

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

October 10, 2016

Colby Sterling
Talon/LPE
1811 E Mulberry
Ft Collins, CO 80524
RE: Razor 12F

Enclosed are the results of analyses for samples received by Summit Scientific on 10/06/16 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 'Paul Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury
President



Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 12F

Project Number: 701530.064.03
Project Manager: Colby Sterling

Reported:
10/10/16 07:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
UL-10@3'	1610059-01	Soil	10/06/16 12:20	10/06/16 16:30
UL-11@3'	1610059-02	Soil	10/06/16 12:22	10/06/16 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.



Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 12F

Project Number: 701530.064.03
Project Manager: Colby Sterling

Reported:
10/10/16 07:48

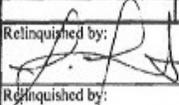
Summit Scientific

1610059

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

Page 1 of 1

Client: Talon/LPE - Bill Whiting Petroleum	Project Manager: Colby Sterling
Address: 1811 East Mulberry	E-Mail: csterling@talonlpe.com
City/State/Zip: Fort Collins, CO 80525	Project Name: Razer 12F
Phone: 970-818-5330 Fax:	Project Number: 701530.064.03
Sampler Name: Jennifer Galles / Jason Leverton	

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)	pH				
UL-10 @ 3'	10/6/2016	1220	1		x											
UL-11 @ 3'	10/6/2016	1222	1		x			x								
Relinquished by: 	Date/Time: 10-6-16 16:30	Received by: 	Date/Time: 10-6-16 16:30	Turn Around Time (Check)				Notes:								
				Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/>												
				24 Hours <input checked="" type="checkbox"/> Standard <input type="checkbox"/>												
				48 Hours <input type="checkbox"/>												
Relinquished by: 	Date/Time: 10-6-16 17:30	Received by:	Date/Time:	Sample Integrity:												
				Temperature Upon Receipt: 21.3												
				Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>												

www.s2scientific.com





Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 12F

Project Number: 701530.064.03
Project Manager: Colby Sterling

Reported:
10/10/16 07:48

Sample Receipt Checklist

S2 Work Order: 1610059
 Client: Talon Client Project ID: Razor 12F
 Shipped Via: H.O. on ice Airbill #: _____
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Matrix (check all that apply): Air Soil/Solid Water Other: _____
 (Describe)

Cooler ID					
Temp (°C)	<u>21.3</u>				

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature just above 0°C to ≤ 6°C ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
NOTE: If samples are delivered the same day of sampling, this requirement is waived provided that there is evidence that cooling has begun.				
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
If custody seals are present, are they intact ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present?	<input checked="" type="checkbox"/>			
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
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⁾ ?			<input checked="" type="checkbox"/>	
Record the pH in Comments.				
If dissolved metals are requested, were samples field filtered?			<input checked="" type="checkbox"/>	
Additional Comments (if any):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

Muri P.
Custodian Printed Name

MS 10-6-16
Signature or Initials of Custodian

17:40
Date/Time



Talon/LPE
 1811 E Mulberry
 Ft Collins CO, 80524

Project: Razor 12F
 Project Number: 701530.064.03
 Project Manager: Colby Sterling

Reported:
 10/10/16 07:48

UL-10@3'
1610059-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/06/16 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.46	0.100	pH Units	1	1610083	10/07/16	10/07/16	EPA 9045	

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.



Talon/LPE
 1811 E Mulberry
 Ft Collins CO, 80524

Project: Razor 12F
 Project Number: 701530.064.03
 Project Manager: Colby Sterling

Reported:
 10/10/16 07:48

UL-11@3'
1610059-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/06/16 12:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.93	0.100	pH Units	1	1610083	10/07/16	10/07/16	EPA 9045	

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.



Talon/LPE
 1811 E Mulberry
 Ft Collins CO, 80524

Project: Razor 12F
 Project Number: 701530.064.03
 Project Manager: Colby Sterling

Reported:
 10/10/16 07:48

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

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

Batch 1610083 - General Preparation

LCS (1610083-BS1)

Prepared & Analyzed: 10/07/16

pH	8.06	0.100	pH Units	8.00	101	95-105
----	------	-------	----------	------	-----	--------

Duplicate (1610083-DUP1)

Source: 1609188-08

Prepared & Analyzed: 10/07/16

pH	8.37	0.100	pH Units	8.07	3.65	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.



Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 12F

Project Number: 701530.064.03
Project Manager: Colby Sterling

Reported:
10/10/16 07:48

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