

SS05@7'
 B - <0.0020 mg/kg
 T - <0.0050 mg/kg
 E - <0.0050 mg/kg
 X - <0.010 mg/kg
 TPH - <50 mg/kg
 N - <0.010 mg/kg

SS02@3'
 B - <0.0020 mg/kg
 T - <0.0050 mg/kg
 E - <0.0050 mg/kg
 X - <0.010 mg/kg
 TPH - <50 mg/kg
 N - <0.010 mg/kg
 SAR - 4.51
 EC - 1.58 mmhos/cm
 pH - 9.28

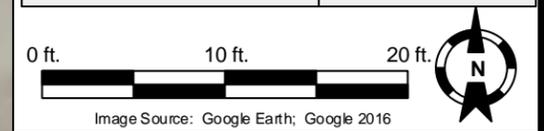
Legend

-  Excavation Sample Location
-  Excavation Sample Location (Not Submitted for Laboratory Analysis)
-  Excavation Extent
- mg/kg Milligrams Per Kilogram
- mmhos/cm Millimhos Per Centimeter

Notes

- 1) All locations are approximate unless otherwise noted
- 2) **RED** value indicates concentration greater than COGCC table 910-1 soil standard (see table below).

Contaminant of Concern	COGCC Concentration Standard
B - Benzene	0.17 mg/kg
T - Toluene	85 mg/kg
E - Ethylbenzene	100 mg/kg
X - Total Xylenes	175 mg/kg
TPH- Total Petroleum Hydrocarbons	500 mg/kg
N - Naphthalene	23 mg/kg
SAR - Sodium Absorption Ratio	<12 ⁵
EC - Electrical Conductivity	<4mmhos/cm or 2x background
pH	6-9



DATE: 08/16/2017
 DESIGNED BY: DC
 DRAWN BY: GB



TASMAN GEOSCIENCES
 Tasman Geosciences, Inc.
 6899 Pecos Street – Unit C
 Denver, CO 80221

Noble Energy
Foss USX AA 5-5, 6, 19 Vault Removal – Facility ID:292421
 NWSW, Section 5, Township 6 North, Range 63 West
 Weld County, Colorado

Excavation Soil Analytical
 Results Map
 (08/14/2017)

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

August 17, 2017

Brandon Bruns
Tasman Geosciences
6899 Pecos Street
Denver, CO 80221
RE: Foss USX AA 5-5,6,19

Enclosed are the results of analyses for samples received by Summit Scientific on 08/14/17 16:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Ben Shrewsbury', with a long, sweeping horizontal line extending to the right.

Ben Shrewsbury
Laboratory Manager



Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Foss USX AA 5-5,6,19

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
08/17/17 18:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS02@3'	1708124-01	Soil	08/14/17 14:16	08/14/17 16:45
SS05@7'	1708124-02	Soil	08/14/17 14:26	08/14/17 16:45

Summit Scientific

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Foss USX AA 5-5,6,19

Project Number: [none]
Project Manager: Brandon Bruns

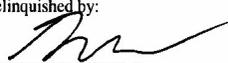
Reported:
08/17/17 18:53

Summit Scientific 1708124

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

Page 1 of 1

Client: <u>Noble/Tasman</u>	Project Manager: <u>Brandon Bruns, Invoice: Jacob Evans</u>
Address: <u>-</u>	E-Mail: <u>Bbruns@tasman-geo.com</u>
City/State/Zip: <u>-</u>	Project Name: <u>Foss USX AA 5-5,6,19</u>
Phone: <u>303-487-1228</u> Fax: <u>-</u>	Project Number: <u>-</u>
Sampler Name: <u>GB</u>	

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)	8260 BTEX	8260B GBTEXN	8015 DRO		pH, EC, SAR
SS0203-	8/14/17	1416	1			X										
SS0507-	8/14/17	1426	1			X							X	X		
Relinquished by: 	Date/Time: <u>8/14/17 1645</u>	Received by: 	Date/Time: <u>8/14/17 1645</u>	Turn Around Time (Check)				Notes:								
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	<input type="checkbox"/>	72 Hours	<input type="checkbox"/>	Standard <input checked="" type="checkbox"/> ON ICP								
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 Hours	<input type="checkbox"/>	48 Hours	<input type="checkbox"/>									
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: <u>4.0°C</u>												
				Intact:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No										

www.s2scientific.com

Summit Scientific



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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Foss USX AA 5-5,6,19

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
08/17/17 18:53

Sample Receipt Checklist

S2 Work Order: 1708124

Client: Noble/Tasman

Client Project ID: Foss USX AA 5-5,6,19

Shipped Via: P/U
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: _____

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

Cooler ID					
Temp (°C)	4.0				

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ?				
NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	✓			
Were all samples received intact ⁽¹⁾ ?	✓			
Was adequate sample volume provided ⁽¹⁾ ?	✓			
If custody seals are present, are they intact ⁽¹⁾ ?			✓	
Are short holding time analytes or samples with HTs due within 48 hours present?			✓	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	✓			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	✓			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	✓			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	✓			
For volatiles in water – is there headspace present? if yes, contact client and note in narrative.			✓	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ?			✓	
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⁾ ?			✓	
Record the pH in Comments.				
If dissolved metals are requested, were samples field filtered?			✓	
Additional Comments (if any):				

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

Nakita
Custodian Printed Name

[Signature]
Signature or Initials of Custodian

8/14/17 1730
Date/Time

[Signature]



Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Foss USX AA 5-5,6,19

Project Number: [none]
Project Manager: Brandon Brunns

Reported:
08/17/17 18:53

SS02@3'
1708124-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/14/17 14:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1708134	08/15/17	08/16/17	8015M	

Date Sampled: **08/14/17 14:16**

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: **08/14/17 14:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1708135	08/15/17	08/16/17	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **08/14/17 14:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		102 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.2 %	21-167		"	"	"	"	

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

Date Sampled: **08/14/17 14:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	2220	11.8	mg/kg dry	1	1708148	08/16/17	08/16/17	EPA 6020/Mod. USDA60 6(2, 3A)	

Summit Scientific

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Foss USX AA 5-5,6,19

Project Number: [none]
Project Manager: Brandon Brunns

Reported:
08/17/17 18:53

SS02@3'
1708124-01 (Soil)

Summit Scientific

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

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Magnesium	267	5.90	mg/kg dry	1	1708148	08/16/17	08/16/17	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium	844	5.90	"	"	"	"	"	"
Sodium Adsorption Ratio	4.51		units	"	1708164	08/17/17	08/17/17	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/14/17 14:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.28	0.100	pH Units	1	1708146	08/16/17	08/16/17	EPA 9045	
Specific Conductance (EC)	1.58	0.0100	mmhos/cm	"	1708147	08/16/17	08/17/17	SM 2510B	
% Solids	84.7		%	"	1708149	08/16/17	08/17/17	% calculation	

Summit Scientific

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Foss USX AA 5-5,6,19

Project Number: [none]
Project Manager: Brandon Brunns

Reported:
08/17/17 18:53

SS05@7'
1708124-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/14/17 14:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1708134	08/15/17	08/16/17	8015M	

Date Sampled: **08/14/17 14:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		103 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/14/17 14:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1708135	08/15/17	08/17/17	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **08/14/17 14:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.2 %	21-167		"	"	"	"	

Summit Scientific

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Foss USX AA 5-5,6,19

Project Number: [none]
Project Manager: Brandon Brunns

Reported:
08/17/17 18:53

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1708134 - EPA 3550A

Blank (1708134-BLK1)

Prepared & Analyzed: 08/15/17

C10-C28 (DRO)	ND	50	mg/kg								
<i>Surrogate: o-Terphenyl</i>	13.2		"	12.5		106	30-150				

LCS (1708134-BS1)

Prepared & Analyzed: 08/15/17

C10-C28 (DRO)	543	50	mg/kg	499		109	73-134				
<i>Surrogate: o-Terphenyl</i>	14.1		"	12.5		113	30-150				

Matrix Spike (1708134-MS1)

Source: 1708114-01

Prepared & Analyzed: 08/15/17

C10-C28 (DRO)	552	50	mg/kg	499	26.6	105	50-148				
<i>Surrogate: o-Terphenyl</i>	15.3		"	12.5		123	30-150				

Matrix Spike Dup (1708134-MSD1)

Source: 1708114-01

Prepared & Analyzed: 08/15/17

C10-C28 (DRO)	529	50	mg/kg	499	26.6	101	50-148	4.21	20		
<i>Surrogate: o-Terphenyl</i>	13.1		"	12.5		105	30-150				

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Foss USX AA 5-5,6,19

Project Number: [none]
Project Manager: Brandon Brunns

Reported:
08/17/17 18:53

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 1708135 - EPA 5030 Soil MS

Blank (1708135-BLK1)

Prepared: 08/15/17 Analyzed: 08/16/17

Naphthalene	ND	0.010	mg/kg							
Benzene	ND	0.0020	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0401</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0400</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0388</i>		<i>"</i>	<i>0.0400</i>		<i>97.1</i>	<i>21-167</i>			

LCS (1708135-BS1)

Prepared: 08/15/17 Analyzed: 08/16/17

Naphthalene	ND	0.010	mg/kg				66-138			
Benzene	0.0926	0.0020	"	0.100		92.6	58-130			
Toluene	0.0997	0.0050	"	0.100		99.7	61-134			
Ethylbenzene	0.102	0.0050	"	0.0992		103	74-139			
m,p-Xylene	0.198	0.010	"	0.200		99.1	73-137			
o-Xylene	0.100	0.0050	"	0.0980		102	73-141			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0404</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0406</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0383</i>		<i>"</i>	<i>0.0400</i>		<i>95.7</i>	<i>21-167</i>			

Matrix Spike (1708135-MS1)

Source: 1708114-01

Prepared: 08/15/17 Analyzed: 08/16/17

Naphthalene	ND	0.010	mg/kg		ND		10-158			
Benzene	0.0814	0.0020	"	0.100	ND	81.4	30-131			
Toluene	0.0856	0.0050	"	0.100	ND	85.6	30-134			
Ethylbenzene	0.0825	0.0050	"	0.0992	ND	83.2	22-153			
m,p-Xylene	0.161	0.010	"	0.200	ND	80.5	10-159			
o-Xylene	0.0805	0.0050	"	0.0980	ND	82.1	31-151			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0404</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0405</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0377</i>		<i>"</i>	<i>0.0400</i>		<i>94.3</i>	<i>21-167</i>			

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Foss USX AA 5-5,6,19

Project Number: [none]
Project Manager: Brandon Brunns

Reported:
08/17/17 18:53

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 1708135 - EPA 5030 Soil MS

Matrix Spike Dup (1708135-MSD1)	Source: 1708114-01			Prepared: 08/15/17		Analyzed: 08/16/17				
Naphthalene	ND	0.010	mg/kg		ND		10-158			42
Benzene	0.0785	0.0020	"	0.100	ND	78.5	30-131	3.60		34
Toluene	0.0820	0.0050	"	0.100	ND	82.0	30-134	4.33		30
Ethylbenzene	0.0767	0.0050	"	0.0992	ND	77.3	22-153	7.31		24
m,p-Xylene	0.149	0.010	"	0.200	ND	74.8	10-159	7.24		68
o-Xylene	0.0769	0.0050	"	0.0980	ND	78.4	31-151	4.58		38
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0425</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0412</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0382</i>		<i>"</i>	<i>0.0400</i>		<i>95.6</i>	<i>21-167</i>			

Summit Scientific

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Foss USX AA 5-5,6,19

Project Number: [none]
Project Manager: Brandon Brunns

Reported:
08/17/17 18:53

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		

Batch 1708148 - General Preparation

Blank (1708148-BLK1)

Prepared & Analyzed: 08/16/17

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

LCS (1708148-BS1)

Prepared & Analyzed: 08/16/17

Calcium	436	10.0	mg/kg wet	500		87.3	82.9-118		
Magnesium	483	5.00	"	500		96.5	77.1-123		
Sodium	454	5.00	"	500		90.9	71-129		

Duplicate (1708148-DUP1)

Source: 1708114-01

Prepared & Analyzed: 08/16/17

Calcium	746	11.0	mg/kg dry		668			11.1	200
Magnesium	196	5.48	"		242			21.3	200
Sodium	191	5.48	"		195			2.32	200

Matrix Spike (1708148-MS1)

Source: 1708114-01

Prepared & Analyzed: 08/16/17

Calcium	1100	11.0	mg/kg dry	548	668	79.3	75-125		
Magnesium	656	5.48	"	548	242	75.6	75-125		
Sodium	653	5.48	"	548	195	83.6	75-125		

Matrix Spike Dup (1708148-MSD1)

Source: 1708114-01

Prepared & Analyzed: 08/16/17

Calcium	1180	11.0	mg/kg dry	548	668	93.1	75-125	6.66	25
Magnesium	654	5.48	"	548	242	75.2	75-125	0.360	25
Sodium	646	5.48	"	548	195	82.3	75-125	1.11	25

Summit Scientific

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Foss USX AA 5-5,6,19

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
08/17/17 18:53

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 1708146 - General Preparation

LCS (1708146-BS1)					Prepared & Analyzed: 08/16/17					
pH	9.20	0.100	pH Units	9.16	100	95-105				
Duplicate (1708146-DUP1)					Source: 1708104-05 Prepared & Analyzed: 08/16/17					
pH	8.84	0.100	pH Units	8.87	0.339	20				

Batch 1708147 - General Preparation

Blank (1708147-BLK1)					Prepared: 08/16/17 Analyzed: 08/17/17					
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
LCS (1708147-BS1)					Prepared: 08/16/17 Analyzed: 08/17/17					
Specific Conductance (EC)	0.751	0.0100	mmhos/cm	0.750	100	90-110				
Duplicate (1708147-DUP1)					Source: 1708104-05 Prepared: 08/16/17 Analyzed: 08/17/17					
Specific Conductance (EC)	1.24	0.0100	mmhos/cm	1.25	0.361	20				

Batch 1708149 - General Preparation

Duplicate (1708149-DUP1)					Source: 1708124-01 Prepared: 08/16/17 Analyzed: 08/17/17					
% Solids	86.1		%	84.7	1.64	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: Foss USX AA 5-5,6,19

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
08/17/17 18:53

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