

# Summit Scientific

---

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

September 01, 2015

Carter Peace  
Tasman Geosciences  
6899 Pecos Street  
Denver, CO 80221  
RE: Hill 6-1

Enclosed are the results of analyses for samples received by Summit Scientific on 08/25/15 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury  
President



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
09/01/15 10:42

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@1	1508187-01	Soil	08/24/15 00:00	08/25/15 17:00
SS02@2	1508187-02	Soil	08/24/15 00:00	08/25/15 17:00
SS03@4	1508187-03	Soil	08/24/15 00:00	08/25/15 17:00

---

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.*



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]  
Project Manager: Carter Peace

Reported:  
09/01/15 10:42

Summit Scientific

1508187

741 Corporate Circle, Suite J&K Golden, Colorado 80401  
303-277-9310 303-374-5933

Client: TASMAN / FOUNDATION (INVOICING) Project Manager: C. PEACE Page 1 of 1  
Address: \_\_\_\_\_ E-Mail: \_\_\_\_\_  
City/State/Zip: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Project Name: HILL 6-1  
Sampler Name: CJP Project Number: \_\_\_\_\_

Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested					Special Instructions
				HCl	HNO3	None	Other (Specify)	Groundwater	Soil	Air-Canister #	Other (Specify)	XRF	DR	PH	
1 SS01 A 1	8/24/15										X	X	X	X	
2 SS02 A 2						X		X			X	X	X	X	
3 SS03 A 4								X			X	X	X	X	

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Turn Around Time (Check)  
 Same Day \_\_\_\_\_ 72 hours \_\_\_\_\_  
 24 hours \_\_\_\_\_ Standard X  
 48 hours \_\_\_\_\_  
 Sample Integrity:  
 Temperature Upon Receipt: 0.7°C  
 Intact:  Yes  No  
 Notes: on ice

Relinquished by: [Signature] Date/Time: 08/25/15 1700 Received by: [Signature] Date/Time: 8/25/15 1700  
NA 8/25/15 1755 Raina a Ferguson [www.s2scientific.com](http://www.s2scientific.com) 8/25/15 17:00

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.

[Signature]



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]  
Project Manager: Carter Peace

Reported:  
09/01/15 10:42

**SS01@1**  
**1508187-01 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/24/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1508206	08/26/15	08/27/15	8015M	

Date Sampled: **08/24/15 00:00**

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

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

Date Sampled: **08/24/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.10	mg/kg	1	1508216	08/27/15	08/28/15	EPA 8260B	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **08/24/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		112 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		95.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

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

Date Sampled: **08/24/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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.



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]  
Project Manager: Carter Peace

Reported:  
09/01/15 10:42

**SS01@1**  
**1508187-01 (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	1670	10.4	mg/kg dry	1	1508203	08/26/15	08/26/15	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	722	5.22	"	"	"	"	"	"	
Sodium	582	5.22	"	"	"	"	"	"	

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.00		units	"	1508225	08/28/15	08/28/15	"	

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

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.74	0.0100	mmhos/cm	1	1508197	08/26/15	08/26/15	SM 2510B	

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.93	0.100	pH Units	"	1508196	08/26/15	08/26/15	EPA 9045	

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.3		%	"	1508198	08/26/15	08/27/15	% calculation	

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.



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]  
Project Manager: Carter Peace

Reported:  
09/01/15 10:42

**SS02@2**  
**1508187-02 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	380	50	mg/kg	1	1508206	08/26/15	08/27/15	8015M	

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		111 %	30-150		"	"	"	"	

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

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.10	mg/kg	1	1508216	08/27/15	08/28/15	EPA 8260B	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	52	50	"	"	"	"	"	"	

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		112 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		132 %	21-167		"	"	"	"	

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

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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.



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]  
Project Manager: Carter Peace

Reported:  
09/01/15 10:42

**SS02@2**  
**1508187-02 (Soil)**

**Summit Scientific**

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

Analyte	Result	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	3390	mg/kg dry	1	1508203	08/26/15	08/26/15	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	553	6.33 "	"	"	"	"	"	
Sodium	1580	6.33 "	"	"	"	"	"	

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.63		units	"	1508225	08/28/15	08/28/15	"	

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

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.19	0.0100	mmhos/cm	1	1508197	08/26/15	08/26/15	SM 2510B	

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.54	0.100	pH Units	"	1508196	08/26/15	08/26/15	EPA 9045	

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.0		%	"	1508198	08/26/15	08/27/15	% calculation	

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.



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]  
Project Manager: Carter Peace

Reported:  
09/01/15 10:42

**SS03@4**  
**1508187-03 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/24/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1508206	08/26/15	08/27/15	8015M	

Date Sampled: **08/24/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		108 %	30-150		"	"	"	"	

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

Date Sampled: **08/24/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.10	mg/kg	1	1508216	08/27/15	08/28/15	EPA 8260B	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **08/24/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		95.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	21-167		"	"	"	"	

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

Date Sampled: **08/24/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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.



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]  
Project Manager: Carter Peace

Reported:  
09/01/15 10:42

**SS03@4**  
**1508187-03 (Soil)**

**Summit Scientific**

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

Analyte	Result	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	3330	11.9 mg/kg dry	1	1508203	08/26/15	08/26/15	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	352	5.94 "	"	"	"	"	"	
Sodium	810	5.94 "	"	"	"	"	"	

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.57		units	"	1508225	08/28/15	08/28/15	"	

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

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.75	0.0100	mmhos/cm	1	1508197	08/26/15	08/26/15	SM 2510B	

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.89	0.100	pH Units	"	1508196	08/26/15	08/26/15	EPA 9045	

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.2		%	"	1508198	08/26/15	08/27/15	% calculation	

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.



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
09/01/15 10:42

**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 1508206 - EPA 3550A**

**Blank (1508206-BLK1)**

Prepared & Analyzed: 08/26/15

C10-C28 (DRO)	ND	50	mg/kg								
<i>Surrogate: o-Terphenyl</i>	14.0		"	12.2		115	30-150				

**LCS (1508206-BS1)**

Prepared & Analyzed: 08/26/15

C10-C28 (DRO)	478	50	mg/kg	499		95.8	73-134				
<i>Surrogate: o-Terphenyl</i>	13.1		"	12.2		107	30-150				

**Matrix Spike (1508206-MS1)**

Source: 1508185-01

Prepared & Analyzed: 08/26/15

C10-C28 (DRO)	495	50	mg/kg	482	ND	103	50-148				
<i>Surrogate: o-Terphenyl</i>	12.7		"	11.8		108	30-150				

**Matrix Spike Dup (1508206-MSD1)**

Source: 1508185-01

Prepared & Analyzed: 08/26/15

C10-C28 (DRO)	493	50	mg/kg	491	ND	100	50-148	0.405	13		
<i>Surrogate: o-Terphenyl</i>	13.1		"	12.0		109	30-150				

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.*



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]  
Project Manager: Carter Peace

Reported:  
09/01/15 10:42

**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 1508216 - EPA 5030 Soil MS**

**Blank (1508216-BLK1)**

Prepared: 08/27/15 Analyzed: 08/28/15

Benzene	ND	0.10	mg/kg							
Toluene	ND	10	"							
Ethylbenzene	ND	10	"							
Xylenes (total)	ND	10	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0420		"	0.0396		106	23-173			
Surrogate: Toluene-d8	0.0388		"	0.0400		96.9	20-170			
Surrogate: 4-Bromofluorobenzene	0.0410		"	0.0400		103	21-167			

**LCS (1508216-BS1)**

Prepared: 08/27/15 Analyzed: 08/28/15

Benzene	0.105	0.10	mg/kg	0.100		105	58-130			
Toluene	0.0976	10	"	0.100		97.6	61-134			
Ethylbenzene	0.104	10	"	0.0992		104	74-139			
m,p-Xylene	0.207	10	"	0.200		103	73-137			
o-Xylene	0.110	10	"	0.0984		112	73-141			
Surrogate: 1,2-Dichloroethane-d4	0.0400		"	0.0396		101	23-173			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	20-170			
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400		97.7	21-167			

**Matrix Spike (1508216-MS1)**

Source: 1508185-01

Prepared: 08/27/15 Analyzed: 08/28/15

Benzene	0.105	0.10	mg/kg	0.0960	ND	109	30-131			
Toluene	0.0947	10	"	0.0960	ND	98.7	30-134			
Ethylbenzene	0.104	10	"	0.0952	ND	109	22-153			
m,p-Xylene	0.208	10	"	0.192	ND	109	10-159			
o-Xylene	0.107	10	"	0.0944	ND	113	31-151			
Surrogate: 1,2-Dichloroethane-d4	0.0398		"	0.0380		105	23-173			
Surrogate: Toluene-d8	0.0381		"	0.0384		99.2	20-170			
Surrogate: 4-Bromofluorobenzene	0.0383		"	0.0384		99.9	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.



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]  
Project Manager: Carter Peace

Reported:  
09/01/15 10:42

**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 1508216 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (1508216-MSD1)</b>	<b>Source: 1508185-01</b>			Prepared: 08/27/15	Analyzed: 08/28/15					
Benzene	0.105	0.10	mg/kg	0.0965	ND	109	30-131	0.111	34	
Toluene	0.0951	10	"	0.0965	ND	98.5	30-134	0.456	30	
Ethylbenzene	0.105	10	"	0.0958	ND	110	22-153	1.57	24	
m,p-Xylene	0.212	10	"	0.193	ND	110	10-159	2.06	68	
o-Xylene	0.112	10	"	0.0950	ND	118	31-151	4.45	38	
Surrogate: 1,2-Dichloroethane-d4	0.0401		"	0.0382		105	23-173			
Surrogate: Toluene-d8	0.0372		"	0.0386		96.4	20-170			
Surrogate: 4-Bromofluorobenzene	0.0386		"	0.0386		100	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.*



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]  
Project Manager: Carter Peace

Reported:  
09/01/15 10:42

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

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

**Batch 1508203 - General Preparation**

**Blank (1508203-BLK1)**

Prepared & Analyzed: 08/26/15

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

**LCS (1508203-BS1)**

Prepared & Analyzed: 08/26/15

Calcium	548	10.0	mg/kg wet	500	110	82.9-118		
Magnesium	510	5.00	"	500	102	77.1-123		
Sodium	519	5.00	"	500	104	71-129		

**Duplicate (1508203-DUP1)**

Source: 1508185-01

Prepared & Analyzed: 08/26/15

Calcium	1150	11.1	mg/kg dry	1080			6.68	200
Magnesium	353	5.54	"	367			4.05	200
Sodium	873	5.54	"	949			8.34	200

**Matrix Spike (1508203-MS1)**

Source: 1508185-01

Prepared & Analyzed: 08/26/15

Calcium	1640	11.1	mg/kg dry	554	1080	101	75-125	
Magnesium	893	5.54	"	554	367	94.9	75-125	
Sodium	1400	5.54	"	554	949	81.6	75-125	

**Matrix Spike Dup (1508203-MSD1)**

Source: 1508185-01

Prepared & Analyzed: 08/26/15

Calcium	1690	11.1	mg/kg dry	554	1080	111	75-125	3.24	25
Magnesium	919	5.54	"	554	367	99.6	75-125	2.87	25
Sodium	1560	5.54	"	554	949	111	75-125	10.9	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.



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
09/01/15 10:42

**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 1508196 - General Preparation**

<b>LCS (1508196-BS1)</b>					Prepared & Analyzed: 08/26/15					
pH	7.98	0.100	pH Units	8.00	99.8	95-105				
<b>Duplicate (1508196-DUP1)</b>					Source: 1508185-01 Prepared & Analyzed: 08/26/15					
pH	8.93	0.100	pH Units	8.95	0.224	20				

**Batch 1508197 - General Preparation**

<b>Blank (1508197-BLK1)</b>					Prepared & Analyzed: 08/26/15					
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
<b>LCS (1508197-BS1)</b>					Prepared & Analyzed: 08/26/15					
Specific Conductance (EC)	500	0.0100	mmhos/cm	500	100	90-110				
<b>Duplicate (1508197-DUP1)</b>					Source: 1508185-01 Prepared & Analyzed: 08/26/15					
Specific Conductance (EC)	1.61	0.0100	mmhos/cm	1.73	7.13	20				

**Batch 1508198 - General Preparation**

<b>Duplicate (1508198-DUP1)</b>					Source: 1508185-01 Prepared: 08/26/15 Analyzed: 08/27/15					
% Solids	90.1		%	90.3	0.171	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.*



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
09/01/15 10:42

### 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

---

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.*

# Summit Scientific

---

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

October 07, 2015

Carter Peace  
Tasman Geosciences  
6899 Pecos Street  
Denver, CO 80221  
RE: Hill 6-1

Enclosed are the results of analyses for samples received by Summit Scientific on 09/30/15 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read "Michelle Clements". The signature is fluid and cursive, with a prominent initial "M" and a long, sweeping underline.

Michelle Clements For Paul Shrewsbury  
President



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
10/07/15 14:21

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS04@2'	1509275-01	Soil	09/30/15 00:00	09/30/15 17:00
SS05@1'	1509275-02	Soil	09/30/15 00:00	09/30/15 17:00

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.*



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]  
Project Manager: Carter Peace

Reported:  
10/07/15 14:21

# Summit Scientific

1509275

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

Page 1 of 1

Client: TASMAN / FOUNDATION (INVOLVING)  
Address: \_\_\_\_\_  
City/State/Zip: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
Sampler Name: CSP

Project Manager: C. PEACE  
E-Mail: \_\_\_\_\_  
Project Name: Hill 6-1  
Project Number: \_\_\_\_\_

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)						
SS0402	9/30/15		1			X						X	8015 710				
SS0501	9/30/15		1			X		X				X	8200 657X				
Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time (Check)				Notes:									
				Same Day <input type="checkbox"/> 72 Hours <input checked="" type="checkbox"/>													
				24 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/>													
				48 Hours <input type="checkbox"/>													
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:													
<u>[Signature]</u>	9/30/15 1700	<u>[Signature]</u>	9/30/15 1700	Temperature Upon Receipt: <u>5.9°C</u>													
				Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													

[Signature] 9/30/15 1730 [Signature] 9-30 1730  
www.s2scientific.com

Summit Scientific

[Signature]

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.



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]  
Project Manager: Carter Peace

Reported:  
10/07/15 14:21

**SS04@2'**  
**1509275-01 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>270</b>	50	mg/kg	1	1509288	10/01/15	10/02/15	8015M	

Date Sampled: **09/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		101 %	30-150		"	"	"	"	

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

Date Sampled: **09/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.10	mg/kg	1	1510004	10/01/15	10/01/15	EPA 8260B	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **09/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		126 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		94.6 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		94.0 %	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.*



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]  
Project Manager: Carter Peace

Reported:  
10/07/15 14:21

**SS05@1'**  
**1509275-02 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>4300</b>	50	mg/kg	1	1509288	10/01/15	10/02/15	8015M	

Date Sampled: **09/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		392 %	30-150		"	"	"	"	S-02

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

Date Sampled: **09/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>0.12</b>	0.10	mg/kg	1	1510004	10/01/15	10/02/15	EPA 8260B	
<b>Toluene</b>	<b>10</b>	10	"	"	"	"	10/01/15	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>23</b>	10	"	"	"	"	10/02/15	"	
<b>Gasoline Range Hydrocarbons</b>	<b>2300</b>	50	"	"	"	"	10/01/15	"	

Date Sampled: **09/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.0 %	23-173		"	"	10/02/15	"	
<i>Surrogate: Toluene-d8</i>		117 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		121 %	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.*



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
10/07/15 14:21

**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 1509288 - EPA 3550A**

**Blank (1509288-BLK1)**

Prepared: 10/01/15 Analyzed: 10/02/15

C10-C28 (DRO)	ND	50	mg/kg								
<i>Surrogate: o-Terphenyl</i>	12.4		"	12.2		101	30-150				

**LCS (1509288-BS1)**

Prepared: 10/01/15 Analyzed: 10/02/15

C10-C28 (DRO)	433	50	mg/kg	499		86.7	73-134				
<i>Surrogate: o-Terphenyl</i>	12.4		"	12.2		102	30-150				

**Matrix Spike (1509288-MS1)**

**Source: 1509124-04**

Prepared: 10/01/15 Analyzed: 10/02/15

C10-C28 (DRO)	441	50	mg/kg	466	21.8	89.9	50-148				
<i>Surrogate: o-Terphenyl</i>	11.5		"	11.4		101	30-150				

**Matrix Spike Dup (1509288-MSD1)**

**Source: 1509124-04**

Prepared: 10/01/15 Analyzed: 10/02/15

C10-C28 (DRO)	467	50	mg/kg	494	21.8	90.2	50-148	5.71	13		
<i>Surrogate: o-Terphenyl</i>	11.7		"	12.1		97.0	30-150				

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.*



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]  
Project Manager: Carter Peace

Reported:  
10/07/15 14:21

**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 1510004 - EPA 5030 Soil MS**

**Blank (1510004-BLK1)**

Prepared & Analyzed: 10/01/15

Benzene	ND	0.10	mg/kg							
Toluene	ND	10	"							
Ethylbenzene	ND	10	"							
Xylenes (total)	ND	10	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0419		"	0.0396		106	23-173			
Surrogate: Toluene-d8	0.0380		"	0.0400		95.0	20-170			
Surrogate: 4-Bromofluorobenzene	0.0370		"	0.0400		92.6	21-167			

**LCS (1510004-BS1)**

Prepared & Analyzed: 10/01/15

Benzene	0.0791	0.10	mg/kg	0.100		79.1	58-130			
Toluene	0.0823	10	"	0.100		82.3	61-134			
Ethylbenzene	0.107	10	"	0.0992		108	74-139			
m,p-Xylene	0.216	10	"	0.200		108	73-137			
o-Xylene	0.0995	10	"	0.0984		101	73-141			
Surrogate: 1,2-Dichloroethane-d4	0.0423		"	0.0396		107	23-173			
Surrogate: Toluene-d8	0.0377		"	0.0400		94.4	20-170			
Surrogate: 4-Bromofluorobenzene	0.0371		"	0.0400		92.7	21-167			

**Matrix Spike (1510004-MS1)**

Source: 1510001-01

Prepared & Analyzed: 10/01/15

Benzene	0.0745	0.10	mg/kg	0.0896	ND	83.1	30-131			
Toluene	0.0768	10	"	0.0896	ND	85.7	30-134			
Ethylbenzene	0.100	10	"	0.0889	ND	112	22-153			
m,p-Xylene	0.200	10	"	0.179	ND	112	10-159			
o-Xylene	0.0914	10	"	0.0882	ND	104	31-151			
Surrogate: 1,2-Dichloroethane-d4	0.0385		"	0.0355		108	23-173			
Surrogate: Toluene-d8	0.0343		"	0.0358		95.6	20-170			
Surrogate: 4-Bromofluorobenzene	0.0327		"	0.0358		91.2	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.



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]  
Project Manager: Carter Peace

Reported:  
10/07/15 14:21

**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 1510004 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (1510004-MSD1)</b>	<b>Source: 1510001-01</b>			<b>Prepared &amp; Analyzed: 10/01/15</b>						
Benzene	0.0798	0.10	mg/kg	0.0907	ND	88.0	30-131	6.94	34	
Toluene	0.0828	10	"	0.0907	ND	91.2	30-134	7.43	30	
Ethylbenzene	0.108	10	"	0.0900	ND	120	22-153	7.56	24	
m,p-Xylene	0.215	10	"	0.181	ND	119	10-159	6.93	68	
o-Xylene	0.0978	10	"	0.0893	ND	109	31-151	6.75	38	
Surrogate: 1,2-Dichloroethane-d4	0.0396		"	0.0359		110	23-173			
Surrogate: Toluene-d8	0.0345		"	0.0363		95.1	20-170			
Surrogate: 4-Bromofluorobenzene	0.0341		"	0.0363		93.9	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.*



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
10/07/15 14:21

### Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- 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

---

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.*

# Summit Scientific

---

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

October 25, 2015

Carter Peace  
Tasman Geosciences  
6899 Pecos Street  
Denver, CO 80221  
RE: Hill 6-1

Enclosed are the results of analyses for samples received by Summit Scientific on 10/23/15 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury  
President



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]  
Project Manager: Carter Peace

Reported:  
10/25/15 13:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS06@3	1510163-01	Soil	10/22/15 00:00	10/23/15 17:00

# Summit Scientific

1510163

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

Client: TASMAN/FOUNDATION (INVOICE)  
Address: \_\_\_\_\_  
City/State/Zip: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
Sampler Name: GSP

Page 1 of 1

Project Manager: C. PEACE  
E-Mail: \_\_\_\_\_  
Project Name: Hill 6-1  
Project Number: \_\_\_\_\_

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)					
5506@3	10/22/14					X			X				X	X		
Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time (Check)				Notes:								
				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"/>											
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:												
				Temperature Upon Receipt: <u>-30°C</u>												
Relinquished by:	Date/Time:	Received by:	Date/Time:	Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>												

www.s2scientific.com

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.



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]  
Project Manager: Carter Peace

Reported:  
10/25/15 13:24

**SS06@3**  
**1510163-01 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 10/22/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1510199	10/23/15	10/23/15	8015M	

Date Sampled: 10/22/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		104 %	30-150		"	"	"	"	

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

Date Sampled: 10/22/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.10	mg/kg	1	1510198	10/23/15	10/23/15	EPA 8260B	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: 10/22/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		119 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		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.



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
10/25/15 13:24

**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 1510199 - EPA 3550A**

**Blank (1510199-BLK1)**

Prepared & Analyzed: 10/23/15

C10-C28 (DRO)	ND	50	mg/kg								
<i>Surrogate: o-Terphenyl</i>	13.6		"	12.2		111	30-150				

**LCS (1510199-BS1)**

Prepared & Analyzed: 10/23/15

C10-C28 (DRO)	565	50	mg/kg	499		113	73-134				
<i>Surrogate: o-Terphenyl</i>	14.3		"	12.2		117	30-150				

**Matrix Spike (1510199-MS1)**

Source: 1510162-02

Prepared & Analyzed: 10/23/15

C10-C28 (DRO)	546	50	mg/kg	499	90.7	91.2	50-148				
<i>Surrogate: o-Terphenyl</i>	13.2		"	12.2		108	30-150				

**Matrix Spike Dup (1510199-MSD1)**

Source: 1510162-02

Prepared & Analyzed: 10/23/15

C10-C28 (DRO)	546	50	mg/kg	499	90.7	91.3	50-148	0.0676	13		
<i>Surrogate: o-Terphenyl</i>	13.0		"	12.2		107	30-150				

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.*



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]  
Project Manager: Carter Peace

Reported:  
10/25/15 13:24

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

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

**Batch 1510198 - EPA 5030 Soil MS**

**Blank (1510198-BLK1)**

Prepared & Analyzed: 10/23/15

Benzene	ND	0.10	mg/kg								
Toluene	ND	10	"								
Ethylbenzene	ND	10	"								
Xylenes (total)	ND	10	"								
Gasoline Range Hydrocarbons	ND	50	"								
Surrogate: 1,2-Dichloroethane-d4	0.0428		"	0.0396		108	23-173				
Surrogate: Toluene-d8	0.0404		"	0.0400		101	20-170				
Surrogate: 4-Bromofluorobenzene	0.0424		"	0.0400		106	21-167				

**LCS (1510198-BS1)**

Prepared & Analyzed: 10/23/15

Benzene	0.108	0.10	mg/kg	0.100		108	58-130				
Toluene	0.0982	10	"	0.100		98.2	61-134				
Ethylbenzene	0.114	10	"	0.0992		114	74-139				
m,p-Xylene	0.222	10	"	0.200		111	73-137				
o-Xylene	0.118	10	"	0.0984		120	73-141				
Surrogate: 1,2-Dichloroethane-d4	0.0428		"	0.0396		108	23-173				
Surrogate: Toluene-d8	0.0422		"	0.0400		105	20-170				
Surrogate: 4-Bromofluorobenzene	0.0432		"	0.0400		108	21-167				

**Matrix Spike (1510198-MS1)**

Source: 1510162-02

Prepared & Analyzed: 10/23/15

Benzene	0.112	0.10	mg/kg	0.100	ND	112	30-131				
Toluene	0.104	10	"	0.100	ND	104	30-134				
Ethylbenzene	0.121	10	"	0.0992	ND	122	22-153				
m,p-Xylene	0.260	10	"	0.200	0.0360	112	10-159				
o-Xylene	0.137	10	"	0.0984	0.0190	120	31-151				
Surrogate: 1,2-Dichloroethane-d4	0.0471		"	0.0396		119	23-173				
Surrogate: Toluene-d8	0.0422		"	0.0400		106	20-170				
Surrogate: 4-Bromofluorobenzene	0.0433		"	0.0400		108	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.



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
10/25/15 13:24

**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 1510198 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (1510198-MSD1)</b>	<b>Source: 1510162-02</b>			<b>Prepared &amp; Analyzed: 10/23/15</b>						
Benzene	0.114	0.10	mg/kg	0.100	ND	114	30-131	1.49	34	
Toluene	0.106	10	"	0.100	ND	106	30-134	1.28	30	
Ethylbenzene	0.123	10	"	0.0992	ND	124	22-153	1.99	24	
m,p-Xylene	0.273	10	"	0.200	0.0360	119	10-159	4.73	68	
o-Xylene	0.142	10	"	0.0984	0.0190	125	31-151	3.95	38	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0470</i>		<i>"</i>	<i>0.0396</i>		<i>119</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0419</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0424</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>	<i>21-167</i>			

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.*



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
10/25/15 13:24

### 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

---

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.*