

SS-2R

5/6/2024 8:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405175-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.218	0.0996	mg/L	1	B4E0713	ACC	05/07/2024	05/10/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4E0704	ZZZ	05/07/2024	05/10/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	Ua

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4E0937	JSM	05/09/2024	05/10/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	Ua
Benzene	ND	0.00200	"	"	"	JSM	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	Ua
Toluene	ND	0.00200	"	"	"	JSM	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"	"	

Metals by Saturated Paste by EPA 6010

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

SS-2R

5/6/2024 8:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405175-02 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.48	0.499	meq/L	10	[CALC]	ACC	05/07/2024	05/08/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	ND	0.435	"	"	"	ACC	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.002	0.002	mg/kg	1	B4E0739	Windo	05/07/2024	05/10/2024	
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	Ua
Anthracene	ND	0.020	"	"	"	Windo	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	Ua
Chrysene	ND	0.020	"	"	"	Windo	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	Ua
Fluorene	ND	0.020	"	"	"	Windo	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	Ua
Naphthalene	ND	0.002	"	"	"	Windo	"	"	Ua
Pyrene	ND	0.020	"	"	"	Windo	"	"	Ua

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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

SS-2R

5/6/2024 8:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405175-02 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	101 %	60-130			B4E07 39		05/07/2024	05/10/2024	
Surrogate: Anthracene-d10	98.9 %	60-130			"		"	"	
Surrogate: Pyrene-d10	76.6 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	100 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.43		pH Units	1	B4E0723	EAL	05/07/2024	05/08/2024	
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SAR by 20B Saturated Paste

SAR	0.245	0.0100	SAR	1	B4E0718	ACC	05/07/2024	05/08/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.228	0.00500	mmhos/cm	1	B4E0723	EAL	05/07/2024	05/08/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.61	0.283	mg/kg	10	B4E0649	HJD	05/06/2024	05/09/2024	
Barium	37.9	9.76	"	"	"	HJD	"	"	
Cadmium	0.111	0.0976	"	"	"	HJD	"	"	
Copper	ND	9.76	"	"	"	HJD	"	"	Ua
Lead	6.77	0.976	"	"	"	HJD	"	"	
Nickel	2.99	0.976	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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 1700 Lincoln St #4550
 Denver CO 80203

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

SS-2R

5/6/2024 8:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405175-02 (Soil)

Table 915 metals by EPA 6020B

Selenium	ND	0.254	mg/kg	10	B4E0649	HJD	05/06/2024	05/09/2024	Ua
Silver	ND	0.0976	"	"	"	HJD	"	"	Ua
Zinc	ND	36.1	"	"	"	HJD	"	"	Ua

Total Metals by 7196A

Hexavalent Chromium	ND	0.249	mg/kg dry	1	2616220	HH2	05/23/2024	05/24/2024	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

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 B4E0704 - EPA 3550B										
Blank (B4E0704-BLK1)										
					Prepared: 05/07/2024 Analyzed: 05/10/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	25		"	24.9		98.7	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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 B4E0704 - EPA 3550B

LCS (B4E0704-BS1)

Prepared: 05/07/2024 Analyzed: 05/10/2024

Diesel (C10-C28)	916	50.0	mg/kg	1000		91.6	70-130			
Residual Range Organics (C28-C40)	1020	200	"	1000		102	70-130			
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			

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Jen Pellegrini, Project Manager

KP Kauffman Co. Inc.
 1700 Lincoln St #4550
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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 B4E0704 - EPA 3550B

Matrix Spike (B4E0704-MS1)	Source: Y405170-09			Prepared: 05/07/2024 Analyzed: 05/10/2024						
Diesel (C10-C28)	970	50.0	mg/kg	1000	ND	97.0	70-130			
Residual Range Organics (C28-C40)	1070	200	"	1000	ND	107	70-130			
Surrogate: o-Terphenyl	52		"	49.8		105	50-150			

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Jen Pellegrini, Project Manager

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 B4E0704 - EPA 3550B

Matrix Spike Dup (B4E0704-MSD1)	Source: Y405170-09			Prepared: 05/07/2024 Analyzed: 05/10/2024						
Diesel (C10-C28)	929	50.0	mg/kg	1000	ND	92.9	70-130	4.34	35	
Residual Range Organics (C28-C40)	1070	200	"	1000	ND	107	70-130	0.742	35	
Surrogate: o-Terphenyl	67		"	49.8		134	50-150			

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 1700 Lincoln St #4550
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John Peterson
 Project Number: [none]
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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 B4E0937 - EPA 5030 (soil)

Blank (B4E0937-BLK1)

Prepared: 05/09/2024 Analyzed: 05/10/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	102		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	107		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	91.9		70-130			

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Jen Pellegrini, Project Manager

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 B4E0937 - EPA 5030 (soil)

LCS (B4E0937-BS1)

Prepared: 05/09/2024 Analyzed: 05/10/2024

1,2,4-Trimethylbenzene	0.0839	0.00200	mg/kg	0.100		83.9	70-130			
1,3,5-Trimethylbenzene	0.0852	0.00200	"	0.100		85.2	70-130			
Benzene	0.0821	0.00200	"	0.100		82.1	70-130			
Ethylbenzene	0.0857	0.00200	"	0.100		85.7	70-130			
Naphthalene	0.0888	0.00380	"	0.100		88.8	70-130			
Toluene	0.0812	0.00200	"	0.100		81.2	70-130			
o-Xylene	0.0901	0.00200	"	0.100		90.1	70-130			
m,p-Xylene	0.171	0.00400	"	0.200		85.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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 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 B4E0937 - EPA 5030 (soil)

Matrix Spike (B4E0937-MS1)	Source: Y405170-01			Prepared: 05/09/2024 Analyzed: 05/10/2024						
1,2,4-Trimethylbenzene	0.0525	0.00200	mg/kg	0.100	ND	52.5	70-130			QM-07
1,3,5-Trimethylbenzene	0.0509	0.00200	"	0.100	ND	50.9	70-130			QM-07
Benzene	0.0615	0.00200	"	0.100	ND	61.5	70-130			QM-07
Ethylbenzene	0.0537	0.00200	"	0.100	ND	53.7	70-130			QM-07
Naphthalene	0.0732	0.00380	"	0.100	ND	73.2	70-130			
Toluene	0.0567	0.00200	"	0.100	ND	56.7	70-130			QM-07
o-Xylene	0.0581	0.00200	"	0.100	ND	58.1	70-130			QM-07
m,p-Xylene	0.107	0.00400	"	0.200	ND	53.6	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		114	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.9	70-130			

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 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 B4E0937 - EPA 5030 (soil)

Matrix Spike Dup (B4E0937-MSD1)	Source: Y405170-01	Prepared: 05/09/2024 Analyzed: 05/10/2024								
1,2,4-Trimethylbenzene	0.0623	0.00200	mg/kg	0.100	ND	62.3	70-130	17.1	20	QM-07
1,3,5-Trimethylbenzene	0.0631	0.00200	"	0.100	ND	63.1	70-130	21.4	20	QM-07
Benzene	0.0662	0.00200	"	0.100	ND	66.2	70-130	7.36	20	QM-07
Ethylbenzene	0.0655	0.00200	"	0.100	ND	65.5	70-130	19.7	20	QM-07
Naphthalene	0.0815	0.00380	"	0.100	ND	81.5	70-130	10.6	20	
Toluene	0.0632	0.00200	"	0.100	ND	63.2	70-130	10.9	20	QM-07
o-Xylene	0.0702	0.00200	"	0.100	ND	70.2	70-130	18.8	20	
m,p-Xylene	0.130	0.00400	"	0.200	ND	65.2	70-130	19.4	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		112	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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 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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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 B4E0649 - EPA 3050B

Blank (B4E0649-BLK1)

Prepared: 05/06/2024 Analyzed: 05/10/2024

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

LCS (B4E0649-BS1)

Prepared: 05/06/2024 Analyzed: 05/10/2024

Arsenic	5.09	0.290	mg/kg	5.00		102	80-120
Barium	510	10.0	"	500		102	80-120
Cadmium	5.36	0.100	"	5.00		107	80-120
Copper	52.5	10.0	"	50.0		105	80-120
Lead	5.11	1.00	"	5.00		102	80-120
Nickel	5.34	1.00	"	5.00		107	80-120
Selenium	10.1	0.260	"	9.50		106	80-120
Silver	5.28	0.100	"	5.00		106	80-120
Zinc	51.6	37.0	"	50.0		103	80-120

Matrix Spike (B4E0649-MS1)

Source: Y405170-05

Prepared: 05/06/2024 Analyzed: 05/10/2024

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 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 B4E0649 - EPA 3050B

Matrix Spike (B4E0649-MS1)		Source: Y405170-05			Prepared: 05/06/2024 Analyzed: 05/10/2024					
Arsenic	8.96	0.257	mg/kg	4.43	3.68	119	75-125			
Barium	606	8.86	"	443	114	111	75-125			
Cadmium	4.90	0.0886	"	4.43	0.110	108	75-125			
Copper	61.2	8.86	"	44.3	7.97	120	75-125			
Lead	14.2	0.886	"	4.43	8.68	125	75-125			
Nickel	15.5	0.886	"	4.43	9.85	127	75-125			QM-07
Selenium	8.67	0.230	"	8.41	0.138	101	75-125			
Silver	4.70	0.0886	"	4.43	0.0186	106	75-125			
Zinc	86.8	32.8	"	44.3	33.5	120	75-125			

Matrix Spike Dup (B4E0649-MSD1)		Source: Y405170-05			Prepared: 05/06/2024 Analyzed: 05/10/2024					
Arsenic	8.40	0.251	mg/kg	4.32	3.68	109	75-125	6.46	20	
Barium	591	8.64	"	432	114	110	75-125	2.59	20	
Cadmium	4.77	0.0864	"	4.32	0.110	108	75-125	2.67	20	
Copper	57.4	8.64	"	43.2	7.97	114	75-125	6.42	20	
Lead	13.5	0.864	"	4.32	8.68	111	75-125	5.25	20	
Nickel	15.3	0.864	"	4.32	9.85	125	75-125	1.52	20	
Selenium	9.02	0.225	"	8.21	0.138	108	75-125	3.96	20	
Silver	4.63	0.0864	"	4.32	0.0186	107	75-125	1.38	20	
Zinc	82.6	32.0	"	43.2	33.5	113	75-125	5.02	20	

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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 B4E0739 - EPA 3580

Blank (B4E0739-BLK1)

Prepared: 05/07/2024 Analyzed: 05/10/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		95.5	60-130			
Surrogate: Pyrene-d10	170		"	200		83.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.4	60-130			

LCS (B4E0739-BS1)

Prepared: 05/07/2024 Analyzed: 05/10/2024

1-Methylnaphthalene	0.187	0.002	mg/kg	0.200		93.6	70-130			
2-Methylnaphthalene	0.187	0.002	"	0.200		93.3	70-130			
Acenaphthene	0.195	0.020	"	0.200		97.6	70-130			
Anthracene	0.192	0.020	"	0.200		96.0	70-130			

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 1700 Lincoln St #4550
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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 B4E0739 - EPA 3580

LCS (B4E0739-BS1) Prepared: 05/07/2024 Analyzed: 05/10/2024

Benzo (a) anthracene	0.190	0.005	mg/kg	0.200		95.2	70-130			
Benzo (a) pyrene	0.194	0.020	"	0.200		96.8	70-130			
Benzo (b) fluoranthene	0.179	0.020	"	0.200		89.6	70-130			
Benzo (g,h,i) perylene	0.198	0.020	"	0.200		98.9	70-130			
Benzo (k) fluoranthene	0.171	0.020	"	0.200		85.6	70-130			
Chrysene	0.182	0.020	"	0.200		90.9	70-130			
Dibenz (a,h) anthracene	0.218	0.020	"	0.200		109	70-130			
Fluoranthene	0.197	0.020	"	0.200		98.7	70-130			
Fluorene	0.199	0.020	"	0.200		99.4	70-130			
Indeno (1,2,3-cd) pyrene	0.191	0.020	"	0.200		95.3	70-130			
Naphthalene	0.197	0.002	"	0.200		98.3	70-130			
Phenanthrene	0.188	0.020	"	0.200		94.1	70-130			
Pyrene	0.167	0.020	"	0.200		83.4	70-130			

Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	190		"	200		96.2	60-130			
Surrogate: Pyrene-d10	170		"	200		84.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.8	60-130			

Matrix Spike (B4E0739-MS1) Prepared: 05/07/2024 Analyzed: 05/10/2024
Source: Y405143-01

1-Methylnaphthalene	0.191	0.002	mg/kg	0.200	0.001	94.9	70-130			
2-Methylnaphthalene	0.190	0.002	"	0.200	0.001	94.4	70-130			
Acenaphthene	0.197	0.020	"	0.200	ND	98.7	70-130			
Anthracene	0.195	0.020	"	0.200	0.002	96.8	70-130			
Benzo (a) anthracene	0.196	0.005	"	0.200	0.0005	97.8	70-130			
Benzo (a) pyrene	0.195	0.020	"	0.200	0.001	97.0	70-130			
Benzo (b) fluoranthene	0.189	0.020	"	0.200	0.0004	94.1	70-130			
Benzo (g,h,i) perylene	0.200	0.020	"	0.200	0.0009	99.6	70-130			

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 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 B4E0739 - EPA 3580

Matrix Spike (B4E0739-MS1)		Source: Y405143-01			Prepared: 05/07/2024 Analyzed: 05/10/2024					
Benzo (k) fluoranthene	0.181	0.020	mg/kg	0.200	ND	90.4	70-130			
Chrysene	0.195	0.020	"	0.200	ND	97.3	70-130			
Dibenz (a,h) anthracene	0.225	0.020	"	0.200	ND	112	70-130			
Fluoranthene	0.201	0.020	"	0.200	ND	100	70-130			
Fluorene	0.200	0.020	"	0.200	ND	100	70-130			
Indeno (1,2,3-cd) pyrene	0.197	0.020	"	0.200	ND	98.5	70-130			
Naphthalene	0.199	0.002	"	0.200	ND	99.4	70-130			
Phenanthrene	0.190	0.020	"	0.200	ND	94.9	70-130			
Pyrene	0.165	0.020	"	0.200	ND	82.3	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		96.7	60-130			
Surrogate: Pyrene-d10	170		"	200		83.0	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.3	60-130			

Matrix Spike Dup (B4E0739-MSD1)		Source: Y405143-01			Prepared: 05/07/2024 Analyzed: 05/10/2024					
1-Methylnaphthalene	0.193	0.002	mg/kg	0.200	0.001	95.8	70-130	0.968	20	
2-Methylnaphthalene	0.193	0.002	"	0.200	0.001	96.2	70-130	1.81	20	
Acenaphthene	0.199	0.020	"	0.200	ND	99.7	70-130	1.02	20	
Anthracene	0.197	0.020	"	0.200	0.002	97.9	70-130	1.04	20	
Benzo (a) anthracene	0.188	0.005	"	0.200	0.0005	93.7	70-130	4.27	20	
Benzo (a) pyrene	0.191	0.020	"	0.200	0.001	95.0	70-130	2.03	20	
Benzo (b) fluoranthene	0.188	0.020	"	0.200	0.0004	94.0	70-130	0.162	20	
Benzo (g,h,i) perylene	0.207	0.020	"	0.200	0.0009	103	70-130	3.53	20	
Benzo (k) fluoranthene	0.175	0.020	"	0.200	ND	87.7	70-130	3.02	20	
Chrysene	0.190	0.020	"	0.200	ND	95.0	70-130	2.37	20	
Dibenz (a,h) anthracene	0.241	0.020	"	0.200	ND	121	70-130	7.04	20	
Fluoranthene	0.202	0.020	"	0.200	ND	101	70-130	0.757	20	

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 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 B4E0739 - EPA 3580

Matrix Spike Dup (B4E0739-MSD1)	Source: Y405143-01			Prepared: 05/07/2024 Analyzed: 05/10/2024						
Fluorene	0.203	0.020	mg/kg	0.200	ND	102	70-130	1.62	20	
Indeno (1,2,3-cd) pyrene	0.214	0.020	"	0.200	ND	107	70-130	8.14	20	
Naphthalene	0.202	0.002	"	0.200	ND	101	70-130	1.54	20	
Phenanthrene	0.192	0.020	"	0.200	ND	96.2	70-130	1.40	20	
Pyrene	0.167	0.020	"	0.200	ND	83.5	70-130	1.49	20	
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		96.0	60-130			
Surrogate: Pyrene-d10	170		"	200		82.8	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.1	60-130			

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Jen Pellegrini, Project Manager

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 B4E0713 - DTPA Sorbitol Preparation

Blank (B4E0713-BLK1)

Prepared: 05/07/2024 Analyzed: 05/10/2024

Boron	ND	0.100	mg/L							Ua
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Duplicate (B4E0713-DUP1)

Source: Y405162-01

Prepared: 05/07/2024 Analyzed: 05/10/2024

Boron	0.0742	0.100	mg/L		0.0681			8.68	50	Ua
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Batch B4E0718 - Saturated Paste Metals

Blank (B4E0718-BLK1)

Prepared: 05/07/2024 Analyzed: 05/08/2024

Calcium PPM	ND	10.0	mg/L							Ua
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SAR	ND	0.0100	SAR							Ua
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Magnesium PPM	ND	10.0	mg/L							Ua
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Sodium PPM	ND	10.0	"							Ua
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Duplicate (B4E0718-DUP1)

Source: Y405170-13

Prepared: 05/07/2024 Analyzed: 05/08/2024

SAR	ND	0.0100	SAR		18.5				200	Ua
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Calcium PPM	118	10.0	mg/L		162			31.4	50	
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Magnesium PPM	48.0	10.0	"		61.3			24.4	50	
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Sodium PPM	988	10.0	"		1090			9.63	50	
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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

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4E0723 - Saturated Paste pH/EC										
Blank (B4E0723-BLK1)					Prepared: 05/07/2024 Analyzed: 05/08/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							Ua
Duplicate (B4E0723-DUP1)		Source: Y405170-13			Prepared: 05/07/2024 Analyzed: 05/08/2024					
pH	8.38		pH Units		8.38			0.00	25	
Specific Conductance (EC)	4.26	0.00500	mmhos/cm		4.57			7.03	25	

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Jen Pellegrini, Project Manager

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
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2616220 - SW846 3060A										
BLANK (1205742299-BLK)					Prepared: 05/23/2024 Analyzed: 05/24/2024					
Hexavalent Chromium	ND	0.241	mg/kg				-			U
LCS (1205742300-BKS)					Prepared: 05/23/2024 Analyzed: 05/24/2024					
Hexavalent Chromium	3.11	0.318	mg/kg	3.18		97.9	80-120			
DUP (1205742301 D)					Source: 667553012 Prepared: 05/23/2024 Analyzed: 05/24/2024					
Hexavalent Chromium	ND	0.263	mg/kg dry		<0.105		0-50	N/A	50	U
MS (1205742302 S)					Source: 667553012 Prepared: 05/23/2024 Analyzed: 05/24/2024					
Hexavalent Chromium	1.17	0.263	mg/kg dry	2.63	<0.105	42.1	75-125			
DUP (1205742303 D)					Source: 667562008 Prepared: 05/23/2024 Analyzed: 05/24/2024					
Hexavalent Chromium	ND	0.342	mg/kg dry		<0.137		0-50	N/A	50	U
MS (1205742304 S)					Source: 667562008 Prepared: 05/23/2024 Analyzed: 05/24/2024					
Hexavalent Chromium	2.32	0.342	mg/kg dry	3.42	<0.137	66.5	75-125			
ILCS (1205742305-ILCS)					Prepared: 05/23/2024 Analyzed: 05/24/2024					
Hexavalent Chromium	6.23	0.292	mg/kg	6.00		104	80-120			

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1700 Lincoln St #4550
Denver CO 80203

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

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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