

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 10, 2021

Max Knop

K.P. Kauffman

1675 Broadway

Denver, CO 80202

RE: Woolley #1 Flowline Release

Work Order #2103016

Enclosed are the results of analyses for samples received by Summit Scientific on 03/01/21 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury

President



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Woolley #1 Flowline Release

Project Number: [none]
Project Manager: Max Knop

Reported:
03/10/21 09:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
#001	2103016-01	Soil	02/26/21 10:00	03/01/21 16:30
#002	2103016-02	Soil	02/26/21 10:00	03/01/21 16:30
#003	2103016-03	Soil	02/26/21 10:00	03/01/21 16:30
#004	2103016-04	Soil	02/26/21 10:00	03/01/21 16:30
#005 (BG)	2103016-05	Soil	02/26/21 10:00	03/01/21 16:30

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.

2103016

Page 1 of 1

Project Manager:	Max Knop
E-Mail:	mknop@kpk.com; mduran@kpk.com
Project Name:	Woolley #1 Flowline Release
Project Number:	

				Preservative				Matrix				Analyze For:												Special Instructions												
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	Table 915-1 Suite																								
#001	2/26/2021	10:00	1						x			x																								
#002	2/26/2021	10:00	1						x			x																								
#003	2/26/2021	10:00	1						x			x																								
#004	2/26/2021	10:00	1						x			x																								
#005 (BG)	2/26/2021	10:00	1						x			x																								
Relinquished by: <i>[Signature]</i> Date/Time: 3/1/21												Received by: <i>[Signature]</i> Date/Time: 03/01/2021												Turn Around Time (Check)												Notes:
Relinquished by: <i>[Signature]</i> Date/Time: 3/1/21												Received by: <i>[Signature]</i> Date/Time: 03/01/2021												Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 Hours <input type="checkbox"/>												
Relinquished by: <i>[Signature]</i> Date/Time: 3/1/21												Received in Lab by: <i>[Signature]</i> Date/Time: 03/01/2021												Sample Integrity: Temperature Upon Receipt: 2.1 Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>												

Sample Receipt Checklist

S2 Work Order 2103016

Client: KP KAUFFMAN

Client Project ID: WOOLLEY 1 FLOWLINE

Shipped Via: ☐ H.D./P.U./FedEx/UPS/USPS/Other ☐ Air ☒ Soil/Solid ☐ Water ☐ Other: _____

Matrix (check all that apply): ☐ Air ☒ Soil/Solid ☐ Water ☐ Other: _____
(Describe)

Temp (°C)	2.1
-----------	-----

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.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

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

RZ

Custodian Printed Name or Initials

Signature of Custodian

3/1/21

Date/Time



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Woolley #1 Flowline Release

Project Number: [none]
Project Manager: Max Knop

Reported:
03/10/21 09:25

#001
2103016-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEC0059	03/02/21	03/04/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.1 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	210	50	mg/kg	1	BEC0058	03/02/21	03/04/21	EPA 8015M	
C28-C36 (ORO)	56	50	"	"	"	"	"	"	

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		108 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Manager: Max Knop

Reported:
03/10/21 09:25

#001
2103016-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEC0142	03/06/21	03/08/21	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		48.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		54.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	7.96	0.228	mg/kg dry	1	BEC0102	03/04/21	03/05/21	EPA 6020B	
Barium	82.4	0.456	"	"	"	"	"	"	
Boron	1.50	0.0100	mg/L	"	BEC0076	03/03/21	03/04/21	"	
Cadmium	ND	0.228	mg/kg dry	"	BEC0102	03/04/21	03/05/21	"	
Copper	20.2	0.456	"	"	"	"	"	"	
Lead	13.2	0.228	"	"	"	"	"	"	
Nickel	14.7	0.456	"	"	"	"	"	"	

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Project: Woolley #1 Flowline Release

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Reported:
03/10/21 09:25

#001
2103016-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Selenium	ND	0.296	mg/kg dry	1	BEC0102	03/04/21	03/05/21	EPA 6020B
Silver	ND	0.0228	"	"	"	"	"	"
Zinc	53.2	0.456	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEC0126	03/05/21	03/05/21	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	369	0.0570	mg/L dry	1	BEC0135	03/05/21	03/09/21	EPA 6020B	
Magnesium	260	0.0570	"	"	"	"	"	"	
Sodium	1280	0.0570	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	12.5	0.100	units	1	BEC0172	03/09/21	03/09/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.7		%	1	BEC0098	03/04/21	03/05/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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#001
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	6.46	0.0100		mmhos/cm	1	BEC0161	03/08/21	03/08/21	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.24			pH Units	1	BEC0162	03/08/21	03/08/21	EPA 9045D	

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1675 Broadway
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Project: Woolley #1 Flowline Release

Project Number: [none]
Project Manager: Max Knop

Reported:
03/10/21 09:25

#002
2103016-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BEC0059	03/02/21	03/04/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		119 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	270	50	mg/kg	1	BEC0058	03/02/21	03/04/21	EPA 8015M	
C28-C36 (ORO)	81	50	"	"	"	"	"	"	

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		115 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Woolley #1 Flowline Release

Project Number: [none]
Project Manager: Max Knop

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#002
2103016-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEC0142	03/06/21	03/08/21	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.00504	0.00500	"	"	"	"	"	"	

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		52.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		49.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	10.0	0.229	mg/kg dry	1	BEC0102	03/04/21	03/05/21	EPA 6020B	
Barium	89.3	0.458	"	"	"	"	"	"	
Cadmium	ND	0.229	"	"	"	"	"	"	
Boron	2.23	0.0100	mg/L	"	BEC0076	03/03/21	03/04/21	"	
Copper	16.6	0.458	mg/kg dry	"	BEC0102	03/04/21	03/05/21	"	
Lead	13.7	0.229	"	"	"	"	"	"	
Nickel	16.8	0.458	"	"	"	"	"	"	

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K.P. Kauffman
1675 Broadway
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Project: Woolley #1 Flowline Release

Project Number: [none]
Project Manager: Max Knop

Reported:
03/10/21 09:25

#002
2103016-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Selenium	ND	0.298	mg/kg dry	1	BEC0102	03/04/21	03/05/21	EPA 6020B
Silver	0.0280	0.0229	"	"	"	"	"	"
Zinc	59.7	0.458	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEC0126	03/05/21	03/05/21	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	435	0.0573	mg/L dry	1	BEC0135	03/05/21	03/09/21	EPA 6020B	
Magnesium	418	0.0573	"	"	"	"	"	"	
Sodium	2060	0.0573	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	16.9	0.100	units	1	BEC0172	03/09/21	03/09/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.3		%	1	BEC0098	03/04/21	03/05/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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Project: Woolley #1 Flowline Release

Project Number: [none]
Project Manager: Max Knop

Reported:
03/10/21 09:25

#002
2103016-02 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	9.30	0.0100		mmhos/cm	1	BEC0161	03/08/21	03/08/21	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.18			pH Units	1	BEC0162	03/08/21	03/08/21	EPA 9045D	

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1675 Broadway
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Project: Woolley #1 Flowline Release

Project Number: [none]
Project Manager: Max Knop

Reported:
03/10/21 09:25

#003
2103016-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BEC0059	03/02/21	03/04/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		102 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		106 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	86	50	mg/kg	1	BEC0058	03/02/21	03/04/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		109 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Woolley #1 Flowline Release

Project Number: [none]
Project Manager: Max Knop

Reported:
03/10/21 09:25

#003
2103016-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEC0142	03/06/21	03/08/21	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.00542	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		48.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		40.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	10.6	0.231	mg/kg dry	1	BEC0102	03/04/21	03/05/21	EPA 6020B	
Barium	96.2	0.462	"	"	"	"	"	"	
Cadmium	ND	0.231	"	"	"	"	"	"	
Boron	1.99	0.0100	mg/L	"	BEC0076	03/03/21	03/04/21	"	
Copper	17.6	0.462	mg/kg dry	"	BEC0102	03/04/21	03/05/21	"	
Lead	13.1	0.231	"	"	"	"	"	"	
Nickel	17.0	0.462	"	"	"	"	"	"	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Woolley #1 Flowline Release

Project Number: [none]
Project Manager: Max Knop

Reported:
03/10/21 09:25

#003
2103016-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Selenium	ND	0.300	mg/kg dry	1	BEC0102	03/04/21	03/05/21	EPA 6020B
Silver	0.0412	0.0231	"	"	"	"	"	"
Zinc	57.4	0.462	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEC0126	03/05/21	03/05/21	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	336	0.0578	mg/L dry	1	BEC0135	03/05/21	03/09/21	EPA 6020B	
Magnesium	325	0.0578	"	"	"	"	"	"	
Sodium	1610	0.0578	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	15.0	0.100	units	1	BEC0172	03/09/21	03/09/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.6		%	1	BEC0098	03/04/21	03/05/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Woolley #1 Flowline Release

Project Number: [none]
Project Manager: Max Knop

Reported:
03/10/21 09:25

#003
2103016-03 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	7.26	0.0100		mmhos/cm	1	BEC0161	03/08/21	03/08/21	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.16			pH Units	1	BEC0162	03/08/21	03/08/21	EPA 9045D	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Woolley #1 Flowline Release

Project Number: [none]
Project Manager: Max Knop

Reported:
03/10/21 09:25

#004
2103016-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BEC0059	03/02/21	03/04/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		109 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		111 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	150	50	mg/kg	1	BEC0058	03/02/21	03/04/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		113 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Woolley #1 Flowline Release

Project Number: [none]
Project Manager: Max Knop

Reported:
03/10/21 09:25

#004
2103016-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEC0142	03/06/21	03/09/21	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.00837	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.0120	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.00865	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.0104	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0105	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0131	0.00500	"	"	"	"	"	"	

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		42.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		51.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	11.0	0.224	mg/kg dry	1	BEC0102	03/04/21	03/05/21	EPA 6020B	
Barium	105	0.448	"	"	"	"	"	"	
Boron	1.29	0.0100	mg/L	"	BEC0076	03/03/21	03/04/21	"	
Cadmium	ND	0.224	mg/kg dry	"	BEC0102	03/04/21	03/05/21	"	
Copper	17.6	0.448	"	"	"	"	"	"	
Lead	12.3	0.224	"	"	"	"	"	"	
Nickel	18.6	0.448	"	"	"	"	"	"	
Selenium	ND	0.291	"	"	"	"	"	"	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Woolley #1 Flowline Release

Project Number: [none]
Project Manager: Max Knop

Reported:
03/10/21 09:25

#004
2103016-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Silver	ND	0.0224	mg/kg dry	1	BEC0102	03/04/21	03/05/21	EPA 6020B
Zinc	60.5	0.448	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEC0126	03/05/21	03/05/21	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	437	0.0560	mg/L dry	1	BEC0135	03/05/21	03/09/21	EPA 6020B	
Magnesium	307	0.0560	"	"	"	"	"	"	
Sodium	1410	0.0560	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	12.6	0.100	units	1	BEC0172	03/09/21	03/09/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.3		%	1	BEC0098	03/04/21	03/05/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Woolley #1 Flowline Release

Project Number: [none]
Project Manager: Max Knop

Reported:
03/10/21 09:25

#004
2103016-04 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	7.42	0.0100		mmhos/cm	1	BEC0161	03/08/21	03/08/21	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.25			pH Units	1	BEC0162	03/08/21	03/08/21	EPA 9045D	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Woolley #1 Flowline Release

Project Number: [none]
Project Manager: Max Knop

Reported:
03/10/21 09:25

#005 (BG)
2103016-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BEC0059	03/02/21	03/04/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		108 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BEC0058	03/02/21	03/04/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		110 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Woolley #1 Flowline Release

Project Number: [none]
Project Manager: Max Knop

Reported:
03/10/21 09:25

#005 (BG)
2103016-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEC0142	03/06/21	03/09/21	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.0117	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0102	0.00500	"	"	"	"	"	"	
Fluorene	0.0200	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.0120	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0305	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0263	0.00500	"	"	"	"	"	"	

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		50.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		53.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	7.03	0.225	mg/kg dry	1	BEC0102	03/04/21	03/05/21	EPA 6020B	
Barium	120	0.451	"	"	"	"	"	"	
Boron	1.06	0.0100	mg/L	"	BEC0076	03/03/21	03/04/21	"	
Cadmium	0.229	0.225	mg/kg dry	"	BEC0102	03/04/21	03/05/21	"	
Copper	18.1	0.451	"	"	"	"	"	"	
Lead	14.5	0.225	"	"	"	"	"	"	
Nickel	20.6	0.451	"	"	"	"	"	"	
Selenium	ND	0.293	"	"	"	"	"	"	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Woolley #1 Flowline Release

Project Number: [none]
Project Manager: Max Knop

Reported:
03/10/21 09:25

#005 (BG)
2103016-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Silver	0.0282	0.0225	mg/kg dry	1	BEC0102	03/04/21	03/05/21	EPA 6020B
Zinc	67.2	0.451	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEC0126	03/05/21	03/05/21	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	382	0.0564	mg/L dry	1	BEC0135	03/05/21	03/09/21	EPA 6020B	
Magnesium	264	0.0564	"	"	"	"	"	"	
Sodium	825	0.0564	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.95	0.100	units	1	BEC0172	03/09/21	03/09/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.7		%	1	BEC0098	03/04/21	03/05/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Woolley #1 Flowline Release

Project Number: [none]
Project Manager: Max Knop

Reported:
03/10/21 09:25

#005 (BG)
2103016-05 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	5.29	0.0100		mmhos/cm	1	BEC0161	03/08/21	03/08/21	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **02/26/21 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.17			pH Units	1	BEC0162	03/08/21	03/08/21	EPA 9045D	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Woolley #1 Flowline Release

Project Number: [none]
Project Manager: Max Knop

Reported:
03/10/21 09:25

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 BEC0059 - EPA 5030 Soil MS

Blank (BEC0059-BLK1)

Prepared: 03/02/21 Analyzed: 03/04/21

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0336		"	0.0400		84.0	23-173			
Surrogate: Toluene-d8	0.0452		"	0.0400		113	20-170			
Surrogate: 4-Bromofluorobenzene	0.0399		"	0.0400		99.8	21-167			

LCS (BEC0059-BS1)

Prepared: 03/02/21 Analyzed: 03/04/21

Benzene	0.0710	0.0020	mg/kg	0.100		71.0	70-130			
Toluene	0.0892	0.0050	"	0.100		89.2	70-130			
Ethylbenzene	0.0961	0.0050	"	0.100		96.1	70-130			
m,p-Xylene	0.185	0.010	"	0.200		92.3	70-130			
o-Xylene	0.0909	0.0050	"	0.100		90.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0274		"	0.0400		68.4	23-173			
Surrogate: Toluene-d8	0.0418		"	0.0400		105	20-170			
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400		99.2	21-167			

Matrix Spike (BEC0059-MS1)

Source: 2103004-01

Prepared: 03/02/21 Analyzed: 03/04/21

Benzene	0.0760	0.0020	mg/kg	0.100	ND	76.0	70-130			
Toluene	0.0782	0.0050	"	0.100	ND	78.2	70-130			
Ethylbenzene	0.0940	0.0050	"	0.100	ND	94.0	70-130			
m,p-Xylene	0.175	0.010	"	0.200	ND	87.7	70-130			
o-Xylene	0.0881	0.0050	"	0.100	ND	88.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0322		"	0.0400		80.5	23-173			
Surrogate: Toluene-d8	0.0368		"	0.0400		92.1	20-170			
Surrogate: 4-Bromofluorobenzene	0.0379		"	0.0400		94.7	21-167			

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: Woolley #1 Flowline Release

Project Number: [none]
Project Manager: Max Knop

Reported:
03/10/21 09:25

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 BEC0059 - EPA 5030 Soil MS

Matrix Spike Dup (BEC0059-MSD1)	Source: 2103004-01			Prepared: 03/02/21 Analyzed: 03/04/21						
Benzene	0.0754	0.0020	mg/kg	0.100	ND	75.4	70-130	0.832	30	
Toluene	0.0832	0.0050	"	0.100	ND	83.2	70-130	6.17	30	
Ethylbenzene	0.0984	0.0050	"	0.100	ND	98.4	70-130	4.55	30	
m,p-Xylene	0.185	0.010	"	0.200	ND	92.3	70-130	5.11	30	
o-Xylene	0.0922	0.0050	"	0.100	ND	92.2	70-130	4.59	30	
Surrogate: 1,2-Dichloroethane-d4	0.0300		"	0.0400		75.1	23-173			
Surrogate: Toluene-d8	0.0385		"	0.0400		96.2	20-170			
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400		99.2	21-167			

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: Woolley #1 Flowline Release

Project Number: [none]
Project Manager: Max Knop

Reported:
03/10/21 09:25

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 BEC0058 - EPA 3550A

Blank (BEC0058-BLK1)

Prepared: 03/02/21 Analyzed: 03/03/21

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

LCS (BEC0058-BS1)

Prepared: 03/02/21 Analyzed: 03/03/21

C10-C28 (DRO)	574	50	mg/kg	500	115	70-130
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Matrix Spike (BEC0058-MS1)

Source: 2103004-01

Prepared: 03/02/21 Analyzed: 03/03/21

C10-C28 (DRO)	456	50	mg/kg	500	20.1	87.3	70-130
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Matrix Spike Dup (BEC0058-MSD1)

Source: 2103004-01

Prepared: 03/02/21 Analyzed: 03/03/21

C10-C28 (DRO)	458	50	mg/kg	500	20.1	87.5	70-130	0.258	20
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Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Woolley #1 Flowline Release

Project Number: [none]
Project Manager: Max Knop

Reported:
03/10/21 09:25

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BEC0142 - EPA 5030 Soil MS

Blank (BEC0142-BLK1)

Prepared: 03/06/21 Analyzed: 03/08/21

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0166		"	0.0333		49.8	40-150			
Surrogate: Fluoranthene-d10	0.0164		"	0.0333		49.3	40-150			

LCS (BEC0142-BS1)

Prepared: 03/06/21 Analyzed: 03/08/21

Acenaphthene	0.0358	0.00500	mg/kg	0.0333	108	31-137
Anthracene	0.0345	0.00500	"	0.0333	103	30-120
Benzo (a) anthracene	0.0330	0.00500	"	0.0333	98.9	30-120
Benzo (a) pyrene	0.0358	0.00500	"	0.0333	108	30-120
Benzo (b) fluoranthene	0.0186	0.00500	"	0.0333	55.8	30-120
Benzo (k) fluoranthene	0.0198	0.00500	"	0.0333	59.5	30-120
Chrysene	0.0316	0.00500	"	0.0333	94.7	30-120
Dibenz (a,h) anthracene	0.0311	0.00500	"	0.0333	93.2	30-120
Fluoranthene	0.0289	0.00500	"	0.0333	86.7	30-120
Fluorene	0.0357	0.00500	"	0.0333	107	30-120
Indeno (1,2,3-cd) pyrene	0.0266	0.00500	"	0.0333	79.7	30-120
Pyrene	0.0361	0.00500	"	0.0333	108	35-142
1-Methylnaphthalene	0.0314	0.00500	"	0.0333	94.3	35-142
2-Methylnaphthalene	0.0342	0.00500	"	0.0333	103	35-142
Surrogate: 2-Methylnaphthalene-d10	0.0183		"	0.0333	54.9	40-150
Surrogate: Fluoranthene-d10	0.0198		"	0.0333	59.3	40-150

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Woolley #1 Flowline Release

Project Number: [none]
Project Manager: Max Knop

Reported:
03/10/21 09:25

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BEC0142 - EPA 5030 Soil MS

Matrix Spike (BEC0142-MS1)

Source: 2102394-01

Prepared: 03/06/21 Analyzed: 03/08/21

Acenaphthene	0.0350	0.00500	mg/kg	0.0333	ND	105	31-137		
Anthracene	0.0348	0.00500	"	0.0333	ND	104	30-120		
Benzo (a) anthracene	0.0331	0.00500	"	0.0333	ND	99.3	30-120		
Benzo (a) pyrene	0.0355	0.00500	"	0.0333	ND	107	30-120		
Benzo (b) fluoranthene	0.0182	0.00500	"	0.0333	ND	54.5	30-120		
Benzo (k) fluoranthene	0.0192	0.00500	"	0.0333	ND	57.7	30-120		
Chrysene	0.0319	0.00500	"	0.0333	ND	95.7	30-120		
Dibenz (a,h) anthracene	0.0305	0.00500	"	0.0333	ND	91.4	30-120		
Fluoranthene	0.0296	0.00500	"	0.0333	ND	88.8	30-120		
Fluorene	0.0361	0.00500	"	0.0333	ND	108	30-120		
Indeno (1,2,3-cd) pyrene	0.0263	0.00500	"	0.0333	ND	78.8	30-120		
Pyrene	0.0374	0.00500	"	0.0333	ND	112	35-142		
1-Methylnaphthalene	0.0313	0.00500	"	0.0333	ND	93.9	15-130		
2-Methylnaphthalene	0.0334	0.00500	"	0.0333	ND	100	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0177		"	0.0333		53.1	40-150		
Surrogate: Fluoranthene-d10	0.0184		"	0.0333		55.1	40-150		

Matrix Spike Dup (BEC0142-MSD1)

Source: 2102394-01

Prepared: 03/06/21 Analyzed: 03/08/21

Acenaphthene	0.0307	0.00500	mg/kg	0.0333	ND	92.1	31-137	13.0	30
Anthracene	0.0299	0.00500	"	0.0333	ND	89.8	30-120	15.1	30
Benzo (a) anthracene	0.0280	0.00500	"	0.0333	ND	84.1	30-120	16.7	30
Benzo (a) pyrene	0.0306	0.00500	"	0.0333	ND	91.9	30-120	14.8	30
Benzo (b) fluoranthene	0.0197	0.00500	"	0.0333	ND	59.0	30-120	8.04	30
Benzo (k) fluoranthene	0.0180	0.00500	"	0.0333	ND	53.9	30-120	6.87	30
Chrysene	0.0274	0.00500	"	0.0333	ND	82.2	30-120	15.2	30
Dibenz (a,h) anthracene	0.0262	0.00500	"	0.0333	ND	78.5	30-120	15.2	30
Fluoranthene	0.0264	0.00500	"	0.0333	ND	79.1	30-120	11.6	30
Fluorene	0.0313	0.00500	"	0.0333	ND	94.0	30-120	14.1	30
Indeno (1,2,3-cd) pyrene	0.0224	0.00500	"	0.0333	ND	67.3	30-120	15.8	30
Pyrene	0.0312	0.00500	"	0.0333	ND	93.5	35-142	18.2	30
1-Methylnaphthalene	0.0267	0.00500	"	0.0333	ND	80.0	15-130	16.0	50
2-Methylnaphthalene	0.0295	0.00500	"	0.0333	ND	88.6	15-130	12.3	50
Surrogate: 2-Methylnaphthalene-d10	0.0371		"	0.0333		111	40-150		
Surrogate: Fluoranthene-d10	0.0448		"	0.0333		134	40-150		

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Woolley #1 Flowline Release

Project Number: [none]
Project Manager: Max Knop

Reported:
03/10/21 09:25

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

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

Batch BEC0076 - EPA 3050B

Blank (BEC0076-BLK1)

Prepared: 03/03/21 Analyzed: 03/04/21

Boron ND 0.0100 mg/L

LCS (BEC0076-BS1)

Prepared: 03/03/21 Analyzed: 03/04/21

Boron 4.54 0.0100 mg/L 5.00 90.8 80-120

Duplicate (BEC0076-DUP1)

Source: 2103016-01

Prepared: 03/03/21 Analyzed: 03/04/21

Boron 1.35 0.0100 mg/L 1.50 10.8 20

Matrix Spike (BEC0076-MS1)

Source: 2103016-01

Prepared: 03/03/21 Analyzed: 03/04/21

Boron 5.71 0.0100 mg/L 5.00 1.50 84.2 75-125

Matrix Spike Dup (BEC0076-MSD1)

Source: 2103016-01

Prepared: 03/03/21 Analyzed: 03/04/21

Boron 6.12 0.0100 mg/L 5.00 1.50 92.4 75-125 6.93 25

Batch BEC0102 - EPA 3050B

Blank (BEC0102-BLK1)

Prepared: 03/04/21 Analyzed: 03/05/21

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Woolley #1 Flowline Release

Project Number: [none]
Project Manager: Max Knop

Reported:
03/10/21 09:25

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control

Summit Scientific

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

Batch BEC0102 - EPA 3050B

LCS (BEC0102-BS1)

Prepared: 03/04/21 Analyzed: 03/05/21

Arsenic	37.3	0.200	mg/kg wet	40.0		93.2	80-120			
Barium	36.7	0.400	"	40.0		91.8	80-120			
Cadmium	1.78	0.200	"	2.00		88.8	80-120			
Copper	37.0	0.400	"	40.0		92.4	80-120			
Lead	16.7	0.200	"	20.0		83.7	80-120			
Nickel	35.9	0.400	"	40.0		89.8	80-120			
Selenium	3.96	0.260	"	4.00		99.1	80-120			
Silver	1.74	0.0200	"	2.00		87.0	80-120			
Zinc	33.5	0.400	"	40.0		83.8	80-120			

Duplicate (BEC0102-DUP1)

Source: 2103016-01

Prepared: 03/04/21 Analyzed: 03/05/21

Arsenic	7.05	0.228	mg/kg dry		7.96			12.1	30	
Barium	71.8	0.456	"		82.4			13.7	30	
Cadmium	0.141	0.228	"		0.161			13.9	30	
Copper	17.9	0.456	"		20.2			11.9	30	
Lead	12.7	0.228	"		13.2			4.22	30	
Nickel	13.8	0.456	"		14.7			6.26	30	
Selenium	ND	0.296	"		ND				30	
Silver	0.0109	0.0228	"		0.0141			25.2	30	
Zinc	55.0	0.456	"		53.2			3.48	30	

Matrix Spike (BEC0102-MS1)

Source: 2103016-01

Prepared: 03/04/21 Analyzed: 03/05/21

Arsenic	50.6	0.228	mg/kg dry	45.6	7.96	93.5	75-125			
Barium	121	0.456	"	45.6	82.4	84.8	75-125			
Cadmium	2.34	0.228	"	2.28	0.161	95.6	75-125			
Copper	61.3	0.456	"	45.6	20.2	90.1	75-125			
Lead	32.3	0.228	"	22.8	13.2	83.8	75-125			
Nickel	60.0	0.456	"	45.6	14.7	99.4	75-125			
Selenium	4.78	0.296	"	4.56	ND	105	75-125			
Silver	2.16	0.0228	"	2.28	0.0141	94.0	75-125			
Zinc	106	0.456	"	45.6	53.2	116	75-125			

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Woolley #1 Flowline Release

Project Number: [none]
Project Manager: Max Knop

Reported:
03/10/21 09:25

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

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

Batch BEC0102 - EPA 3050B

Matrix Spike Dup (BEC0102-MSD1)

Source: 2103016-01

Prepared: 03/04/21 Analyzed: 03/05/21

Arsenic	48.6	0.228	mg/kg dry	45.6	7.96	89.2	75-125	3.88	25	
Barium	121	0.456	"	45.6	82.4	84.0	75-125	0.293	25	
Cadmium	2.05	0.228	"	2.28	0.161	82.8	75-125	13.2	25	
Copper	54.8	0.456	"	45.6	20.2	76.0	75-125	11.1	25	
Lead	30.4	0.228	"	22.8	13.2	75.3	75-125	6.17	25	
Nickel	58.5	0.456	"	45.6	14.7	95.9	75-125	2.66	25	
Selenium	4.36	0.296	"	4.56	ND	95.6	75-125	9.20	25	
Silver	1.83	0.0228	"	2.28	0.0141	79.7	75-125	16.3	25	
Zinc	104	0.456	"	45.6	53.2	111	75-125	2.18	25	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Woolley #1 Flowline Release

Project Number: [none]
Project Manager: Max Knop

Reported:
03/10/21 09:25

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BEC0126 - 3060A Mod

Blank (BEC0126-BLK1)

Prepared & Analyzed: 03/05/21

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BEC0126-BS1)

Prepared & Analyzed: 03/05/21

Chromium, Hexavalent 22.7 0.30 mg/kg wet 25.0 90.8 80-120

Duplicate (BEC0126-DUP1)

Source: 2103006-01

Prepared & Analyzed: 03/05/21

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BEC0126-MS1)

Source: 2103006-01

Prepared & Analyzed: 03/05/21

Chromium, Hexavalent 28.7 0.30 mg/kg dry 31.1 ND 92.2 75-125

Matrix Spike Dup (BEC0126-MSD1)

Source: 2103006-01

Prepared & Analyzed: 03/05/21

Chromium, Hexavalent 28.9 0.30 mg/kg dry 31.1 ND 93.0 75-125 0.864 20

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Woolley #1 Flowline Release

Project Number: [none]
Project Manager: Max Knop

Reported:
03/10/21 09:25

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BEC0135 - General Preparation

Blank (BEC0135-BLK1)

Prepared: 03/05/21 Analyzed: 03/09/21

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

LCS (BEC0135-BS1)

Prepared: 03/05/21 Analyzed: 03/09/21

Calcium	5.58	0.0500	mg/L wet	5.00	112	70-130
Magnesium	5.66	0.0500	"	5.00	113	70-130
Sodium	5.65	0.0500	"	5.00	113	70-130

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Woolley #1 Flowline Release

Project Number: [none]
Project Manager: Max Knop

Reported:
03/10/21 09:25

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

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

Batch BEC0098 - General Preparation

Duplicate (BEC0098-DUP1)		Source: 2103004-01		Prepared: 03/04/21 Analyzed: 03/05/21	
% Solids	76.6		%	76.4	0.275 20

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Woolley #1 Flowline Release

Project Number: [none]
Project Manager: Max Knop

Reported:
03/10/21 09:25

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BEC0161 - General Preparation

Blank (BEC0161-BLK1)

Prepared & Analyzed: 03/08/21

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BEC0161-BS1)

Prepared & Analyzed: 03/08/21

Specific Conductance (EC) 0.157 0.0100 mmhos/cm 0.150 105 90-110

Duplicate (BEC0161-DUP1)

Source: 2103016-01

Prepared & Analyzed: 03/08/21

Specific Conductance (EC) 6.54 0.0100 mmhos/cm 6.46 1.25 20

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Woolley #1 Flowline Release

Project Number: [none]
Project Manager: Max Knop

Reported:
03/10/21 09:25

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BEC0162 - General Preparation

LCS (BEC0162-BS1)

Prepared & Analyzed: 03/08/21

pH	9.23	pH Units	9.21	100	95-105
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Duplicate (BEC0162-DUP1)

Source: 2103016-01

Prepared & Analyzed: 03/08/21

pH	8.22	pH Units	8.24	0.243	20
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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: Woolley #1 Flowline Release

Project Number: [none]
Project Manager: Max Knop

Reported:
03/10/21 09:25

Notes and Definitions

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