

# Summit Scientific

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

September 27, 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 09/23/16 15:38. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury  
President



Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Razor 12F

Project Number: [none701530.064.01]  
Project Manager: Colby Sterling

**Reported:**  
09/27/16 06:57

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
UL-1	1609160-01	Soil	09/23/16 12:59	09/23/16 15:38
UL-2	1609160-02	Soil	09/23/16 13:03	09/23/16 15:38
UL-3	1609160-03	Soil	09/23/16 13:07	09/23/16 15:38
UL-4	1609160-04	Soil	09/23/16 13:11	09/23/16 15:38
P-1	1609160-05	Soil	09/23/16 13:15	09/23/16 15:38
P-2	1609160-06	Soil	09/23/16 13:19	09/23/16 15:38
P-3	1609160-07	Soil	09/23/16 13:23	09/23/16 15:38

Summit Scientific

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Razor 12F

Project Number: [none701530.064.01]  
Project Manager: Colby Sterling

Reported:  
09/27/16 06:57

# Summit Scientific 1609160

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 80524	Project Name: Razor 12F
Phone: 970-818-5330 Fax:	Project Number: 701530.064.03
Sampler Name: Colby Sterling	

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix			Analyze For:					Special Instructions	
				HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	BTEX	GRO/DRO	EC	SAR		pH
UL-1	9/23/2016	1259	1		x												
UL-2	9/23/2016	1303	1		x												
UL-3	9/23/2016	1307	1		x												
UL-4	9/23/2016	1311	1		x												
P-1	9/23/2016	1315	1		x												
P-2	9/23/2016	1319	1		x												
P-3	9/23/2016	1323	1		x												
Relinquished by: <i>[Signature]</i> 9-23-16 15:39				Date/Time:	Received by: <i>[Signature]</i> 9-23-16 15:38	Date/Time:	Turn Around Time (Check)					Notes:					
Relinquished by: <i>[Signature]</i> 9-23-16 18:00				Date/Time:	Received by: <i>[Signature]</i> 9-23-16 18:00	Date/Time:	Same Day	<input type="checkbox"/>	72 Hours	<input type="checkbox"/>							
Relinquished by:				Date/Time:	Received in Lab by:	Date/Time:	24 Hours	<input checked="" type="checkbox"/>	Standard	<input type="checkbox"/>							
				Date/Time:		Date/Time:	48 Hours	<input type="checkbox"/>									
				Date/Time:		Date/Time:	Sample Integrity:										
				Date/Time:		Date/Time:	Temperature Upon Receipt:	12.3									
				Date/Time:		Date/Time:	Intact:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>								

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Summit Scientific

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S<sub>2</sub>

Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Razor 12F

Project Number: [none701530.064.01]  
Project Manager: Colby Sterling

Reported:  
09/27/16 06:57

Sample Receipt Checklist

S2 Work Order: 1609160

Client: Talon Client Project ID: Razor 12F

Shipped Via: HD (UPS, FedEx, Hand Delivered, Pick-up, etc.) Airbill #: \_\_\_\_\_

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

Cooler ID					
Temp (°C)	123°C				

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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact <sup>(1)</sup> ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	<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) <sup>(1)</sup> ?	<input type="checkbox"/>	<input type="checkbox"/>	<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 <sup>(1)</sup> ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Record the pH in Comments.				
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Mindy Mach  
Custodian Printed Name

[Signature]  
Signature or initials of Custodian

9/26/16 12:09  
Date/Time

[Signature]



Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Razor 12F  
Project Number: [none701530.064.01]  
Project Manager: Colby Sterling

Reported:  
09/27/16 06:57

**UL-1**  
**1609160-01 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/23/16 12:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1609194	09/26/16	09/26/16	8015M	

Date Sampled: **09/23/16 12:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		86.7 %	30-150		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/23/16 12:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1609196	09/26/16	09/26/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/23/16 12:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	21-167		"	"	"	"	

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/23/16 12:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Razor 12F  
Project Number: [none701530.064.01]  
Project Manager: Colby Sterling

**Reported:**  
09/27/16 06:57

**UL-1**  
**1609160-01 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	443	8.65	mg/kg dry	1	1609190	09/26/16	09/26/16	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	167	4.32	"	"	"	"	"	"	
Sodium	1100	4.32	"	"	"	"	"	"	

Date Sampled: 09/23/16 12:59

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	11.3		units	"	1609203	09/26/16	09/26/16	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: 09/23/16 12:59

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.64	0.0100	mmhos/cm	1	1609193	09/26/16	09/26/16	SM 2510B	

Date Sampled: 09/23/16 12:59

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.83	0.100	pH Units	"	1609192	09/26/16	"	EPA 9045	

Date Sampled: 09/23/16 12:59

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.2		%	"	1609191	"	09/26/16	% calculation	

Summit Scientific

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Razor 12F  
Project Number: [none701530.064.01]  
Project Manager: Colby Sterling

**Reported:**  
09/27/16 06:57

**UL-2**  
**1609160-02 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/23/16 13:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1609194	09/26/16	09/26/16	8015M	

Date Sampled: **09/23/16 13:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		86.3 %	30-150		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/23/16 13:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1609196	09/26/16	09/26/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/23/16 13:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	21-167		"	"	"	"	

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/23/16 13:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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1811 E Mulberry  
Ft Collins CO, 80524

Project: Razor 12F

Project Number: [none701530.064.01]  
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**Reported:**  
09/27/16 06:57

**UL-2**  
**1609160-02 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	556	8.98	mg/kg dry	1	1609190	09/26/16	09/26/16	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	146	4.49	"	"	"	"	"	"	
Sodium	995	4.49	"	"	"	"	"	"	

Date Sampled: **09/23/16 13:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.71		units	"	1609203	09/26/16	09/26/16	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/23/16 13:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.88	0.0100	mmhos/cm	1	1609193	09/26/16	09/26/16	SM 2510B	

Date Sampled: **09/23/16 13:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.55	0.100	pH Units	"	1609192	09/26/16	"	EPA 9045	

Date Sampled: **09/23/16 13:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.8		%	"	1609191	"	09/26/16	% calculation	

Summit Scientific

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Razor 12F  
Project Number: [none701530.064.01]  
Project Manager: Colby Sterling

**Reported:**  
09/27/16 06:57

**UL-3**  
**1609160-03 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/23/16 13:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1609194	09/26/16	09/26/16	8015M	

Date Sampled: **09/23/16 13:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		87.5 %	30-150		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/23/16 13:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1609196	09/26/16	09/26/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/23/16 13:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		120 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	21-167		"	"	"	"	

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/23/16 13:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Razor 12F

Project Number: [none701530.064.01]  
Project Manager: Colby Sterling

**Reported:**  
09/27/16 06:57

**UL-3**  
**1609160-03 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	775	9.28	mg/kg dry	1	1609190	09/26/16	09/26/16	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	320	4.64	"	"	"	"	"	"	
Sodium	1650	4.64	"	"	"	"	"	"	

Date Sampled: **09/23/16 13:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	12.6		units	"	1609203	09/26/16	09/26/16	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/23/16 13:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.16	0.0100	mmhos/cm	1	1609193	09/26/16	09/26/16	SM 2510B	

Date Sampled: **09/23/16 13:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.94	0.100	pH Units	"	1609192	09/26/16	"	EPA 9045	

Date Sampled: **09/23/16 13:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.9		%	"	1609191	"	09/26/16	% calculation	

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Razor 12F  
Project Number: [none701530.064.01]  
Project Manager: Colby Sterling

**Reported:**  
09/27/16 06:57

**UL-4**  
**1609160-04 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/23/16 13:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1609194	09/26/16	09/26/16	8015M	

Date Sampled: **09/23/16 13:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		84.9 %	30-150		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/23/16 13:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1609196	09/26/16	09/26/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/23/16 13:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	21-167		"	"	"	"	

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/23/16 13:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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1811 E Mulberry  
Ft Collins CO, 80524

Project: Razor 12F

Project Number: [none701530.064.01]  
Project Manager: Colby Sterling

**Reported:**  
09/27/16 06:57

**UL-4**  
**1609160-04 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	645	10.6	mg/kg dry	1	1609190	09/26/16	09/26/16	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	161	5.30	"	"	"	"	"	"	
Sodium	777	5.30	"	"	"	"	"	"	

Date Sampled: **09/23/16 13:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.09		units	"	1609203	09/26/16	09/26/16	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/23/16 13:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.02	0.0100	mmhos/cm	1	1609193	09/26/16	09/26/16	SM 2510B	

Date Sampled: **09/23/16 13:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.62	0.100	pH Units	"	1609192	09/26/16	"	EPA 9045	

Date Sampled: **09/23/16 13:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.3		%	"	1609191	"	09/26/16	% calculation	

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Razor 12F  
Project Number: [none701530.064.01]  
Project Manager: Colby Sterling

**Reported:**  
09/27/16 06:57

**P-1**  
**1609160-05 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/23/16 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1609194	09/26/16	09/26/16	8015M	

Date Sampled: **09/23/16 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		83.0 %	30-150		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/23/16 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1609196	09/26/16	09/26/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/23/16 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane- <i>d</i> 4		103 %	23-173		"	"	"	"	
Surrogate: Toluene- <i>d</i> 8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	21-167		"	"	"	"	

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/23/16 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Razor 12F

Project Number: [none701530.064.01]  
Project Manager: Colby Sterling

**Reported:**  
09/27/16 06:57

**P-1**  
**1609160-05 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1430	9.21	mg/kg dry	1	1609190	09/26/16	09/26/16	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	273	4.61	"	"	"	"	"	"	
Sodium	78.8	4.61	"	"	"	"	"	"	

Date Sampled: **09/23/16 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.500		units	"	1609203	09/26/16	09/26/16	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/23/16 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.848	0.0100	mmhos/cm	1	1609193	09/26/16	09/26/16	SM 2510B	

Date Sampled: **09/23/16 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.26	0.100	pH Units	"	1609192	09/26/16	"	EPA 9045	

Date Sampled: **09/23/16 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.5		%	"	1609191	"	09/26/16	% calculation	

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Razor 12F  
Project Number: [none701530.064.01]  
Project Manager: Colby Sterling

**Reported:**  
09/27/16 06:57

**P-2**  
**1609160-06 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/23/16 13:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1609194	09/26/16	09/26/16	8015M	

Date Sampled: **09/23/16 13:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		85.1 %	30-150		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/23/16 13:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1609196	09/26/16	09/26/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/23/16 13:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	21-167		"	"	"	"	

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/23/16 13:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Razor 12F

Project Number: [none701530.064.01]  
Project Manager: Colby Sterling

**Reported:**  
09/27/16 06:57

**P-2**

**1609160-06 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	2090	9.53	mg/kg dry	1	1609190	09/26/16	09/26/16	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	194	4.76	"	"	"	"	"	"	
Sodium	2700	4.76	"	"	"	"	"	"	

Date Sampled: **09/23/16 13:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	15.1		units	"	1609203	09/26/16	09/26/16	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/23/16 13:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.33	0.0100	mmhos/cm	1	1609193	09/26/16	09/26/16	SM 2510B	

Date Sampled: **09/23/16 13:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.25	0.100	pH Units	"	1609192	09/26/16	"	EPA 9045	

Date Sampled: **09/23/16 13:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.5		%	"	1609191	"	09/26/16	% calculation	

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Razor 12F  
Project Number: [none701530.064.01]  
Project Manager: Colby Sterling

**Reported:**  
09/27/16 06:57

**P-3**  
**1609160-07 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/23/16 13:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1609194	09/26/16	09/26/16	8015M	

Date Sampled: **09/23/16 13:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		85.0 %	30-150		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/23/16 13:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1609196	09/26/16	09/26/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/23/16 13:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	21-167		"	"	"	"	

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/23/16 13:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Razor 12F

Project Number: [none701530.064.01]  
Project Manager: Colby Sterling

**Reported:**  
09/27/16 06:57

**P-3**

**1609160-07 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1630	10.8	mg/kg dry	1	1609190	09/26/16	09/26/16	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	239	5.40	"	"	"	"	"	"	
Sodium	1560	5.40	"	"	"	"	"	"	

Date Sampled: **09/23/16 13:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.55		units	"	1609203	09/26/16	09/26/16	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/23/16 13:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.00	0.0100	mmhos/cm	1	1609193	09/26/16	09/26/16	SM 2510B	

Date Sampled: **09/23/16 13:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.63	0.100	pH Units	"	1609192	09/26/16	"	EPA 9045	

Date Sampled: **09/23/16 13:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.5		%	"	1609191	"	09/26/16	% calculation	

Summit Scientific

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Razor 12F

Project Number: [none701530.064.01]  
Project Manager: Colby Sterling

**Reported:**  
09/27/16 06:57

**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 1609194 - EPA 3550A**

**Blank (1609194-BLK1)**

Prepared & Analyzed: 09/26/16

C10-C28 (DRO)	ND	50	mg/kg								
<i>Surrogate: o-Terphenyl</i>	<i>11.1</i>		"	<i>12.5</i>		<i>88.8</i>	<i>30-150</i>				

**LCS (1609194-BS1)**

Prepared & Analyzed: 09/26/16

C10-C28 (DRO)	406	50	mg/kg	499		81.3	73-134				
<i>Surrogate: o-Terphenyl</i>	<i>12.5</i>		"	<i>12.5</i>		<i>100</i>	<i>30-150</i>				

**Matrix Spike (1609194-MS1)**

Source: 1609159-01

Prepared & Analyzed: 09/26/16

C10-C28 (DRO)	1800	50	mg/kg	499	1400	80.3	50-148				
<i>Surrogate: o-Terphenyl</i>	<i>13.8</i>		"	<i>12.5</i>		<i>111</i>	<i>30-150</i>				

**Matrix Spike Dup (1609194-MSD1)**

Source: 1609159-01

Prepared & Analyzed: 09/26/16

C10-C28 (DRO)	1630	50	mg/kg	499	1400	46.4	50-148	9.87	20		QM-07
<i>Surrogate: o-Terphenyl</i>	<i>14.2</i>		"	<i>12.5</i>		<i>114</i>	<i>30-150</i>				

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Razor 12F  
Project Number: [none701530.064.01]  
Project Manager: Colby Sterling

Reported:  
09/27/16 06:57

**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 1609196 - EPA 5030 Soil MS**

**Blank (1609196-BLK1)**

Prepared & Analyzed: 09/26/16

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0414</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0396</i>		<i>"</i>	<i>0.0400</i>		<i>99.1</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0406</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>21-167</i>			

**LCS (1609196-BS1)**

Prepared & Analyzed: 09/26/16

Benzene	0.108	0.0020	mg/kg	0.100		108	58-130			
Toluene	0.0964	0.0050	"	0.100		96.4	61-134			
Ethylbenzene	0.111	0.0050	"	0.0992		112	74-139			
m,p-Xylene	0.212	0.010	"	0.200		106	73-137			
o-Xylene	0.107	0.0050	"	0.0980		110	73-141			
Xylenes (total)	0.320	0.0050	"				30-150			
Gasoline Range Hydrocarbons	2.08	0.50	"				30-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0423</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0413</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0391</i>		<i>"</i>	<i>0.0400</i>		<i>97.6</i>	<i>21-167</i>			

**Matrix Spike (1609196-MS1)**

Source: 1609159-02

Prepared & Analyzed: 09/26/16

Benzene	0.104	0.0020	mg/kg	0.0982		106	30-131			
Toluene	0.0926	0.0050	"	0.0982		94.3	30-134			
Ethylbenzene	0.107	0.0050	"	0.0974		109	22-153			
m,p-Xylene	0.202	0.010	"	0.196		103	10-159			
o-Xylene	0.104	0.0050	"	0.0963		108	31-151			
Xylenes (total)	0.306	0.0050	"				30-150			
Gasoline Range Hydrocarbons	1.99	0.50	"				30-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0418</i>		<i>"</i>	<i>0.0393</i>		<i>106</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0406</i>		<i>"</i>	<i>0.0393</i>		<i>103</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0384</i>		<i>"</i>	<i>0.0393</i>		<i>97.8</i>	<i>21-167</i>			

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Razor 12F  
Project Number: [none701530.064.01]  
Project Manager: Colby Sterling

**Reported:**  
09/27/16 06:57

**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 1609196 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (1609196-MSD1)</b>	<b>Source: 1609159-02</b>			<b>Prepared &amp; Analyzed: 09/26/16</b>						
Benzene	0.0988	0.0020	mg/kg	0.0982	101	30-131	5.15	34		
Toluene	0.0872	0.0050	"	0.0982	88.8	30-134	6.00	30		
Ethylbenzene	0.101	0.0050	"	0.0974	104	22-153	5.28	24		
m,p-Xylene	0.194	0.010	"	0.196	98.9	10-159	4.21	68		
o-Xylene	0.0986	0.0050	"	0.0963	102	31-151	5.55	38		
Xylenes (total)	0.292	0.0050	"			30-150	4.67	20		
Gasoline Range Hydrocarbons	1.93	0.50	"			30-150	3.19	20		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0408</i>		<i>"</i>	<i>0.0393</i>	<i>104</i>	<i>23-173</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0403</i>		<i>"</i>	<i>0.0393</i>	<i>103</i>	<i>20-170</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0386</i>		<i>"</i>	<i>0.0393</i>	<i>98.2</i>	<i>21-167</i>				

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Razor 12F  
Project Number: [none701530.064.01]  
Project Manager: Colby Sterling

Reported:  
09/27/16 06:57

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis - Quality Control**  
**Summit Scientific**

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

**Batch 1609190 - General Preparation**

**Blank (1609190-BLK1)**

Prepared & Analyzed: 09/26/16

Calcium	ND	10.0	mg/kg wet							
Magnesium	ND	5.00	"							
Sodium	ND	5.00	"							

**LCS (1609190-BS1)**

Prepared & Analyzed: 09/26/16

Calcium	523	10.0	mg/kg wet	500	105	82.9-118				
Magnesium	537	5.00	"	500	107	77.1-123				
Sodium	565	5.00	"	500	113	71-129				

**Duplicate (1609190-DUP1)**

Source: 1609160-01

Prepared & Analyzed: 09/26/16

Calcium	471	8.65	mg/kg dry	443			6.14	200		
Magnesium	165	4.32	"	167			1.57	200		
Sodium	1130	4.32	"	1100			2.21	200		

**Matrix Spike (1609190-MS1)**

Source: 1609160-01

Prepared & Analyzed: 09/26/16

Calcium	771	8.65	mg/kg dry	432	443	75.7	75-125			
Magnesium	668	4.32	"	432	167	116	75-125			
Sodium	1630	4.32	"	432	1100	123	75-125			

**Matrix Spike Dup (1609190-MSD1)**

Source: 1609160-01

Prepared & Analyzed: 09/26/16

Calcium	821	8.65	mg/kg dry	432	443	87.2	75-125	6.27	25	
Magnesium	629	4.32	"	432	167	107	75-125	6.03	25	
Sodium	1550	4.32	"	432	1100	105	75-125	5.00	25	

Summit Scientific

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Razor 12F

Project Number: [none701530.064.01]  
Project Manager: Colby Sterling

Reported:  
09/27/16 06:57

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

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

**Batch 1609191 - General Preparation**

<b>Duplicate (1609191-DUP1)</b>	<b>Source: 1609160-01</b>			Prepared & Analyzed: 09/26/16						
% Solids	76.8		%		93.2				19.3	20

**Batch 1609192 - General Preparation**

<b>LCS (1609192-BS1)</b>				Prepared & Analyzed: 09/26/16						
pH	8.06	0.100	pH Units	8.00		101	95-105			
<b>Duplicate (1609192-DUP1)</b>	<b>Source: 1609160-01</b>			Prepared & Analyzed: 09/26/16						
pH	8.86	0.100	pH Units		8.83				0.339	20

**Batch 1609193 - General Preparation**

<b>Blank (1609193-BLK1)</b>				Prepared & Analyzed: 09/26/16						
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
<b>LCS (1609193-BS1)</b>				Prepared & Analyzed: 09/26/16						
Specific Conductance (EC)	0.501	0.0100	mmhos/cm	0.500		100	90-110			
<b>Duplicate (1609193-DUP1)</b>	<b>Source: 1609160-01</b>			Prepared & Analyzed: 09/26/16						
Specific Conductance (EC)	2.82	0.0100	mmhos/cm		2.64				6.48	20

Summit Scientific

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Razor 12F

Project Number: [none701530.064.01]  
Project Manager: Colby Sterling

**Reported:**  
09/27/16 06:57

### Notes and Definitions

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