

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

January 24, 2018

Colby Sterling
Talon/LPE
1811 E Mulberry
Ft Collins, CO 80524
RE: Razor 25CPB

Enclosed are the results of analyses for samples received by Summit Scientific on 01/15/18 10:45. 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



Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25CPB
Project Number: 701530.089.01
Project Manager: Colby Sterling

Reported:
01/24/18 12:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-1	1801158-01	Soil	01/15/18 11:00	01/15/18 10:45

Summit Scientific

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A handwritten signature in black ink, appearing to be 'MSM'.

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Ft Collins CO, 80524

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1801158

741 Corporate Circle Suite I ♦ Golden, Colorado 80401

303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client: Talon/LPE - Bill Whiting

Address: 1811 East Mulberry

City/State/Zip: Fort Collins, CO 80525

Phone: 970-818-5330 Fax:

Sampler Name: Jason Leverton

Project Manager: Colby Sterling

E-Mail: csterling@talonlpe.com

Project Name: Razor 250

Project Number:	701530.089.01
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[illegible]

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1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25CPB
Project Number: 701530.089.01
Project Manager: Colby Sterling

Reported:
01/24/18 12:18

S2 Work Order: 1801158 **Sample Receipt Checklist**
Client: Talon Client Project ID: Razor 250
Shipped Via: P.V. Airbill #: _____
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Matrix (check all that apply): Air ☒ Soil/Solid Water Other: _____
(Describe)

Cooler ID					
Temp (°C)	3.2				

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"/>			
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			<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Record the pH in Comments.			<input checked="" type="checkbox"/>	
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

RA 1-15-18
Signature or Initials of Custodian

18:00
Date/Time



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Ft Collins CO, 80524

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SP-1
1801158-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/15/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1801168	01/16/18	01/16/18	8015M	

Date Sampled: **01/15/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		61.0 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/15/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1801167	01/16/18	01/16/18	EPA 8260B	
Toluene	0.0062	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.012	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/15/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.2 %	21-167		"	"	"	"	

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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 1801168 - EPA 3550A

Blank (1801168-BLK1)

Prepared & Analyzed: 01/16/18

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 15.6 " 12.5 125 30-150

LCS (1801168-BS1)

Prepared & Analyzed: 01/16/18

C10-C28 (DRO) 558 50 mg/kg 499 112 73-134

Surrogate: o-Terphenyl 17.6 " 12.5 140 30-150

Matrix Spike (1801168-MS1)

Source: 1801158-01

Prepared & Analyzed: 01/16/18

C10-C28 (DRO) 502 50 mg/kg 499 16.0 97.4 50-148

Surrogate: o-Terphenyl 6.91 " 12.5 55.3 30-150

Matrix Spike Dup (1801168-MSD1)

Source: 1801158-01

Prepared & Analyzed: 01/16/18

C10-C28 (DRO) 553 50 mg/kg 499 16.0 108 50-148 9.71 20

Surrogate: o-Terphenyl 18.5 " 12.5 148 30-150

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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 1801167 - EPA 5030 Soil MS

Blank (1801167-BLK1)

Prepared & Analyzed: 01/16/18

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0328		"	0.0400		82.0	23-173			
Surrogate: Toluene-d8	0.0384		"	0.0400		95.9	20-170			
Surrogate: 4-Bromofluorobenzene	0.0385		"	0.0400		96.3	21-167			

LCS (1801167-BS1)

Prepared & Analyzed: 01/16/18

Benzene	0.110	0.0020	mg/kg	0.100		110	58-130			
Toluene	0.113	0.0050	"	0.100		113	61-134			
Ethylbenzene	0.128	0.0050	"	0.0992		129	74-139			
m,p-Xylene	0.243	0.010	"	0.200		122	73-137			
o-Xylene	0.120	0.0050	"	0.0980		123	73-141			
Xylenes (total)	0.363	0.0050	"				30-150			
Gasoline Range Hydrocarbons	3.11	0.50	"				30-150			
Surrogate: 1,2-Dichloroethane-d4	0.0362		"	0.0400		90.5	23-173			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.6	20-170			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.0	21-167			

Matrix Spike (1801167-MS1)

Source: 1801158-01

Prepared & Analyzed: 01/16/18

Benzene	0.110	0.0020	mg/kg	0.100	ND	110	30-131			
Toluene	0.119	0.0050	"	0.100	0.00618	112	30-134			
Ethylbenzene	0.127	0.0050	"	0.0992	0.00354	125	22-153			
m,p-Xylene	0.244	0.010	"	0.200	0.00744	118	10-159			
o-Xylene	0.123	0.0050	"	0.0980	0.00468	120	31-151			
Xylenes (total)	0.366	0.0050	"		0.0121		30-150			
Gasoline Range Hydrocarbons	3.45	0.50	"		0.276		30-150			
Surrogate: 1,2-Dichloroethane-d4	0.0396		"	0.0400		99.0	23-173			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.6	20-170			
Surrogate: 4-Bromofluorobenzene	0.0395		"	0.0400		98.8	21-167			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
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Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1801167 - EPA 5030 Soil MS

Matrix Spike Dup (1801167-MSD1)	Source: 1801158-01			Prepared & Analyzed: 01/16/18						
Benzene	0.111	0.0020	mg/kg	0.100	ND	111	30-131	0.896	34	
Toluene	0.120	0.0050	"	0.100	0.00618	114	30-134	1.23	30	
Ethylbenzene	0.130	0.0050	"	0.0992	0.00354	128	22-153	2.12	24	
m,p-Xylene	0.250	0.010	"	0.200	0.00744	122	10-159	2.56	68	
o-Xylene	0.125	0.0050	"	0.0980	0.00468	123	31-151	1.89	38	
Xylenes (total)	0.375	0.0050	"		0.0121		30-150	2.34	20	
Gasoline Range Hydrocarbons	3.39	0.50	"		0.276		30-150	1.60	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0392</i>		<i>"</i>	<i>0.0400</i>		<i>98.0</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0400</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0398</i>		<i>"</i>	<i>0.0400</i>		<i>99.4</i>	<i>21-167</i>			

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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