

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 16, 2021

Alyssa Beard
Foundation Energy
1801 Broadway, Suite 1500
Denver, CO 80202

RE: Cure 11-33

Work Order #2107124

Enclosed are the results of analyses for samples received by Summit Scientific on 07/09/21 11:46. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large initial "M" and a long, sweeping underline.

Muri Premer For Paul Shrewsbury
President



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Cure 11-33
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
07/16/21 16:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Wellhead	2107124-01	Soil	07/08/21 14:09	07/09/21 11:46
PW Tank	2107124-02	Soil	07/08/21 14:15	07/09/21 11:46
Separator	2107124-03	Soil	07/08/21 14:21	07/09/21 11:46
Meter Shed	2107124-04	Soil	07/08/21 14:30	07/09/21 11:46

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.

2107124

Summit Scientific

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310 ♦ 303-374-5933 (f)

Client: Foundation Energy Project Manager: Alyssa Beard
Address: 1775 Sherman Street, Suite 1800 E-Mail: abeard@foundationenergy.com; aiiams@foundationenergy.com
City/State/Zip: Denver, CO 80202
Phone: (303) 244-8114 Project Name: CURE 11-33
Sampler Name: ~~A. Markowski~~ Alyson Eiams Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX	TPH	PH, EC, SAR	Boron	Naphthalene	1,2,4 trimethyl-1,3,5 benzene		
1	Wellhead	7/8/21	14 09	3						x				x	x	x	x	x	x	2 JARS & 1 BAG
2	PW Tank	7/8/21	14 15	3										x	x	x	x	x		
3	Separator	7/8/21	14 21	3										x	x	x	x	x		
4	Meter Shed	7/8/21	14 30	3										x	x	x	x	x		
5																				
6																				
7																				
8																				
9																				
10																				

Relinquished by: <u>Alyson Eiams</u> Date/Time: <u>07/09/21 11:46 AM</u>	Received by: <u>[Signature]</u> Date/Time: <u>07/09/21 11:46</u>	Turn Around Time (Check) 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"/>	Notes:
Relinquished by: _____ Date/Time: _____	Received by: _____ Date/Time: _____	Sample Integrity: Temperature Upon Receipt: <u>28.6</u> Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Relinquished by: _____ Date/Time: _____	Received by: _____ Date/Time: _____		

Sample Receipt Checklist

S2 Work Order 210724

Client: FOUNDATION Client Project ID: CURE 11 -33

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other _____ Airbill #: _____

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

Temp (°C)	28.6
-----------	------

Thermometer ID: 61857155-K

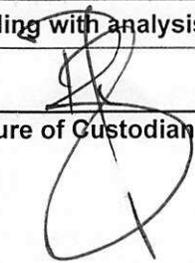
	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	✓			ON ICE
Were all samples received intact ⁽¹⁾ ?	✓			
Was adequate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

Additional Comments (if any):

2 JARS & 1 BAG

⁽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

7/9/21
Date/Time



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Cure 11-33

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
07/16/21 16:48

Wellhead
2107124-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/08/21 14:09**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BEG0207	07/13/21	07/14/21	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: **07/08/21 14:09**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		94.1 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %		21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/08/21 14:09**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BEG0209	07/13/21	07/15/21	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **07/08/21 14:09**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		94.1 %		30-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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.



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Cure 11-33

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
07/16/21 16:48

Wellhead
2107124-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/08/21 14:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.733	0.0100	mg/L	1	BEG0179	07/12/21	07/13/21	EPA 6020B	

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

Date Sampled: **07/08/21 14:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	15.8	0.0545	mg/L dry	1	BEG0180	07/12/21	07/14/21	EPA 6020B	
Magnesium	3.90	0.0545	"	"	"	"	"	"	
Sodium	86.1	0.0545	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **07/08/21 14:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.03	0.00100	units	1	BEG0265	07/15/21	07/15/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/08/21 14:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.8		%	1	BEG0237	07/14/21	07/15/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/08/21 14:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.497	0.0100	mmhos/cm	1	BEG0204	07/13/21	07/13/21	EPA 120.1	

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

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.



Foundation Energy
 1801 Broadway, Suite 1500
 Denver CO, 80202

Project: Cure 11-33
 Project Number: [none]
 Project Manager: Alyssa Beard

Reported:
 07/16/21 16:48

Wellhead
2107124-01 (Soil)

Summit Scientific

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

Date Sampled: **07/08/21 14:09**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.92			pH Units	1	BEG0202	07/13/21	07/13/21	EPA 9045D	

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.



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Cure 11-33
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
07/16/21 16:48

PW Tank
2107124-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/08/21 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEG0207	07/13/21	07/14/21	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: **07/08/21 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/08/21 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEG0209	07/13/21	07/15/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **07/08/21 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		89.5 %	30-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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.



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Cure 11-33

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
07/16/21 16:48

PW Tank
2107124-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/08/21 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.156	0.0100	mg/L	1	BEG0179	07/12/21	07/13/21	EPA 6020B	

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

Date Sampled: **07/08/21 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	46.6	0.0564	mg/L dry	1	BEG0180	07/12/21	07/14/21	EPA 6020B	
Magnesium	7.80	0.0564	"	"	"	"	"	"	
Sodium	33.7	0.0564	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **07/08/21 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.20	0.00100	units	1	BEG0265	07/15/21	07/15/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/08/21 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.7		%	1	BEG0237	07/14/21	07/15/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/08/21 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.477	0.0100	mmhos/cm	1	BEG0204	07/13/21	07/13/21	EPA 120.1	

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

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.



Foundation Energy
 1801 Broadway, Suite 1500
 Denver CO, 80202

Project: Cure 11-33

Project Number: [none]
 Project Manager: Alyssa Beard

Reported:
 07/16/21 16:48

PW Tank
2107124-02 (Soil)

Summit Scientific

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

Date Sampled: **07/08/21 14:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.29		pH Units	1	BEG0202	07/13/21	07/13/21	EPA 9045D	

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.



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Cure 11-33
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
07/16/21 16:48

Separator
2107124-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/08/21 14:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEG0207	07/13/21	07/14/21	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: **07/08/21 14:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.3 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		111 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/08/21 14:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEG0209	07/13/21	07/15/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **07/08/21 14:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		95.8 %	30-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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.



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Cure 11-33
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
07/16/21 16:48

Separator
2107124-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/08/21 14:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0714	0.0100	mg/L	1	BEG0179	07/12/21	07/13/21	EPA 6020B	

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

Date Sampled: **07/08/21 14:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	32.0	0.0542	mg/L dry	1	BEG0180	07/12/21	07/14/21	EPA 6020B	
Magnesium	6.24	0.0542	"	"	"	"	"	"	
Sodium	19.3	0.0542	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **07/08/21 14:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.817	0.00100	units	1	BEG0265	07/15/21	07/15/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/08/21 14:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.3		%	1	BEG0237	07/14/21	07/15/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/08/21 14:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.313	0.0100	mmhos/cm	1	BEG0204	07/13/21	07/13/21	EPA 120.1	

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

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.



Foundation Energy
 1801 Broadway, Suite 1500
 Denver CO, 80202

Project: Cure 11-33
 Project Number: [none]
 Project Manager: Alyssa Beard

Reported:
 07/16/21 16:48

Separator
2107124-03 (Soil)

Summit Scientific

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

Date Sampled: **07/08/21 14:21**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.38		pH Units	1	BEG0202	07/13/21	07/13/21	EPA 9045D	

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.



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Cure 11-33
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
07/16/21 16:48

Meter Shed
2107124-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/08/21 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEG0207	07/13/21	07/14/21	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: **07/08/21 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/08/21 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEG0209	07/13/21	07/15/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **07/08/21 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		90.2 %	30-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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.



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Cure 11-33

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
07/16/21 16:48

Meter Shed
2107124-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/08/21 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0264	0.0100	mg/L	1	BEG0179	07/12/21	07/13/21	EPA 6020B	

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

Date Sampled: **07/08/21 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	23.4	0.0562	mg/L dry	1	BEG0180	07/12/21	07/14/21	EPA 6020B	
Magnesium	4.82	0.0562	"	"	"	"	"	"	
Sodium	8.61	0.0562	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **07/08/21 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.423	0.00100	units	1	BEG0265	07/15/21	07/15/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/08/21 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.0		%	1	BEG0237	07/14/21	07/15/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/08/21 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.210	0.0100	mmhos/cm	1	BEG0204	07/13/21	07/13/21	EPA 120.1	

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

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.



Foundation Energy
 1801 Broadway, Suite 1500
 Denver CO, 80202

Project: Cure 11-33
 Project Number: [none]
 Project Manager: Alyssa Beard

Reported:
 07/16/21 16:48

Meter Shed
2107124-04 (Soil)

Summit Scientific

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

Date Sampled: **07/08/21 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.36		pH Units	1	BEG0202	07/13/21	07/13/21	EPA 9045D	

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.



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Cure 11-33

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
07/16/21 16:48

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEG0207 - EPA 5030 Soil MS

Blank (BEG0207-BLK1)

Prepared & Analyzed: 07/13/21

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0386		"	0.0400		96.4	23-173			
<i>Surrogate: Toluene-d8</i>	0.0417		"	0.0400		104	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0426		"	0.0400		106	21-167			

LCS (BEG0207-BS1)

Prepared & Analyzed: 07/13/21

Benzene	0.0928	0.0020	mg/kg	0.100		92.8	70-130			
Toluene	0.104	0.0050	"	0.100		104	70-130			
Ethylbenzene	0.0958	0.0050	"	0.100		95.8	70-130			
m,p-Xylene	0.185	0.010	"	0.200		92.7	70-130			
o-Xylene	0.0903	0.0050	"	0.100		90.3	70-130			
1,2,4-Trimethylbenzene	0.0932	0.0050	"	0.100		93.2	70-130			
1,3,5-Trimethylbenzene	0.0944	0.0050	"	0.100		94.4	70-130			
Naphthalene	0.0886	0.0038	"	0.100		88.6	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0389		"	0.0400		97.2	23-173			
<i>Surrogate: Toluene-d8</i>	0.0419		"	0.0400		105	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0412		"	0.0400		103	21-167			

Matrix Spike (BEG0207-MS1)

Source: 2107093-01

Prepared: 07/13/21 Analyzed: 07/14/21

Benzene	0.0892	0.0020	mg/kg	0.100	0.00426	84.9	70-130			
Toluene	0.101	0.0050	"	0.100	0.00387	96.8	70-130			
Ethylbenzene	0.0910	0.0050	"	0.100	ND	91.0	70-130			
m,p-Xylene	0.178	0.010	"	0.200	0.00576	86.4	70-130			
o-Xylene	0.0872	0.0050	"	0.100	ND	87.2	70-130			
1,2,4-Trimethylbenzene	0.0921	0.0050	"	0.100	ND	92.1	70-130			
1,3,5-Trimethylbenzene	0.0921	0.0050	"	0.100	ND	92.1	70-130			
Naphthalene	0.0972	0.0038	"	0.100	0.00588	91.3	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0398		"	0.0400		99.6	23-173			
<i>Surrogate: Toluene-d8</i>	0.0420		"	0.0400		105	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0422		"	0.0400		106	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.



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Cure 11-33

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
07/16/21 16:48

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

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

Batch BEG0207 - EPA 5030 Soil MS

Matrix Spike Dup (BEG0207-MSD1)	Source: 2107093-01			Prepared: 07/13/21 Analyzed: 07/14/21						
Benzene	0.0914	0.0020	mg/kg	0.100	0.00426	87.2	70-130	2.46	30	
Toluene	0.105	0.0050	"	0.100	0.00387	101	70-130	3.92	30	
Ethylbenzene	0.0954	0.0050	"	0.100	ND	95.4	70-130	4.67	30	
m,p-Xylene	0.183	0.010	"	0.200	0.00576	88.7	70-130	2.62	30	
o-Xylene	0.0906	0.0050	"	0.100	ND	90.6	70-130	3.81	30	
1,2,4-Trimethylbenzene	0.0938	0.0050	"	0.100	ND	93.8	70-130	1.78	30	
1,3,5-Trimethylbenzene	0.0947	0.0050	"	0.100	ND	94.7	70-130	2.76	30	
Naphthalene	0.0922	0.0038	"	0.100	0.00588	86.3	70-130	5.32	30	
Surrogate: 1,2-Dichloroethane-d4	0.0386		"	0.0400		96.5	23-173			
Surrogate: Toluene-d8	0.0419		"	0.0400		105	20-170			
Surrogate: 4-Bromofluorobenzene	0.0418		"	0.0400		104	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.



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Cure 11-33
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
07/16/21 16:48

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BEG0209 - EPA 3550A

Blank (BEG0209-BLK1)

Prepared: 07/13/21 Analyzed: 07/14/21

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

LCS (BEG0209-BS1)

Prepared: 07/13/21 Analyzed: 07/14/21

C10-C28 (DRO)	466	50	mg/kg	500	93.1	70-130				
---------------	-----	----	-------	-----	------	--------	--	--	--	--

Matrix Spike (BEG0209-MS1)

Source: 2107093-01

Prepared: 07/13/21 Analyzed: 07/14/21

C10-C28 (DRO)	466	50	mg/kg	500	14.1	90.5	70-130			
---------------	-----	----	-------	-----	------	------	--------	--	--	--

Matrix Spike Dup (BEG0209-MSD1)

Source: 2107093-01

Prepared: 07/13/21 Analyzed: 07/14/21

C10-C28 (DRO)	457	50	mg/kg	500	14.1	88.5	70-130	2.10	20	
---------------	-----	----	-------	-----	------	------	--------	------	----	--

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.





Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Cure 11-33

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
07/16/21 16:48

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

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

Batch BEG0179 - EPA 3050B

Blank (BEG0179-BLK1)

Prepared: 07/12/21 Analyzed: 07/13/21

Boron ND 0.0100 mg/L

LCS (BEG0179-BS1)

Prepared: 07/12/21 Analyzed: 07/13/21

Boron 5.47 0.0100 mg/L 5.00 109 80-120

Duplicate (BEG0179-DUP1)

Source: 2107086-01

Prepared: 07/12/21 Analyzed: 07/13/21

Boron 0.134 0.0100 mg/L 0.173 25.8 20 QR-04

Matrix Spike (BEG0179-MS1)

Source: 2107086-01

Prepared: 07/12/21 Analyzed: 07/13/21

Boron 5.16 0.0100 mg/L 5.00 0.173 99.8 75-125

Matrix Spike Dup (BEG0179-MSD1)

Source: 2107086-01

Prepared: 07/12/21 Analyzed: 07/13/21

Boron 5.77 0.0100 mg/L 5.00 0.173 112 75-125 11.2 25

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.



Foundation Energy
 1801 Broadway, Suite 1500
 Denver CO, 80202

Project: Cure 11-33
 Project Number: [none]
 Project Manager: Alyssa Beard

Reported:
 07/16/21 16:48

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

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

Batch BEG0180 - General Preparation

Blank (BEG0180-BLK1)

Prepared: 07/12/21 Analyzed: 07/14/21

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

LCS (BEG0180-BS1)

Prepared: 07/12/21 Analyzed: 07/14/21

Calcium	5.06	0.0500	mg/L wet	5.00		101	70-130			
Magnesium	5.70	0.0500	"	5.00		114	70-130			
Sodium	4.75	0.0500	"	5.00		95.0	70-130			

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.



Foundation Energy
 1801 Broadway, Suite 1500
 Denver CO, 80202

Project: Cure 11-33
 Project Number: [none]
 Project Manager: Alyssa Beard

Reported:
 07/16/21 16:48

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

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

Batch BEG0237 - General Preparation

Duplicate (BEG0237-DUP1)	Source: 2107124-01			Prepared: 07/14/21 Analyzed: 07/15/21	
% Solids	91.6		%	91.8	0.214 20

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.



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Cure 11-33

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
07/16/21 16:48

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

Summit Scientific

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

Batch BEG0204 - General Preparation

Blank (BEG0204-BLK1)

Prepared & Analyzed: 07/13/21

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BEG0204-BS1)

Prepared & Analyzed: 07/13/21

Specific Conductance (EC) 0.138 0.0100 mmhos/cm 0.150 92.3 90-110

Duplicate (BEG0204-DUP1)

Source: 2107124-01

Prepared & Analyzed: 07/13/21

Specific Conductance (EC) 0.496 0.0100 mmhos/cm 0.497 0.141 20

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.



Foundation Energy
 1801 Broadway, Suite 1500
 Denver CO, 80202

Project: Cure 11-33

Project Number: [none]
 Project Manager: Alyssa Beard

Reported:
 07/16/21 16:48

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

Summit Scientific

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

Batch BEG0202 - General Preparation

LCS (BEG0202-BS1)

Prepared & Analyzed: 07/13/21

pH 9.33 pH Units 9.21 101 95-105

Duplicate (BEG0202-DUP1)

Source: 2107124-01

Prepared & Analyzed: 07/13/21

pH 8.91 pH Units 8.92 0.112 20

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.



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Cure 11-33

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
07/16/21 16:48

Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- 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