

May 01, 2017

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - Tuttle L 17-6

Project Number - 89156407

Attached are your analytical results for KMG - Tuttle L 17-6 received by Origins Laboratory, Inc. April 26, 2017. This project is associated with Origins project number Y704315-01.

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
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89156407
Project: KMG - Tuttle L 17-6

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH04-4/26/17	Y704315-01	Water	April 26, 2017 13:51	04/26/2017 15:22
BH08-4/26/17	Y704315-02	Water	April 26, 2017 13:55	04/26/2017 15:22
BH09-4/26/17	Y704315-03	Water	April 26, 2017 14:00	04/26/2017 15:22
BH10-4/26/17	Y704315-04	Water	April 26, 2017 14:09	04/26/2017 15:22

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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89156407
 Project: KMG - Tuttle L 17-6

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4704315 Client: Tasman
 Client Project ID: KMG - Tuttle L 17-6
 Checklist Completed by: Don Lee Shipped Via: HD
 Date/time completed: 4-26-15 1541 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: NA
 Matrix(s) Received: (Check all that apply): Soil/Solid / Water Other: _____
 Cooler Number/Temperature: 2 / 10.9 °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 ⁽¹⁾ ?		/		sampled same Day
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) 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 with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		/		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (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 ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)		/		
Additional Comments (if any):				

⁽¹⁾ 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 4/27/17

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89156407
 Project: KMG - Tuttle L 17-6

BH04-4/26/17
4/26/2017 1:51:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y704315-01 (Water)

BTEX by EPA 8260C

Benzene	7250	100	ug/L	100	B7D2805	04/28/2017	05/01/2017	
Toluene	ND	100	"	"	"	"	"	U
Ethylbenzene	132	100	"	"	"	"	"	
Xylenes, total	1970	100	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	90.8 %	84-121			"	"	"	
Surrogate: Toluene-d8	97.3 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89156407
 Project: KMG - Tuttle L 17-6

BH08-4/26/17
4/26/2017 1:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y704315-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7D2805	04/28/2017	05/01/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	92.2 %	84-121			"	"	"	
Surrogate: Toluene-d8	95.9 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89156407
 Project: KMG - Tuttle L 17-6

BH09-4/26/17
4/26/2017 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y704315-03 (Water)

BTEX by EPA 8260C

Benzene	2110	20.0	ug/L	20	B7D2805	04/28/2017	05/01/2017	
Toluene	ND	20.0	"	"	"	"	"	U
Ethylbenzene	79.8	20.0	"	"	"	"	"	
Xylenes, total	569	20.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	94.7 %	84-121			"	"	"	
Surrogate: Toluene-d8	97.2 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.6 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89156407
 Project: KMG - Tuttle L 17-6

BH10-4/26/17
 4/26/2017 2:09:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y704315-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7D2805	04/28/2017	05/01/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	91.9 %	84-121			"	"	"	
Surrogate: Toluene-d8	96.7 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.0 %	84-114			"	"	"	

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89156407
 Project: KMG - Tuttle L 17-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7D2805 - EPA 5030B (Water)

Blank (B7D2805-BLK1)

Prepared: 04/28/2017 Analyzed: 04/28/2017

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	59		"	62.5	93.9		84-121			
<i>Surrogate: Toluene-d8</i>	60		"	62.5	96.1		85-115			
<i>Surrogate: 4-Bromofluorobenzene</i>	64		"	62.5	102		84-114			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7D2805 - EPA 5030B (Water)

Blank (B7D2805-BLK2)

Prepared: 04/28/2017 Analyzed: 04/28/2017

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.2	84-121			
Surrogate: Toluene-d8	59		"	62.5		94.9	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.2	84-114			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7D2805 - EPA 5030B (Water)

LCS (B7D2805-BS1)

Prepared: 04/28/2017 Analyzed: 04/28/2017

Benzene	48.6	1.00	ug/L	50.0		97.2	73.3-129			
Toluene	48.6	1.00	"	50.0		97.2	76.2-123			
Ethylbenzene	50.4	1.00	"	50.0		101	73.6-130			
m,p-Xylene	101	2.00	"	100		101	76.1-126			
o-Xylene	50.2	1.00	"	50.0		100	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.6	84-121			
Surrogate: Toluene-d8	60		"	62.5		96.3	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.7	84-114			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7D2805 - EPA 5030B (Water)

LCS (B7D2805-BS2)

Prepared: 04/28/2017 Analyzed: 04/28/2017

Benzene	45.9	1.00	ug/L	50.0		91.8	73.3-129			
Toluene	45.6	1.00	"	50.0		91.2	76.2-123			
Ethylbenzene	45.0	1.00	"	50.0		90.0	73.6-130			
m,p-Xylene	91.3	2.00	"	100		91.3	76.1-126			
o-Xylene	45.7	1.00	"	50.0		91.4	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.8	84-121			
Surrogate: Toluene-d8	60		"	62.5		96.5	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.7	84-114			

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 Denver CO 80211

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 Project: KMG - Tuttle L 17-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7D2805 - EPA 5030B (Water)

Matrix Spike (B7D2805-MS1)	Source: Y704306-08			Prepared: 04/28/2017 Analyzed: 04/28/2017						
Benzene	65.6	1.00	ug/L	50.0	2.41	126	74-130			
Toluene	66.8	1.00	"	50.0	2.37	129	73-131			
Ethylbenzene	66.5	1.00	"	50.0	ND	133	76-132			QM-07
m,p-Xylene	136	2.00	"	100	3.70	132	69-139			
o-Xylene	63.8	1.00	"	50.0	0.730	126	74-131			
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.7	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.4	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.5	84-114			

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Bob Cornez
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 Project: KMG - Tuttle L 17-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7D2805 - EPA 5030B (Water)

Matrix Spike (B7D2805-MS2)	Source: Y704306-09			Prepared: 04/28/2017 Analyzed: 04/28/2017						
Benzene	63.0	1.00	ug/L	50.0	ND	126	74-130			
Toluene	63.1	1.00	"	50.0	ND	126	73-131			
Ethylbenzene	64.7	1.00	"	50.0	ND	129	76-132			
m,p-Xylene	129	2.00	"	100	ND	129	69-139			
o-Xylene	63.4	1.00	"	50.0	ND	127	74-131			
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		90.8	84-121			
Surrogate: Toluene-d8	60		"	62.5		95.9	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.9	84-114			

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89156407
 Project: KMG - Tuttle L 17-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7D2805 - EPA 5030B (Water)

Matrix Spike Dup (B7D2805-MSD1)	Source: Y704306-08			Prepared: 04/28/2017 Analyzed: 04/28/2017						
Benzene	52.3	1.00	ug/L	50.0	2.41	99.9	74-130	22.5	20	QR-02
Toluene	52.6	1.00	"	50.0	2.37	101	73-131	23.8	20	QR-02
Ethylbenzene	51.0	1.00	"	50.0	ND	102	76-132	26.5	20	QR-03
m,p-Xylene	105	2.00	"	100	3.70	102	69-139	25.3	20	QR-02
o-Xylene	49.6	1.00	"	50.0	0.730	97.8	74-131	24.9	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.4	84-121			
Surrogate: Toluene-d8	60		"	62.5		96.6	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.3	84-114			

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

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

Batch B7D2805 - EPA 5030B (Water)

Matrix Spike Dup (B7D2805-MSD2)	Source: Y704306-09			Prepared: 04/28/2017 Analyzed: 04/28/2017						
Benzene	59.9	1.00	ug/L	50.0	ND	120	74-130	5.09	20	
Toluene	60.1	1.00	"	50.0	ND	120	73-131	4.87	20	
Ethylbenzene	61.6	1.00	"	50.0	ND	123	76-132	4.85	20	
m,p-Xylene	123	2.00	"	100	ND	123	69-139	5.16	20	
o-Xylene	59.8	1.00	"	50.0	ND	120	74-131	5.91	20	
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		90.6	84-121			
Surrogate: Toluene-d8	60		"	62.5		96.1	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.3	84-114			

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6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89156407
Project: KMG - Tuttle L 17-6

Notes and Definitions

U Sample is Non-Detect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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.



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July 12, 2017

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - Tuttle L 17-6

Project Number - 89156407

Attached are your analytical results for KMG - Tuttle L 17-6 received by Origins Laboratory, Inc. July 07, 2017. This project is associated with Origins project number Y707083-01.

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



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6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89156407
Project: KMG - Tuttle L 17-6

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH04 - 7/7/17	Y707083-01	Water	July 7, 2017 12:15	07/07/2017 16:53
BH08 - 7/7/17	Y707083-02	Water	July 7, 2017 12:00	07/07/2017 16:53
BH09 - 7/7/17	Y707083-03	Water	July 7, 2017 12:05	07/07/2017 16:53
BH10 - 7/7/17	Y707083-04	Water	July 7, 2017 11:45	07/07/2017 16:53

Origins Laboratory, Inc.



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Bob Cornez
 Project Number: 89156407
 Project: KMG - Tuttle L 17-6

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4707083

Client: Tasman

Client Project ID: KMG - Tuttle L 17-6

Checklist Completed by: [Signature]

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

Date/time completed: 7-10-12 1326

Airbill #: NA

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

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

Thermometer ID: TCU 34 dz

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (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 ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

⁽¹⁾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.

[Signature]
 Reviewed by (Project Manager)

7-10-12 1329
 Date/Time Reviewed

Origins Laboratory, Inc.

[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, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89156407
 Project: KMG - Tuttle L 17-6

BH04 - 7/7/17
7/7/2017 12:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707083-01 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7G1102	07/11/2017	07/12/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	6.75	1.00	"	"	"	"	"	
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.2 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	84-114			"	"	"	

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
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89156407
 Project: KMG - Tuttle L 17-6

BH08 - 7/7/17
7/7/2017 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707083-02 (Water)

BTEX by EPA 8260C

Benzene	1.09	1.00	ug/L	1	B7G1102	07/11/2017	07/11/2017	
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	1.14	1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121			"	"	"	
Surrogate: Toluene-d8	97.6 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.0 %	84-114			"	"	"	

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
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89156407
 Project: KMG - Tuttle L 17-6

BH09 - 7/7/17
7/7/2017 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707083-03 (Water)

BTEX by EPA 8260C

Benzene	2620	20.0	ug/L	20	B7G1102	07/11/2017	07/11/2017	
Toluene	ND	20.0	"	"	"	"	"	U
Ethylbenzene	76.0	20.0	"	"	"	"	"	
Xylenes, total	514	20.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	103 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.9 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.9 %	84-114			"	"	"	

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
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89156407
 Project: KMG - Tuttle L 17-6

BH10 - 7/7/17
7/7/2017 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707083-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7G1102	07/11/2017	07/11/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	103 %	84-121			"	"	"	
<i>Surrogate: Toluene-d8</i>	96.5 %	85-115			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	96.4 %	84-114			"	"	"	

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
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89156407
 Project: KMG - Tuttle L 17-6

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

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

Batch B7G1102 - EPA 5030B (Water)

Blank (B7G1102-BLK1)

Prepared: 07/11/2017 Analyzed: 07/11/2017

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	65		"	62.5	103		84-121			
<i>Surrogate: Toluene-d8</i>	61		"	62.5	97.2		85-115			
<i>Surrogate: 4-Bromofluorobenzene</i>	63		"	62.5	101		84-114			

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
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89156407
 Project: KMG - Tuttle L 17-6

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

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

Batch B7G1102 - EPA 5030B (Water)

LCS (B7G1102-BS1)

Prepared: 07/11/2017 Analyzed: 07/11/2017

Benzene	46.4	1.00	ug/L	50.0		92.8	73.3-129			
Toluene	46.0	1.00	"	50.0		92.1	76.2-123			
Ethylbenzene	41.8	1.00	"	50.0		83.6	73.6-130			
m,p-Xylene	90.7	2.00	"	100		90.7	76.1-126			
o-Xylene	45.2	1.00	"	50.0		90.3	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.8	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.1	84-114			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89156407
 Project: KMG - Tuttle L 17-6

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

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

Batch B7G1102 - EPA 5030B (Water)

Matrix Spike (B7G1102-MS1)	Source: Y707053-01			Prepared: 07/11/2017 Analyzed: 07/11/2017						
Benzene	89.7	1.00	ug/L	50.0	54.8	69.8	74-130			QM-07
Toluene	52.7	1.00	"	50.0	ND	105	73-131			
Ethylbenzene	307	1.00	"	50.0	362	NR	76-132			QM-07
m,p-Xylene	111	2.00	"	100	5.74	105	69-139			
o-Xylene	50.8	1.00	"	50.0	ND	102	74-131			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.8	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

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
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89156407
 Project: KMG - Tuttle L 17-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7G1102 - EPA 5030B (Water)

Matrix Spike Dup (B7G1102-MSD1)	Source: Y707053-01			Prepared: 07/11/2017 Analyzed: 07/11/2017						
Benzene	92.1	1.00	ug/L	50.0	54.8	74.6	74-130	2.67	20	
Toluene	55.4	1.00	"	50.0	ND	111	73-131	4.90	20	
Ethylbenzene	321	1.00	"	50.0	362	NR	76-132	4.58	20	QM-07
m,p-Xylene	115	2.00	"	100	5.74	109	69-139	3.45	20	
o-Xylene	52.4	1.00	"	50.0	ND	105	74-131	3.12	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.6	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	84-114			

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
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89156407
Project: KMG - Tuttle L 17-6

Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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

November 17, 2017

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - Tuttle L 17-6

Project Number - 89156407

Attached are your analytical results for KMG - Tuttle L 17-6 received by Origins Laboratory, Inc. November 09, 2017. This project is associated with Origins project number Y711157-01.

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
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89156407
Project: KMG - Tuttle L 17-6

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01R - 11/9/2017	Y711157-01	Water	November 9, 2017 14:15	11/09/2017 17:00
BH04 - 11/9/2017	Y711157-02	Water	November 9, 2017 14:30	11/09/2017 17:00
BH09 - 11/9/2017	Y711157-03	Water	November 9, 2017 13:55	11/09/2017 17:00
BH10 - 11/9/2017	Y711157-04	Water	November 9, 2017 14:20	11/09/2017 17:00
BH11 - 11/9/2017	Y711157-05	Water	November 9, 2017 14:30	11/09/2017 17:00
BH12 - 11/9/2017	Y711157-06	Water	November 9, 2017 14:10	11/09/2017 17:00
BH13 - 11/9/2017	Y711157-07	Water	November 9, 2017 13:45	11/09/2017 17:00
BH14 - 11/9/2017	Y711157-08	Water	November 9, 2017 13:45	11/09/2017 17:00
BH02R - 11/14/2017	Y711209-01	Water	November 14, 2017 10:10	11/14/2017 17:00
BH08 - 11/14/2017	Y711209-02	Water	November 14, 2017 10:00	11/14/2017 17:00

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
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89156407
 Project: KMG - Tuttle L 17-6

www.originslaboratory.com
 page 1 of 1

Y711157

ORIGINS
 LABORATORY, INC

Client: Andorino/Tasman Project Manager/Send Report To: Bob Cornez
 Address: 6899 N. Pecos St. Email Address: rcornez@tasman-820.com
 Telephone Number: 970 481 6909 Project Name/Number: Tuttle L17-6 / 89156407
 Samples Collected By: Mix Gutzg

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method	Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #			Other	
BH0R 11/9/2017	11/9/2017	1415	3	X				X				1	GT, EX	
BH0Y 11/9/2017	11/9/2017	1430	1									2		
BH09 11/9/2017	11/9/2017	1355	1									3		
BH10 11/9/2017	11/9/2017	1420	1									4		
BH11 11/9/2017	11/9/2017	1430	1									5		
BH12 11/9/2017	11/9/2017	1410	1									6		
BH13 11/9/2017	11/9/2017	1345	1									7		
BH14 11/9/2017	11/9/2017	1345	1									8		
												9		
												10		
Relinquished By: <u>[Signature]</u>	Date: 11/9/2017	Time: 1700	Time: 1700	Received By: <u>[Signature]</u>	Date: 11/9/17	Time: 17:00	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>	Relinquished By: <u>[Signature]</u>	Date: 11/9/2017	Time: 1700	Received By: <u>[Signature]</u>	Date: 11/9/17	Time: 17:00	Standard <input checked="" type="checkbox"/>

Pedia Basille Mandant

Comments:

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
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89156407
 Project: KMG - Tuttle L 17-6

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y711157

Client: Tasman

Client Project ID: KMG - Tuttle L 17-6

Checklist Completed by: JAG

Shipped Via: HS Pick-up
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 11/10/17

Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____ (Describe)

Cooler Number/Temperature: 1 / 20 °c _____ / _____ °c _____ / _____ °c

Thermometer ID: _____

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

⁽¹⁾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 11-10-17 1205

Origins Laboratory, Inc.

[Signature: Jen 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
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89156407
 Project: KMG - Tuttle L 17-6

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4711209

Client: Tasman

Client Project ID: KMG - Tuttle L 17-6 L

Checklist Completed by: SL

Shipped Via: HS
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 11/15/17

Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____ (Describe)

Cooler Number/Temperature: 1 / 4.1 °C / _____ °C / _____ °C / _____ °C

Thermometer ID: TC03

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) 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 with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		/		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (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 ₃ , HCl, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)		/		
Additional Comments (if any):				

⁽¹⁾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 11/15/17

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
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89156407
 Project: KMG - Tuttle L 17-6

BH01R - 11/9/2017
11/9/2017 2:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y711157-01 (Water)

BTEX by EPA 8260C

Benzene	1180	20.0	ug/L	20	B7K1003	11/10/2017	11/13/2017	
Toluene	ND	4.00	"	4	"	"	11/10/2017	U
Ethylbenzene	57.3	4.00	"	"	"	"	"	
Xylenes, total	287	4.00	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	99.3 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.3 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89156407
 Project: KMG - Tuttle L 17-6

BH04 - 11/9/2017
11/9/2017 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y711157-02 (Water)

BTEX by EPA 8260C

Benzene	5110	100	ug/L	100	B7K1003	11/10/2017	11/13/2017	
Toluene	ND	1.00	"	1	"	"	11/10/2017	U
Ethylbenzene	149	1.00	"	"	"	"	"	
Xylenes, total	1170	20.0	"	20	"	"	11/13/2017	
Surrogate: 1,2-Dichloroethane-d4	108 %	84-121			"	"	"	
Surrogate: Toluene-d8	104 %	85-115			"	"	11/10/2017	
Surrogate: 4-Bromofluorobenzene	103 %	84-114			"	"	"	

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
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89156407
 Project: KMG - Tuttle L 17-6

BH09 - 11/9/2017
11/9/2017 1:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y711157-03 (Water)

BTEX by EPA 8260C

Benzene	1910	20.0	ug/L	20	B7K1003	11/10/2017	11/10/2017	
Toluene	ND	20.0	"	"	"	"	"	U
Ethylbenzene	35.2	20.0	"	"	"	"	"	
Xylenes, total	175	20.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.6 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.0 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.9 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89156407
 Project: KMG - Tuttle L 17-6

BH10 - 11/9/2017
11/9/2017 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y711157-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7K1003	11/10/2017	11/10/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	101 %	84-121			"	"	"	
Surrogate: Toluene-d8	100 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	84-114			"	"	"	

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Bob Cornez
 Project Number: 89156407
 Project: KMG - Tuttle L 17-6

BH11 - 11/9/2017
11/9/2017 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y711157-05 (Water)

BTEX by EPA 8260C

Benzene	14000	200	ug/L	200	B7K1003	11/10/2017	11/13/2017	
Toluene	ND	4.00	"	4	"	"	11/10/2017	U
Ethylbenzene	151	4.00	"	"	"	"	"	
Xylenes, total	5820	50.0	"	50	"	"	11/13/2017	
Surrogate: 1,2-Dichloroethane-d4	87.4 %	84-121			"	"	11/10/2017	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.7 %	84-114			"	"	"	

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 Project: KMG - Tuttle L 17-6

BH12 - 11/9/2017
11/9/2017 2:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y711157-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7K1003	11/10/2017	11/10/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	
Surrogate: Toluene-d8	100 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.8 %	84-114			"	"	"	

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 Project: KMG - Tuttle L 17-6

BH13 - 11/9/2017
11/9/2017 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y711157-07 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7K1003	11/10/2017	11/10/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	101 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.1 %	84-114			"	"	"	

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 Project: KMG - Tuttle L 17-6

BH14 - 11/9/2017
11/9/2017 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y711157-08 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7K1003	11/10/2017	11/10/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	99.3 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.3 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.8 %	84-114			"	"	"	

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 Project: KMG - Tuttle L 17-6

BH02R - 11/14/2017
11/14/2017 10:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y711209-01 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7K1506	11/15/2017	11/15/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.9 %	84-114			"	"	"	

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Bob Cornez
 Project Number: 89156407
 Project: KMG - Tuttle L 17-6

BH08 - 11/14/2017
11/14/2017 10:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y711209-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7K1506	11/15/2017	11/15/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	99.0 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.3 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.9 %	84-114			"	"	"	

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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89156407
 Project: KMG - Tuttle L 17-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7K1003 - EPA 5030B (Water)

Blank (B7K1003-BLK1)

Prepared: 11/10/2017 Analyzed: 11/10/2017

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.1	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.6	84-114			

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 Project: KMG - Tuttle L 17-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7K1003 - EPA 5030B (Water)

LCS (B7K1003-BS1)

Prepared: 11/10/2017 Analyzed: 11/10/2017

Benzene	48.8	1.00	ug/L	50.0		97.5	73.3-129			
Toluene	49.1	1.00	"	50.0		98.2	76.2-123			
Ethylbenzene	53.1	1.00	"	50.0		106	73.6-130			
m,p-Xylene	105	2.00	"	100		105	76.1-126			
o-Xylene	53.3	1.00	"	50.0		107	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		105	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.2	84-114			

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 Project: KMG - Tuttle L 17-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7K1003 - EPA 5030B (Water)

Matrix Spike (B7K1003-MS1)	Source: Y711155-01			Prepared: 11/10/2017 Analyzed: 11/10/2017						
Benzene	51.4	1.00	ug/L	50.0	0.180	102	74-130			
Toluene	51.7	1.00	"	50.0	ND	103	73-131			
Ethylbenzene	53.6	1.00	"	50.0	ND	107	76-132			
m,p-Xylene	106	2.00	"	100	ND	106	69-139			
o-Xylene	53.8	1.00	"	50.0	ND	108	74-131			
Surrogate: 1,2-Dichloroethane-d4	70		"	62.5		111	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.4	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

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 Project: KMG - Tuttle L 17-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7K1003 - EPA 5030B (Water)

Matrix Spike Dup (B7K1003-MSD1)	Source: Y711155-01			Prepared: 11/10/2017 Analyzed: 11/10/2017						
Benzene	54.4	1.00	ug/L	50.0	0.180	109	74-130	5.74	20	
Toluene	56.1	1.00	"	50.0	ND	112	73-131	8.18	20	
Ethylbenzene	59.3	1.00	"	50.0	ND	119	76-132	10.1	20	
m,p-Xylene	116	2.00	"	100	ND	116	69-139	9.57	20	
o-Xylene	58.5	1.00	"	50.0	ND	117	74-131	8.30	20	
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.2	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.1	84-114			

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Bob Cornez
 Project Number: 89156407
 Project: KMG - Tuttle L 17-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7K1506 - EPA 5030B (Water)

Blank (B7K1506-BLK1)

Prepared: 11/15/2017 Analyzed: 11/15/2017

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5	99.7		84-121			
Surrogate: Toluene-d8	61		"	62.5	97.3		85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5	100		84-114			

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Bob Cornez
 Project Number: 89156407
 Project: KMG - Tuttle L 17-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7K1506 - EPA 5030B (Water)

Blank (B7K1506-BLK2)

Prepared: 11/15/2017 Analyzed: 11/15/2017

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5	102		84-121			
Surrogate: Toluene-d8	62		"	62.5	99.5		85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5	98.1		84-114			

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Bob Cornez
 Project Number: 89156407
 Project: KMG - Tuttle L 17-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7K1506 - EPA 5030B (Water)

LCS (B7K1506-BS1)

Prepared: 11/15/2017 Analyzed: 11/15/2017

Benzene	46.7	1.00	ug/L	50.0		93.4	73.3-129			
Toluene	47.0	1.00	"	50.0		93.9	76.2-123			
Ethylbenzene	50.6	1.00	"	50.0		101	73.6-130			
m,p-Xylene	100	2.00	"	100		100	76.1-126			
o-Xylene	51.0	1.00	"	50.0		102	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		93.2	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.9	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

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Bob Cornez
 Project Number: 89156407
 Project: KMG - Tuttle L 17-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7K1506 - EPA 5030B (Water)

LCS (B7K1506-BS2)

Prepared: 11/15/2017 Analyzed: 11/15/2017

Benzene	44.1	1.00	ug/L	50.0		88.1	73.3-129			
Toluene	44.6	1.00	"	50.0		89.3	76.2-123			
Ethylbenzene	45.7	1.00	"	50.0		91.4	73.6-130			
m,p-Xylene	92.0	2.00	"	100		92.0	76.1-126			
o-Xylene	48.0	1.00	"	50.0		96.0	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		93.9	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	84-114			

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 Project: KMG - Tuttle L 17-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7K1506 - EPA 5030B (Water)

Matrix Spike (B7K1506-MS1)	Source: Y711212-04			Prepared: 11/15/2017 Analyzed: 11/15/2017						
Benzene	44.0	1.00	ug/L	50.0	0.700	86.6	74-130			
Toluene	44.3	1.00	"	50.0	ND	88.7	73-131			
Ethylbenzene	46.4	1.00	"	50.0	ND	92.8	76-132			
m,p-Xylene	92.5	2.00	"	100	ND	92.5	69-139			
o-Xylene	48.6	1.00	"	50.0	ND	97.1	74-131			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.6	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.7	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.0	84-114			

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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89156407
 Project: KMG - Tuttle L 17-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7K1506 - EPA 5030B (Water)

Matrix Spike (B7K1506-MS2)	Source: Y711212-09			Prepared: 11/15/2017 Analyzed: 11/15/2017						
Benzene	46.7	1.00	ug/L	50.0	ND	93.4	74-130			
Toluene	48.0	1.00	"	50.0	ND	96.0	73-131			
Ethylbenzene	49.4	1.00	"	50.0	ND	98.7	76-132			
m,p-Xylene	99.3	2.00	"	100	ND	99.3	69-139			
o-Xylene	52.1	1.00	"	50.0	ND	104	74-131			
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.6	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.9	84-114			

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Bob Cornez
 Project Number: 89156407
 Project: KMG - Tuttle L 17-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7K1506 - EPA 5030B (Water)

Matrix Spike Dup (B7K1506-MSD1)	Source: Y711212-04			Prepared: 11/15/2017 Analyzed: 11/15/2017						
Benzene	47.6	1.00	ug/L	50.0	0.700	93.8	74-130	7.77	20	
Toluene	47.5	1.00	"	50.0	ND	95.0	73-131	6.93	20	
Ethylbenzene	48.6	1.00	"	50.0	ND	97.2	76-132	4.67	20	
m,p-Xylene	97.3	2.00	"	100	ND	97.3	69-139	5.05	20	
o-Xylene	50.3	1.00	"	50.0	ND	101	74-131	3.42	20	
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.3	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		100	84-114			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7K1506 - EPA 5030B (Water)

Matrix Spike Dup (B7K1506-MSD2)	Source: Y711212-09			Prepared: 11/15/2017 Analyzed: 11/15/2017						
Benzene	47.2	1.00	ug/L	50.0	ND	94.3	74-130	1.02	20	
Toluene	48.3	1.00	"	50.0	ND	96.5	73-131	0.582	20	
Ethylbenzene	49.4	1.00	"	50.0	ND	98.8	76-132	0.122	20	
m,p-Xylene	99.0	2.00	"	100	ND	99.0	69-139	0.252	20	
o-Xylene	51.4	1.00	"	50.0	ND	103	74-131	1.29	20	
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		93.0	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.6	84-114			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89156407
Project: KMG - Tuttle L 17-6

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

January 16, 2018

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - Tuttle L 17-6

Project Number - [none]

Attached are your analytical results for KMG - Tuttle L 17-6 received by Origins Laboratory, Inc. January 10, 2018. This project is associated with Origins project number Y801140-01.

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
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Tuttle L 17-6

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01R - 1/10/18	Y801140-01	Water	January 10, 2018 11:40	01/10/2018 17:15
BH02R - 1/10/18	Y801140-02	Water	January 10, 2018 11:45	01/10/2018 17:15
BH04 - 1/10/18	Y801140-03	Water	January 10, 2018 12:05	01/10/2018 17:15
BH08 - 1/10/18	Y801140-04	Water	January 10, 2018 11:35	01/10/2018 17:15
BH09 - 1/10/18	Y801140-05	Water	January 10, 2018 11:35	01/10/2018 17:15
BH10 - 1/10/18	Y801140-06	Water	January 10, 2018 11:25	01/10/2018 17:15
BH11 - 1/10/18	Y801140-07	Water	January 10, 2018 11:55	01/10/2018 17:15
BH12 - 1/10/18	Y801140-08	Water	January 10, 2018 11:15	01/10/2018 17:15
BH13 - 1/10/18	Y801140-09	Water	January 10, 2018 11:25	01/10/2018 17:15
BH14 - 1/10/18	Y801140-10	Water	January 10, 2018 11:15	01/10/2018 17:15

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
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Tuttle L 17-6

www.originslaboratory.com

page 4 of 7

ORIGINS
 LABORATORY, INC

7801140

Client: Asplando/Tasman
 Address:
 Project Manager: Bob Cornez
 Project Name: Tuttle L 17-6
 Project Number: 8156407
 Samples Collected by: Max G. Max D

Telephone Number: 979-255-4735
 Email Address: rcornez@tasman-geo.com

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Sample #			Other
BH08-11/01/18	11/01/18	1140	3	X	X	X	X	X					
BH02R-11/01/18		1145											
BH04-11/01/18		1205											
BH08-11/01/18		1135											
BH09-11/01/18		1135											
BH10-11/01/18		1125											
BH11-11/01/18		1155											
BH12-11/01/18		1115											
BH13-11/01/18		1125											
BH14-11/01/18		1115											
Relinquished By: <u>MC</u>	Date: 11/01/18	Time: 1715	Received by: <u>[Signature]</u>	Date: 11/01/18	Time: 1715	Received by: <u>[Signature]</u>	Date: 11/01/18	Time: 1715	Turnaround Time: <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> 72 Hr <input type="checkbox"/> Standard				

Date Results Needed

S.S.

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
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Tuttle L 17-6

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y401140

Client: Tasman
 Client Project ID: KMG-Tuttle L 17-6

Checklist Completed by: JG
 Date/time completed: 1/11/13

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

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 5.8 °C 1 °C 1 °C 1 °C (Describe)
 Thermometer ID: 7003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ^{(1)?}	<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 ^{(1)?}	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ^{(1)?}	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ^{(1)?}		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ^{(1)?}	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ^{(1)?}	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ^{(1)?}	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ^{(1)?}	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ^{(1)?} (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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

⁽¹⁾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) JG

Date/Time Reviewed 1/12/13

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Tuttle L 17-6

BH01R - 1/10/18

1/10/2018 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y801140-01 (Water)

BTEX by EPA 8260C

Benzene	675	10.0	ug/L	10	B8A1202	01/12/2018	01/12/2018	
Toluene	ND	10.0	"	"	"	"	"	U
Ethylbenzene	42.2	10.0	"	"	"	"	"	
Xylenes, total	155	10.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	96.0 %	84-121			"	"	"	
Surrogate: Toluene-d8	102 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	91.9 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Tuttle L 17-6

BH02R - 1/10/18

1/10/2018 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y801140-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8A1202	01/12/2018	01/12/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	94.0 %	84-121			"	"	"	
Surrogate: Toluene-d8	104 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	91.4 %	84-114			"	"	"	

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
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Tuttle L 17-6

BH04 - 1/10/18
1/10/2018 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y801140-03 (Water)

BTEX by EPA 8260C

Benzene	4220	50.0	ug/L	50	B8A1202	01/12/2018	01/12/2018	
Toluene	ND	50.0	"	"	"	"	"	U
Ethylbenzene	130	50.0	"	"	"	"	"	
Xylenes, total	1490	50.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	93.3 %	84-121			"	"	"	
Surrogate: Toluene-d8	103 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.2 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Tuttle L 17-6

BH08 - 1/10/18

1/10/2018 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y801140-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8A1202	01/12/2018	01/12/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	96.7 %	84-121			"	"	"	
<i>Surrogate: Toluene-d8</i>	102 %	85-115			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	92.8 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Tuttle L 17-6

BH09 - 1/10/18

1/10/2018 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y801140-05 (Water)

BTEX by EPA 8260C

Benzene	2200	20.0	ug/L	20	B8A1202	01/12/2018	01/12/2018	
Toluene	ND	20.0	"	"	"	"	"	U
Ethylbenzene	57.8	20.0	"	"	"	"	"	
Xylenes, total	279	20.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	94.0 %	84-121			"	"	"	
Surrogate: Toluene-d8	103 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.3 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Tuttle L 17-6

BH10 - 1/10/18
1/10/2018 11:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y801140-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8A1202	01/12/2018	01/12/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	94.8 %	84-121			"	"	"	
Surrogate: Toluene-d8	103 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.0 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Tuttle L 17-6

BH11 - 1/10/18
1/10/2018 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y801140-07 (Water)

BTEX by EPA 8260C

Benzene	12300	100	ug/L	100	B8A1202	01/12/2018	01/12/2018	
Toluene	ND	100	"	"	"	"	"	U
Ethylbenzene	188	100	"	"	"	"	"	
Xylenes, total	6480	100	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	94.0 %	84-121			"	"	"	
Surrogate: Toluene-d8	103 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	91.1 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Tuttle L 17-6

BH12 - 1/10/18
1/10/2018 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y801140-08 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8A1202	01/12/2018	01/12/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	96.7 %	84-121			"	"	"	
Surrogate: Toluene-d8	102 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	91.4 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Tuttle L 17-6

BH13 - 1/10/18
1/10/2018 11:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y801140-09 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8A1202	01/12/2018	01/12/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	96.0 %	84-121			"	"	"	
Surrogate: Toluene-d8	103 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	91.2 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Tuttle L 17-6

BH14 - 1/10/18
1/10/2018 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y801140-10 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8A1202	01/12/2018	01/12/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	96.4 %	84-121			"	"	"	
Surrogate: Toluene-d8	103 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	90.7 %	84-114			"	"	"	

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
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Tuttle L 17-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8A1202 - EPA 5030B (Water)

Blank (B8A1202-BLK1)

Prepared: 01/12/2018 Analyzed: 01/12/2018

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5	96.8		84-121			
Surrogate: Toluene-d8	65		"	62.5	103		85-115			
Surrogate: 4-Bromofluorobenzene	58		"	62.5	93.6		84-114			

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
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Tuttle L 17-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8A1202 - EPA 5030B (Water)

LCS (B8A1202-BS1)

Prepared: 01/12/2018 Analyzed: 01/12/2018

Benzene	50.3	1.00	ug/L	50.0		101	73.3-129			
Toluene	52.4	1.00	"	50.0		105	76.2-123			
Ethylbenzene	51.8	1.00	"	50.0		104	73.6-130			
m,p-Xylene	104	2.00	"	100		104	76.1-126			
o-Xylene	53.7	1.00	"	50.0		107	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		90.1	84-121			
Surrogate: Toluene-d8	66		"	62.5		105	85-115			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.1	84-114			

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
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Tuttle L 17-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8A1202 - EPA 5030B (Water)

Matrix Spike (B8A1202-MS1)	Source: Y801140-02			Prepared: 01/12/2018 Analyzed: 01/12/2018						
Benzene	56.4	1.00	ug/L	50.0	ND	113	74-130			
Toluene	59.3	1.00	"	50.0	ND	119	73-131			
Ethylbenzene	61.0	1.00	"	50.0	ND	122	76-132			
m,p-Xylene	121	2.00	"	100	0.210	121	69-139			
o-Xylene	58.9	1.00	"	50.0	ND	118	74-131			
Surrogate: 1,2-Dichloroethane-d4	55		"	62.5		87.3	84-121			
Surrogate: Toluene-d8	65		"	62.5		105	85-115			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		93.8	84-114			

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
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Tuttle L 17-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8A1202 - EPA 5030B (Water)

Matrix Spike Dup (B8A1202-MSD1)	Source: Y801140-02			Prepared: 01/12/2018 Analyzed: 01/12/2018						
Benzene	53.3	1.00	ug/L	50.0	ND	107	74-130	5.71	20	
Toluene	56.2	1.00	"	50.0	ND	112	73-131	5.40	20	
Ethylbenzene	57.9	1.00	"	50.0	ND	116	76-132	5.31	20	
m,p-Xylene	114	2.00	"	100	0.210	114	69-139	6.35	20	
o-Xylene	55.7	1.00	"	50.0	ND	111	74-131	5.53	20	
Surrogate: 1,2-Dichloroethane-d4	54		"	62.5		86.9	84-121			
Surrogate: Toluene-d8	65		"	62.5		104	85-115			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		92.2	84-114			

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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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
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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.



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Jen Pellegrini For Noelle Doyle Mathis, President

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Jen Pellegrini For Noelle Doyle Mathis, President