

February 03, 2020

Tasman Geosciences

Bob Cornez

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - Tuttle L 17-6 JI

Project Number - 90058482

Attached are your analytical results for KMG - Tuttle L 17-6 JI received by Origins Laboratory, Inc. January 28, 2020. This project is associated with Origins project number Y001418-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Bob Cornez  
Project Number: 90058482  
Project: KMG - Tuttle L 17-6 JI

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@6'	Y001418-01	Soil	January 28, 2020 16:08	01/28/2020 17:50
N01@5'	Y001418-02	Soil	January 28, 2020 16:10	01/28/2020 17:50
S01@5'	Y001418-03	Soil	January 28, 2020 16:12	01/28/2020 17:50
E01@5'	Y001418-04	Soil	January 28, 2020 16:14	01/28/2020 17:50
W01@5'	Y001418-05	Soil	January 28, 2020 16:16	01/28/2020 17:50

Origins Laboratory, Inc.



*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  
 6855 West 119th Avenue  
 Broomfield CO 80020

Bob Cornez  
 Project Number: 90058482  
 Project: KMG - Tuttle L 17-6 JI

www.originslaboratory.com

page 1 of 1

7001418

**ORIGINS**  
LABORATORY, INC

Client: APC/Tasman  
 Address: 6855 W 119th Ave  
 Telephone Number: 970-927-0393  
 Email Address: rcornez@tasman-geo.com

Project Manager: Robert Cornez  
 Project Name: TUTTLE L 17-6 JI  
 Project Number: 900 58482  
 Samples Collected By: rcornez@tasman-geo.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions		
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa #	Other	ERTEX+N	ORG/DRO	SAR		PH	EC
BOT@6	1/28/20	4:08	2	✓				✓				✓	✓	✓	✓	S	1
N@1@5		4:10	1	✓				✓				✓	✓	✓	✓	A	2
S@1@5		4:12	1	✓				✓				✓	✓	✓	✓	A D	3
E@1@5		4:14	1	✓				✓				✓	✓	✓	✓	E A	4
W@1@5		4:16	1	✓				✓				✓	✓	✓	✓	Y	5
																	6
																	7
																	8
																	9
																	10
Relinquished By: <i>[Signature]</i>	Date: 1/28/20	Time: 1750	Time: 1750	Received By: <i>[Signature]</i>	Date: 1/28/20	Time: 1750	Date: 1/28/20	Time: 1750	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/>								
Relinquished By:	Date:	Time:	Time:	Received By:	Date:	Time:	Date:	Time:									

Date Results Needed: 4/9

Origins Laboratory, Inc.

*Jefe Pellegrini*

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  
 6855 West 119th Avenue  
 Broomfield CO 80020

Bob Cornez  
 Project Number: 90058482  
 Project: KMG - Tuttle L 17-6 JI

Origins Laboratory

F-012207-01-R1  
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y001418

Client: Tasman

Client Project ID: Tuttle L 17-6 JI

Checklist Completed by: JG

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 1/28/2020

Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_

Cooler Number/Temperature: 1 / 4.9 °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>if yes, contact client and note in narrative.</b>			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 1/28/20

Origins Laboratory, Inc.

Jefe Pellegrini

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  
 6855 West 119th Avenue  
 Broomfield CO 80020

Bob Cornez  
 Project Number: 90058482  
 Project: KMG - Tuttle L 17-6 JI

**B01@6'**

**1/28/2020 4:08:00PM**

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

**Origins Laboratory, Inc.**  
**Y001418-01 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0A2815	KDK	01/28/2020	01/29/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 74.6 % 50-150 " " "

**GBTEX + Naphthalene by EPA 8260D**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0A2817	KDK	01/28/2020	01/29/2020	U
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "  
 Surrogate: Toluene-d8 96.8 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 94.3 % 70-130 " " "

**Metals (Saturated Paste Prep)**

Calcium	<b>2.58</b>		me/L	1	[none]		01/29/2020	01/31/2020	
Magnesium	<b>2.67</b>		"	"	"		"	"	
Sodium	<b>4.01</b>		"	"	"		"	"	

Origins Laboratory, Inc.



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  
6855 West 119th Avenue  
Broomfield CO 80020

Bob Cornez  
Project Number: 90058482  
Project: KMG - Tuttle L 17-6 JI

**B01@6'**

**1/28/2020 4:08:00PM**

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

**Origins Laboratory, Inc.**  
**Y001418-01 (Soil)**

**pH in Soil by EPA 9045D**

pH	7.75		pH Units	1	B0A2813	DJL	01/28/2020	01/28/2020	
----	------	--	----------	---	---------	-----	------------	------------	--

**SAR by 20B Saturated Paste**

SAR	2.48			1	[none]		01/29/2020	01/31/2020	
-----	------	--	--	---	--------	--	------------	------------	--

**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.106	0.00500	mmhos/cm	1	B0A2814	DJL	01/28/2020	01/28/2020	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

Origins Laboratory, Inc.



*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  
 6855 West 119th Avenue  
 Broomfield CO 80020

Bob Cornez  
 Project Number: 90058482  
 Project: KMG - Tuttle L 17-6 JI

N01@5'

1/28/2020 4:10:00PM

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

**Origins Laboratory, Inc.**  
 Y001418-02 (Soil)

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0A2815	KDK	01/28/2020	01/29/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 83.1 % 50-150 " " "

**GBTEX + Naphthalene by EPA 8260D**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0A2817	KDK	01/28/2020	01/29/2020	U
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "  
 Surrogate: Toluene-d8 96.7 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 95.5 % 70-130 " " "

Origins Laboratory, Inc.



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  
 6855 West 119th Avenue  
 Broomfield CO 80020

Bob Cornez  
 Project Number: 90058482  
 Project: KMG - Tuttle L 17-6 JI

S01@5'

1/28/2020 4:12:00PM

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

**Origins Laboratory, Inc.**  
 Y001418-03 (Soil)

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0A2815	KDK	01/28/2020	01/29/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 71.7 % 50-150 " " "

**GBTEX + Naphthalene by EPA 8260D**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0A2817	KDK	01/28/2020	01/29/2020	U
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "  
 Surrogate: Toluene-d8 97.8 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 95.4 % 70-130 " " "

Origins Laboratory, Inc.



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  
 6855 West 119th Avenue  
 Broomfield CO 80020

Bob Cornez  
 Project Number: 90058482  
 Project: KMG - Tuttle L 17-6 JI

E01@5'

1/28/2020 4:14:00PM

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

**Origins Laboratory, Inc.**  
 Y001418-04 (Soil)

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0A2815	KDK	01/28/2020	01/29/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 73.3 % 50-150 " " "

**GBTEX + Naphthalene by EPA 8260D**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0A2817	KDK	01/28/2020	01/29/2020	U
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "  
 Surrogate: Toluene-d8 97.0 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 96.1 % 70-130 " " "

Origins Laboratory, Inc.



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  
 6855 West 119th Avenue  
 Broomfield CO 80020

Bob Cornez  
 Project Number: 90058482  
 Project: KMG - Tuttle L 17-6 JI

W01@5'

1/28/2020 4:16:00PM

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

**Origins Laboratory, Inc.**  
 Y001418-05 (Soil)

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0A2815	KDK	01/28/2020	01/29/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 62.9 % 50-150 " " "

**GBTEX + Naphthalene by EPA 8260D**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0A2817	KDK	01/28/2020	01/29/2020	U
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "  
 Surrogate: Toluene-d8 97.3 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 95.4 % 70-130 " " "

Origins Laboratory, Inc.



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  
 6855 West 119th Avenue  
 Broomfield CO 80020

Bob Cornez  
 Project Number: 90058482  
 Project: KMG - Tuttle L 17-6 JI

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B0A2815 - EPA 3580</b>										
<b>Blank (B0A2815-BLK1)</b>										
					Prepared: 01/28/2020 Analyzed: 01/29/2020					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	25.0		99.5	50-150			

Origins Laboratory, Inc.



*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  
 6855 West 119th Avenue  
 Broomfield CO 80020

Bob Cornez  
 Project Number: 90058482  
 Project: KMG - Tuttle L 17-6 JI

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

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

**Batch B0A2815 - EPA 3580**

**LCS (B0A2815-BS1)**

Prepared: 01/28/2020 Analyzed: 01/29/2020

Diesel (C10-C28)	1060	50.0	mg/kg	1000		106	70-130			
Residual Range Organics (C28-C40)	918	200	"	1000		91.8	70-130			
Surrogate: o-Terphenyl	46		"	50.0		92.4	50-150			

Origins Laboratory, Inc.



*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  
 6855 West 119th Avenue  
 Broomfield CO 80020

Bob Cornez  
 Project Number: 90058482  
 Project: KMG - Tuttle L 17-6 JI

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

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

Batch B0A2815 - EPA 3580

Matrix Spike (B0A2815-MS1)	Source: Y001418-01			Prepared: 01/28/2020 Analyzed: 01/29/2020						
Diesel (C10-C28)	965	50.0	mg/kg	1000	ND	96.5	70-130			
Residual Range Organics (C28-C40)	852	200	"	1000	ND	85.2	70-130			
Surrogate: o-Terphenyl	43		"	50.0		85.2	50-150			

Origins Laboratory, Inc.



*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  
 6855 West 119th Avenue  
 Broomfield CO 80020

Bob Cornez  
 Project Number: 90058482  
 Project: KMG - Tuttle L 17-6 JI

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

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

**Batch B0A2815 - EPA 3580**

<b>Matrix Spike Dup (B0A2815-MSD1)</b>	<b>Source: Y001418-01</b>			<b>Prepared: 01/28/2020 Analyzed: 01/29/2020</b>						
Diesel (C10-C28)	933	50.0	mg/kg	1000	ND	93.3	70-130	3.35	35	
Residual Range Organics (C28-C40)	823	200	"	1000	ND	82.3	70-130	3.48	35	
Surrogate: o-Terphenyl	38		"	50.0		76.7	50-150			

Origins Laboratory, Inc.



*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  
 6855 West 119th Avenue  
 Broomfield CO 80020

Bob Cornez  
 Project Number: 90058482  
 Project: KMG - Tuttle L 17-6 JI

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

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

**Batch B0A2817 - EPA 5030 (soil)**

**Blank (B0A2817-BLK1)**

Prepared: 01/28/2020 Analyzed: 01/28/2020

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.2	70-130			

Origins Laboratory, Inc.



*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  
 6855 West 119th Avenue  
 Broomfield CO 80020

Bob Cornez  
 Project Number: 90058482  
 Project: KMG - Tuttle L 17-6 JI

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

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

**Batch B0A2817 - EPA 5030 (soil)**

**LCS (B0A2817-BS1)**

Prepared: 01/28/2020 Analyzed: 01/28/2020

Benzene	0.087	0.002	mg/kg	0.100		87.4	70-130			
Toluene	0.089	0.002	"	0.100		88.7	70-130			
Ethylbenzene	0.089	0.002	"	0.100		88.9	70-130			
m,p-Xylene	0.180	0.004	"	0.200		90.0	70-130			
o-Xylene	0.089	0.002	"	0.100		88.9	70-130			
Naphthalene	0.093	0.008	"	0.100		93.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.1	70-130			

Origins Laboratory, Inc.



*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  
 6855 West 119th Avenue  
 Broomfield CO 80020

Bob Cornez  
 Project Number: 90058482  
 Project: KMG - Tuttle L 17-6 JI

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

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

Batch B0A2817 - EPA 5030 (soil)

Matrix Spike (B0A2817-MS1)	Source: Y001420-14			Prepared: 01/28/2020 Analyzed: 01/29/2020						
Benzene	0.102	0.002	mg/kg	0.100	ND	102	70-130			
Toluene	0.102	0.002	"	0.100	ND	102	70-130			
Ethylbenzene	0.104	0.002	"	0.100	ND	104	70-130			
m,p-Xylene	0.211	0.004	"	0.200	ND	105	70-130			
o-Xylene	0.105	0.002	"	0.100	ND	105	70-130			
Naphthalene	0.093	0.008	"	0.100	ND	93.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.1	70-130			

Origins Laboratory, Inc.



*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  
 6855 West 119th Avenue  
 Broomfield CO 80020

Bob Cornez  
 Project Number: 90058482  
 Project: KMG - Tuttle L 17-6 JI

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

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

Batch B0A2817 - EPA 5030 (soil)

Matrix Spike Dup (B0A2817-MSD1)	Source: Y001420-14			Prepared: 01/28/2020 Analyzed: 01/29/2020						
Benzene	0.103	0.002	mg/kg	0.100	ND	103	70-130	1.27	20	
Toluene	0.103	0.002	"	0.100	ND	103	70-130	1.29	20	
Ethylbenzene	0.105	0.002	"	0.100	ND	105	70-130	0.903	20	
m,p-Xylene	0.212	0.004	"	0.200	ND	106	70-130	0.681	20	
o-Xylene	0.102	0.002	"	0.100	ND	102	70-130	2.65	20	
Naphthalene	0.086	0.008	"	0.100	ND	86.1	70-130	7.88	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.0	70-130			

Origins Laboratory, Inc.



*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  
6855 West 119th Avenue  
Broomfield CO 80020

Bob Cornez  
Project Number: 90058482  
Project: KMG - Tuttle L 17-6 JI

---

**Notes and Definitions**

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



*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.*

---

Jen Pellegrini For Noelle Doyle Mathis, President