

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

July 30, 2018

Susana Lara-Mesa
K.P. Kauffman
1675 Broadway
Denver, CO 80202
RE: Fac #1

Enclosed are the results of analyses for samples received by Summit Scientific on 07/25/18 13:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Muri Premier For Ben Shrewsbury
Laboratory Manager



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Fac #1

Project Number: [none]
Project Manager: Susana Lara-Mesa

Reported:
07/30/18 18:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NE1	1807333-01	Soil	07/24/18 09:00	07/25/18 13:00
NE2	1807333-02	Soil	07/24/18 09:00	07/25/18 13:00
NW1	1807333-03	Soil	07/24/18 09:00	07/25/18 13:00
NW2	1807333-04	Soil	07/24/18 09:00	07/25/18 13:00
SE1	1807333-05	Soil	07/24/18 09:00	07/25/18 13:00
SE2	1807333-06	Soil	07/24/18 09:00	07/25/18 13:00
SW1	1807333-07	Soil	07/24/18 09:00	07/25/18 13:00
SW2	1807333-08	Soil	07/24/18 09:00	07/25/18 13:00
CENTER1	1807333-09	Soil	07/24/18 09:00	07/25/18 13:00
CENTER2	1807333-10	Soil	07/24/18 09:00	07/25/18 13:00

Summit Scientific

741 Corporate Circle Suite 1 ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

223

Client: KP Kauffman

Address: 1675 Broadway

City/State/Zip: Denver, CO 80202

Phone: 303-825-4822 Fax: 303-825-4825

Sampler Name: Susana Lara-Mesa

Project Manager: Susana Lara-Mesa

E-Mail: slaramesa@kpk.com

Project Name: Fac #1

Project Number:

Page 1 of 1

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix			Analyze For:				Special Instructions	
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	BTEX	TPH-DRO	TPH-GRO		TPH-ORO
NE1	7/24/2018	9AM	1					X								
NE2	7/24/2018	9AM	1					X								
NW1	7/24/2018	9AM	1					X								
NW2	7/24/2018	9AM	1					X								
SE1	7/24/2018	9AM	1					X								
SW2 SE2	7/24/2018	9AM	1					X								
SW1	7/24/2018	9AM	1					X								
SW2	7/24/2018	9AM	1					X								
CENTER1	7/24/2018	9AM	1					X								
CENTER2	7/24/2018	9AM	1					X								
Relinquished by: <i>N. Kauffman</i>				Date/Time: 7/25/18 1pm	Received by: <i>[Signature]</i>	Date/Time: 7.25.18 1pm	Turn Around Time (Check)				Notes: <i>on ice</i>					
Relinquished by:				Date/Time:	Received by:	Date/Time:	Sample Integrity:									
Relinquished by:				Date/Time:	Received in Lab by:	Date/Time:	Temperature Upon Receipt: 15.0									
Relinquished by:				Date/Time:	Received in Lab by:	Date/Time:	Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No									

1807333

Sample Receipt Checklist

S2 Work Order: _____

Client: KP Kaufman Client Project ID: Fac #1Shipped Via: Pickup Airbill #: _____
(UPS, FedEx, Hand Delivered, Pick-up, etc.)Matrix (check all that apply): Air / Soil/Solid Water Other: _____
(Describe)

Temp (°C)	<u>13.0</u>
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Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ?				
NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	<u>/</u>			
Were all samples received intact ⁽¹⁾ ?	<u>/</u>			
Was adequate sample volume provided ⁽¹⁾ ?	<u>/</u>			
If custody seals are present, are they intact ⁽¹⁾ ?			<u>/</u>	
Are samples with holding times due within 48 hours sample due within 48 hours present?			<u>/</u>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<u>/</u>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<u>/</u>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<u>/</u>			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<u>/</u>			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			<u>/</u>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ?			<u>/</u>	
Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect				
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ?			<u>/</u>	
Record the pH in Comments.			<u>/</u>	
If dissolved metals are requested, were samples field filtered?			<u>/</u>	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

UP
Custodian Printed Name or Initials[Signature]
Signature or Initials of Custodian7.25.18 1422
Date/Time



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Fac #1
Project Number: [none]
Project Manager: Susana Lara-Mesa

Reported:
07/30/18 18:49

NE1
1807333-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1807316	07/26/18	07/27/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1807317	07/26/18	07/27/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		100 %	30-150		"	"	"	"	

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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.



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Fac #1
Project Number: [none]
Project Manager: Susana Lara-Mesa

Reported:
07/30/18 18:49

NE2
1807333-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1807316	07/26/18	07/27/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		115 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1807317	07/26/18	07/27/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		98.1 %	30-150		"	"	"	"	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Fac #1
Project Number: [none]
Project Manager: Susana Lara-Mesa

Reported:
07/30/18 18:49

NW1
1807333-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1807316	07/26/18	07/27/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		109 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1807317	07/26/18	07/27/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		102 %	30-150		"	"	"	"	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Fac #1
Project Number: [none]
Project Manager: Susana Lara-Mesa

Reported:
07/30/18 18:49

NW2
1807333-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1807316	07/26/18	07/27/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		108 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1807317	07/26/18	07/27/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		97.7 %	30-150		"	"	"	"	

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K.P. Kauffman
1675 Broadway
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Project: Fac #1
Project Number: [none]
Project Manager: Susana Lara-Mesa

Reported:
07/30/18 18:49

SE1
1807333-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1807316	07/26/18	07/27/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		109 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1807317	07/26/18	07/27/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		97.6 %	30-150		"	"	"	"	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Fac #1
Project Number: [none]
Project Manager: Susana Lara-Mesa

Reported:
07/30/18 18:49

SE2
1807333-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1807316	07/26/18	07/27/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		111 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1807317	07/26/18	07/27/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		100 %	30-150		"	"	"	"	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Fac #1
Project Number: [none]
Project Manager: Susana Lara-Mesa

Reported:
07/30/18 18:49

SW1
1807333-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1807316	07/26/18	07/27/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		112 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1807317	07/26/18	07/27/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		97.8 %	30-150		"	"	"	"	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Fac #1
Project Number: [none]
Project Manager: Susana Lara-Mesa

Reported:
07/30/18 18:49

SW2
1807333-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1807316	07/26/18	07/27/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1807317	07/26/18	07/27/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		99.7 %	30-150		"	"	"	"	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Fac #1
Project Number: [none]
Project Manager: Susana Lara-Mesa

Reported:
07/30/18 18:49

CENTER1
1807333-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1807316	07/26/18	07/27/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		108 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1807317	07/26/18	07/27/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		98.7 %	30-150		"	"	"	"	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Fac #1
Project Number: [none]
Project Manager: Susana Lara-Mesa

Reported:
07/30/18 18:49

CENTER2
1807333-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1807316	07/26/18	07/27/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		107 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	56	50	mg/kg	1	1807317	07/26/18	07/27/18	EPA 8015M	
C28-C36 (ORO)	100	50	"	"	"	"	"	"	

Date Sampled: **07/24/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		97.0 %	30-150		"	"	"	"	

Summit Scientific

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.



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Fac #1
Project Number: [none]
Project Manager: Susana Lara-Mesa

Reported:
07/30/18 18:49

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1807316 - EPA 5030 Soil MS

Blank (1807316-BLK1)

Prepared: 07/26/18 Analyzed: 07/27/18

Benzene	ND	0.0020	mg/kg
Toluene	ND	0.0050	"
Ethylbenzene	ND	0.0050	"
Xylenes (total)	ND	0.010	"
Gasoline Range Hydrocarbons	ND	0.50	"

Surrogate: 1,2-Dichloroethane-d4	0.0424	"	0.0396	107	23-173
Surrogate: Toluene-d8	0.0401	"	0.0400	100	20-170
Surrogate: 4-Bromofluorobenzene	0.0399	"	0.0400	99.8	21-167

LCS (1807316-BS1)

Prepared: 07/26/18 Analyzed: 07/27/18

Benzene	0.124	0.0020	mg/kg	0.125	99.2	70-130
Toluene	0.132	0.0050	"	0.125	105	70-130
Ethylbenzene	0.129	0.0050	"	0.125	103	70-130
m,p-Xylene	0.253	0.010	"	0.250	101	70-130
o-Xylene	0.133	0.0050	"	0.125	106	70-130

Surrogate: 1,2-Dichloroethane-d4	0.0400	"	0.0396	101	23-173
Surrogate: Toluene-d8	0.0413	"	0.0400	103	20-170
Surrogate: 4-Bromofluorobenzene	0.0390	"	0.0400	97.4	21-167

Matrix Spike (1807316-MS1)

Source: 1807317-01

Prepared: 07/26/18 Analyzed: 07/27/18

Benzene	0.0902	0.0020	mg/kg	0.125	ND	72.1	70-130
Toluene	0.0950	0.0050	"	0.125	ND	76.0	70-130
Ethylbenzene	0.0920	0.0050	"	0.125	ND	73.6	70-130
m,p-Xylene	0.180	0.010	"	0.250	ND	72.2	70-130
o-Xylene	0.0958	0.0050	"	0.125	ND	76.6	70-130

Surrogate: 1,2-Dichloroethane-d4	0.0405	"	0.0396	102	23-173
Surrogate: Toluene-d8	0.0413	"	0.0400	103	20-170
Surrogate: 4-Bromofluorobenzene	0.0405	"	0.0400	101	21-167

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Fac #1

Project Number: [none]
Project Manager: Susana Lara-Mesa

Reported:
07/30/18 18:49

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1807316 - EPA 5030 Soil MS

Matrix Spike Dup (1807316-MSD1)	Source: 1807317-01			Prepared: 07/26/18 Analyzed: 07/27/18						
Benzene	0.0856	0.0020	mg/kg	0.125	ND	68.4	70-130	5.26	30	QM-07
Toluene	0.0903	0.0050	"	0.125	ND	72.2	70-130	5.15	30	
Ethylbenzene	0.0862	0.0050	"	0.125	ND	69.0	70-130	6.46	30	QM-07
m,p-Xylene	0.172	0.010	"	0.250	ND	68.9	70-130	4.63	30	QM-07
o-Xylene	0.0905	0.0050	"	0.125	ND	72.4	70-130	5.67	30	
Surrogate: 1,2-Dichloroethane-d4	0.0402		"	0.0396		102	23-173			
Surrogate: Toluene-d8	0.0412		"	0.0400		103	20-170			
Surrogate: 4-Bromofluorobenzene	0.0399		"	0.0400		99.8	21-167			



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Fac #1
Project Number: [none]
Project Manager: Susana Lara-Mesa

Reported:
07/30/18 18:49

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1807317 - EPA 3550A

Blank (1807317-BLK1)

Prepared: 07/26/18 Analyzed: 07/27/18

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

LCS (1807317-BS1)

Prepared: 07/26/18 Analyzed: 07/27/18

C10-C28 (DRO)	499	50	mg/kg	81.4-129
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Matrix Spike (1807317-MS1)

Source: 1807317-01

Prepared: 07/26/18 Analyzed: 07/27/18

C10-C28 (DRO)	620	50	mg/kg	75.2	77.8-133
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Matrix Spike Dup (1807317-MSD1)

Source: 1807317-01

Prepared: 07/26/18 Analyzed: 07/27/18

C10-C28 (DRO)	600	50	mg/kg	75.2	77.8-133	3.19	8.48
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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Fac #1

Project Number: [none]
Project Manager: Susana Lara-Mesa

Reported:
07/30/18 18:49

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference