

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 12, 2019

Jason Leverton

Talon/LPE

1811 East Mulberry

Fort Collins, CO 80525

RE: Bears 5-30 Tank Battery

Enclosed are the results of analyses for samples received by Summit Scientific on 03/11/19 10:30. 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 For Ben Shrewsbury

Laboratory Manager



Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Bears 5-30 Tank Battery

Project Number: 702297.006.01
Project Manager: Jason Leverton

Reported:
03/12/19 14:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-01@3'	1903078-01	Soil	03/11/19 08:55	03/11/19 10:30
SS-02@3'	1903078-02	Soil	03/11/19 09:00	03/11/19 10:30
SS-03@3'	1903078-03	Soil	03/11/19 09:05	03/11/19 10:30
SS-04@3'	1903078-04	Soil	03/11/19 09:10	03/11/19 10:30
BH-01@6	1903078-05	Soil	03/11/19 09:15	03/11/19 10:30

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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.

1903078

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

Page 1 of 1

Client: Talon LPE
Address: 1811 E Mulberry St
City/State/Zip: Itasca Co 80524
Phone: 970 618 5330 Fax: 806 467 0622
Sampler Name: Jason Leventon

Project Manager: Jason Leventon
E-Mail: jleventon@TalonLPE.com
Project Name: Bears 5-30 Tank battery
Project Number: 702897.000001

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)	BTEX	DRO	GRO	EC	SAR	pH	
SS-01 @ 3'	3.11.19	8:55	1			X			X				X	X	X	X	X	
SS-02 @ 3'		9:00	1															
SS-03 @ 3'		9:05	1															
SS-04 @ 3'		9:10	1															
BH-01 @ G		9:15	1															
Relinquished by: [Signature]	Date/Time: 3.11.19 10:30	Received by: [Signature]	Date/Time: 3.11.19 10:30	Turn Around Time (Check) 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"/>				Notes:										
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: 14.3 Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>														
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:															

Sample Receipt Checklist

S2 Work Order _____

Client: Talon LPE Client Project ID: Bears 5-30 Tank Battery

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

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

Temp (°C)	14.3
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Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.				
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 type="checkbox"/>	<input checked="" 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⁾ ?	<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 ⁽¹⁾ ?	<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):

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

LP
Custodian Printed Name or Initials

[Signature]
Signature of Custodian

3.11.19 1105
Date/Time



Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Bears 5-30 Tank Battery

Project Number: 702297.006.01

Project Manager: Jason Leverton

Reported:
03/12/19 14:49

SS-01@3'
1903078-01 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/11/19 08:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	1903120	03/11/19	03/12/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/11/19 08:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		84.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.8 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/11/19 08:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	1903110	03/11/19	03/12/19	EPA 8015M	

Date Sampled: **03/11/19 08:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		107 %	30-150		"	"	"	"	

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

Date Sampled: **03/11/19 08:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	12400	11.5	mg/kg dry	1	1903121	03/11/19	03/11/19	EPA 6020B	
Magnesium	713	5.74	"	"	"	"	"	"	

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Project: Bears 5-30 Tank Battery
Project Number: 702297.006.01
Project Manager: Jason Leverton

Reported:
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SS-01@3'
1903078-01 (Soil)

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

Sodium	237	5.74	mg/kg dry	1	1903121	03/11/19	03/11/19	EPA 6020B
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Calculated Analysis

Date Sampled: **03/11/19 08:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.560	0.100	units	1	1903135	03/12/19	03/12/19	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/11/19 08:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.1		%	1	1903131	03/12/19	03/12/19	Calculation	
pH	8.88		pH Units	"	1903133	03/12/19	03/12/19	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **03/11/19 08:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.716	0.0100	mmhos/cm	1	1903132	03/12/19	03/12/19	EPA 120.1	

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Project: Bears 5-30 Tank Battery

Project Number: 702297.006.01

Project Manager: Jason Leverton

Reported:
03/12/19 14:49

SS-02@3'
1903078-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/11/19 09:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1903120	03/11/19	03/12/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	18	0.50	"	"	"	"	"	"	

Date Sampled: **03/11/19 09:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		86.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		129 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/11/19 09:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	2500	50	mg/kg	1	1903110	03/11/19	03/12/19	EPA 8015M	

Date Sampled: **03/11/19 09:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		128 %	30-150		"	"	"	"	

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

Date Sampled: **03/11/19 09:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	2880	11.8	mg/kg dry	1	1903121	03/11/19	03/11/19	EPA 6020B	
Magnesium	148	5.89	"	"	"	"	"	"	
Sodium	44.5	5.89	"	"	"	"	"	"	

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SS-02@3'
1903078-02 (Soil)

Summit Scientific

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

Calculated Analysis

Date Sampled: **03/11/19 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.219	0.100	units	1	1903135	03/12/19	03/12/19	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/11/19 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.8		%	1	1903131	03/12/19	03/12/19	Calculation	
pH	8.10		pH Units	"	1903133	03/12/19	03/12/19	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **03/11/19 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.691	0.0100	mmhos/cm	1	1903132	03/12/19	03/12/19	EPA 120.1	

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Project: Bears 5-30 Tank Battery

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Project Manager: Jason Leverton

Reported:
03/12/19 14:49

SS-03@3'
1903078-03 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/11/19 09:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1903120	03/11/19	03/12/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	2.1	0.50	"	"	"	"	"	"	

Date Sampled: **03/11/19 09:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		86.7 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/11/19 09:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1903110	03/11/19	03/12/19	EPA 8015M	

Date Sampled: **03/11/19 09:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		105 %	30-150		"	"	"	"	

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

Date Sampled: **03/11/19 09:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	899	11.2	mg/kg dry	1	1903121	03/11/19	03/11/19	EPA 6020B	
Magnesium	384	5.62	"	"	"	"	"	"	
Sodium	71.9	5.62	"	"	"	"	"	"	

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Reported:
03/12/19 14:49

SS-03@3'
1903078-03 (Soil)

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

Calculated Analysis

Date Sampled: **03/11/19 09:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.506	0.100	units	1	1903135	03/12/19	03/12/19	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/11/19 09:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.9		%	1	1903131	03/12/19	03/12/19	Calculation	
pH	8.16		pH Units	"	1903133	03/12/19	03/12/19	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **03/11/19 09:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.732	0.0100	mmhos/cm	1	1903132	03/12/19	03/12/19	EPA 120.1	

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1811 East Mulberry
Fort Collins CO, 80525

Project: Bears 5-30 Tank Battery

Project Number: 702297.006.01

Project Manager: Jason Leverton

Reported:
03/12/19 14:49

SS-04@3'
1903078-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/11/19 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1903120	03/11/19	03/12/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/11/19 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		88.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.3 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/11/19 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1903110	03/11/19	03/12/19	EPA 8015M	

Date Sampled: **03/11/19 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		112 %	30-150		"	"	"	"	

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

Date Sampled: **03/11/19 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	409	10.9	mg/kg dry	1	1903121	03/11/19	03/12/19	EPA 6020B	
Magnesium	112	5.47	"	"	"	"	"	"	
Sodium	182	5.47	"	"	"	"	"	"	

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SS-04@3'
1903078-04 (Soil)

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

Calculated Analysis

Date Sampled: **03/11/19 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.06	0.100	units	1	1903135	03/12/19	03/12/19	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/11/19 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.5		%	1	1903131	03/12/19	03/12/19	Calculation	
pH	8.21		pH Units	"	1903133	03/12/19	03/12/19	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **03/11/19 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.544	0.0100	mmhos/cm	1	1903132	03/12/19	03/12/19	EPA 120.1	

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Project Number: 702297.006.01

Project Manager: Jason Leverton

Reported:
03/12/19 14:49

BH-01@6
1903078-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/11/19 09:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1903120	03/11/19	03/12/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/11/19 09:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		87.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/11/19 09:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1903110	03/11/19	03/12/19	EPA 8015M	

Date Sampled: **03/11/19 09:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		102 %	30-150		"	"	"	"	

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

Date Sampled: **03/11/19 09:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	672	11.0	mg/kg dry	1	1903121	03/11/19	03/11/19	EPA 6020B	
Magnesium	120	5.50	"	"	"	"	"	"	
Sodium	74.8	5.50	"	"	"	"	"	"	

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Project: Bears 5-30 Tank Battery
Project Number: 702297.006.01
Project Manager: Jason Leverton

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03/12/19 14:49

BH-01@6
1903078-05 (Soil)

Summit Scientific

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

Calculated Analysis

Date Sampled: **03/11/19 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.698	0.100	units	1	1903135	03/12/19	03/12/19	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/11/19 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.9		%	1	1903131	03/12/19	03/12/19	Calculation	
pH	8.57		pH Units	"	1903133	03/12/19	03/12/19	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **03/11/19 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.811	0.0100	mmhos/cm	1	1903132	03/12/19	03/12/19	EPA 120.1	

Summit Scientific

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Bears 5-30 Tank Battery

Project Number: 702297.006.01

Project Manager: Jason Leverton

Reported:
03/12/19 14:49

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 1903120 - EPA 5030 Soil MS

Blank (1903120-BLK1)

Prepared: 03/11/19 Analyzed: 03/12/19

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0338		"	0.0400		84.4	23-173			
Surrogate: Toluene-d8	0.0407		"	0.0400		102	20-170			
Surrogate: 4-Bromofluorobenzene	0.0399		"	0.0400		99.7	21-167			

LCS (1903120-BS1)

Prepared: 03/11/19 Analyzed: 03/12/19

Benzene	0.105	0.0020	mg/kg	0.100		105	70-130			
Toluene	0.110	0.0050	"	0.100		110	70-130			
Ethylbenzene	0.109	0.0050	"	0.100		109	70-130			
m,p-Xylene	0.216	0.010	"	0.200		108	70-130			
o-Xylene	0.111	0.0050	"	0.100		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0319		"	0.0400		79.7	23-173			
Surrogate: Toluene-d8	0.0409		"	0.0400		102	20-170			
Surrogate: 4-Bromofluorobenzene	0.0390		"	0.0400		97.6	21-167			

Matrix Spike (1903120-MS1)

Source: 1903078-01

Prepared: 03/11/19 Analyzed: 03/12/19

Benzene	0.0927	0.0020	mg/kg	0.100	ND	92.7	70-130			
Toluene	0.0944	0.0050	"	0.100	ND	94.4	70-130			
Ethylbenzene	0.0942	0.0050	"	0.100	ND	94.2	70-130			
m,p-Xylene	0.185	0.010	"	0.200	ND	92.3	70-130			
o-Xylene	0.0939	0.0050	"	0.100	ND	93.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0340		"	0.0400		85.1	23-173			
Surrogate: Toluene-d8	0.0395		"	0.0400		98.8	20-170			
Surrogate: 4-Bromofluorobenzene	0.0381		"	0.0400		95.3	21-167			

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Bears 5-30 Tank Battery

Project Number: 702297.006.01

Project Manager: Jason Leverton

Reported:
03/12/19 14:49

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 1903120 - EPA 5030 Soil MS

Matrix Spike Dup (1903120-MSD1)		Source: 1903078-01			Prepared: 03/11/19 Analyzed: 03/12/19					
Benzene	0.0880	0.0020	mg/kg	0.100	ND	88.0	70-130	5.11	30	
Toluene	0.0917	0.0050	"	0.100	ND	91.7	70-130	2.87	30	
Ethylbenzene	0.0895	0.0050	"	0.100	ND	89.5	70-130	5.16	30	
m,p-Xylene	0.176	0.010	"	0.200	ND	88.2	70-130	4.56	30	
o-Xylene	0.0903	0.0050	"	0.100	ND	90.3	70-130	3.91	30	
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	0.0325		"	0.0400		81.2	23-173			
Surrogate: Toluene-d8	0.0403		"	0.0400		101	20-170			
Surrogate: 4-Bromofluorobenzene	0.0376		"	0.0400		94.0	21-167			

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Project: Bears 5-30 Tank Battery

Project Number: 702297.006.01
Project Manager: Jason Leverton

Reported:
03/12/19 14:49

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1903110 - EPA 3550A

Blank (1903110-BLK1)

Prepared: 03/11/19 Analyzed: 03/12/19

C10-C28 (DRO) ND 50 mg/kg

LCS (1903110-BS1)

Prepared: 03/11/19 Analyzed: 03/12/19

C10-C28 (DRO) 430 50 mg/kg 500 86.1 70-130

Matrix Spike (1903110-MS1)

Source: 1903074-01

Prepared: 03/11/19 Analyzed: 03/12/19

C10-C28 (DRO) 408 50 mg/kg 500 17.4 78.2 70-130

Matrix Spike Dup (1903110-MSD1)

Source: 1903074-01

Prepared: 03/11/19 Analyzed: 03/12/19

C10-C28 (DRO) 411 50 mg/kg 500 17.4 78.7 70-130 0.666 20

Summit Scientific

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Bears 5-30 Tank Battery

Project Number: 702297.006.01

Project Manager: Jason Leverton

Reported:
03/12/19 14:49

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

Summit Scientific

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

Batch 1903121 - General Preparation

Blank (1903121-BLK1)

Prepared & Analyzed: 03/11/19

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

LCS (1903121-BS1)

Prepared & Analyzed: 03/11/19

Calcium	558	10.0	mg/kg wet	500	112	70-130
Magnesium	561	5.00	"	500	112	70-130
Sodium	552	5.00	"	500	110	70-130

Duplicate (1903121-DUP1)

Source: 1903062-04

Prepared & Analyzed: 03/11/19

Calcium	3560	12.6	mg/kg dry	3380	5.09	20
Magnesium	557	6.32	"	531	4.79	20
Sodium	17.6	6.32	"	18.8	6.56	20

Matrix Spike (1903121-MS1)

Source: 1903062-04

Prepared & Analyzed: 03/11/19

Calcium	3860	12.6	mg/kg dry	632	3380	76.3	70-130
Magnesium	1160	6.32	"	632	531	100	70-130
Sodium	669	6.32	"	632	18.8	103	70-130

Matrix Spike Dup (1903121-MSD1)

Source: 1903062-04

Prepared & Analyzed: 03/11/19

Calcium	3880	12.6	mg/kg dry	632	3380	79.5	70-130	0.527	25
Magnesium	1120	6.32	"	632	531	93.4	70-130	3.72	25
Sodium	661	6.32	"	632	18.8	102	70-130	1.24	25

Summit Scientific

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Bears 5-30 Tank Battery

Project Number: 702297.006.01

Project Manager: Jason Leverton

Reported:
03/12/19 14:49

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 1903131 - General Preparation

Duplicate (1903131-DUP1)

Source: 1903062-04

Prepared & Analyzed: 03/12/19

% Solids	78.7	%		79.1		0.454	20
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Batch 1903133 - General Preparation

LCS (1903133-BS1)

Prepared & Analyzed: 03/12/19

pH	9.39	pH Units	9.23	102	95-105
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Duplicate (1903133-DUP1)

Source: 1903062-04

Prepared & Analyzed: 03/12/19

pH	8.17	pH Units	7.96	2.60	20
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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Bears 5-30 Tank Battery

Project Number: 702297.006.01

Project Manager: Jason Leverton

Reported:
03/12/19 14:49

Specific Conductance by EPA Method 120.1 - Quality Control

Summit Scientific

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

Batch 1903132 - General Preparation

Blank (1903132-BLK1)

Prepared & Analyzed: 03/12/19

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (1903132-BS1)

Prepared & Analyzed: 03/12/19

Specific Conductance (EC) 0.748 0.0100 mmhos/cm 0.750 99.7 90-110

Duplicate (1903132-DUP1)

Source: 1903062-04

Prepared & Analyzed: 03/12/19

Specific Conductance (EC) 0.711 0.0100 mmhos/cm 0.631 11.9 20

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1811 East Mulberry
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Project: Bears 5-30 Tank Battery

Project Number: 702297.006.01
Project Manager: Jason Leverton

Reported:
03/12/19 14:49

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