



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



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

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.



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6855 West 119th Avenue
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Bob Cornez
Project Number: 90058482
Project: KMG - Tuttle L 17-6 JI

www.originslaboratory.com

90051418

ORIGINS
LABORATORY, INC

Project Manager: Robert Cornez
Project Name: TUTTLE L 17-6 JI
Project Number: 90058482
Samples Collected By: rcornez@tasman-geo.com

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

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	At Summa Container #	Other	GC/MS+N	SAR	PH		EC
B0106	1/28/20	4:08	2	✓				✓				✓	✓	✓	✓	5
N0105	1	4:10	1	✓				✓				✓	✓	✓	✓	A
S0105	1	4:12	1	✓				✓				✓	✓	✓	✓	AD
E0105	1	4:14	1	✓				✓				✓	✓	✓	✓	EA
W0105	1	4:16	1	✓				✓				✓	✓	✓	✓	Y
Relinquished By:	Date: 1/28/20	Time: 1750	Received By:	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"/> Standard <input checked="" type="checkbox"/>										
Relinquished By:	Date:	Time:	Received By:	Date:	Time:											

Date Results Needed

4/9

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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) °C

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⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? if yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Date/Time Reviewed 1/28/20

Origins Laboratory, Inc.

Jefe Pellegrini

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

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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
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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
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SAR by 20B Saturated Paste

SAR	2.48		1	[none]		01/29/2020	01/31/2020
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.106	0.00500	mmhos/cm	1	B0A2814	DJL	01/28/2020	01/28/2020
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6855 West 119th Avenue
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Project Number: 90058482
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N01@5'

1/28/2020 4:10:00PM

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



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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
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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 " " "

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Project Number: 90058482
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E01@5'
1/28/2020 4:14:00PM

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



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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
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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 " " "

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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										
Blank (B0A2815-BLK1)					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			

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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			

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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
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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			

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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 Dup (B0A2815-MSD1)		Source: Y001418-01			Prepared: 01/28/2020 Analyzed: 01/29/2020					
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			

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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			

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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			

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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
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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.

Jeze Pellegrini

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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
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Classical Chemistry Parameters - 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 B0A2813 - NO PREP

Duplicate (B0A2813-DUP1)		Source: Y001416-01			Prepared: 01/28/2020 Analyzed: 01/28/2020					
pH	7.82		pH Units		7.81			0.128	25	

Batch B0A2814 - NO PREP

Blank (B0A2814-BLK1)		Prepared: 01/28/2020 Analyzed: 01/28/2020								
Specific Conductance (EC)	0.00180	0.00500	mmhos/cm							
Duplicate (B0A2814-DUP1)		Source: Y001416-01			Prepared: 01/28/2020 Analyzed: 01/28/2020					
Specific Conductance (EC)	0.132	0.00509	mmhos/cm		0.107			20.7	25	

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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.

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