

March 09, 2017

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - Hicks Ruth Elizabeth #2

Project Number - 89249235

Attached are your analytical results for KMG - Hicks Ruth Elizabeth #2 received by Origins Laboratory, Inc. March 08, 2017. This project is associated with Origins project number Y703125-01.

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: 89249235  
Project: KMG - Hicks Ruth Elizabeth #2

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N01@10'	Y703125-01	Soil	March 8, 2017 13:30	03/08/2017 16:50
E01@10'	Y703125-02	Soil	March 8, 2017 13:35	03/08/2017 16:50
E02@10'	Y703125-03	Soil	March 8, 2017 13:40	03/08/2017 16:50
W01@10'	Y703125-04	Soil	March 8, 2017 13:45	03/08/2017 16:50
W02@10'	Y703125-05	Soil	March 8, 2017 13:50	03/08/2017 16:50
GW01	Y703125-06	Water	March 8, 2017 13:15	03/08/2017 16:50

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Bob Cornez  
 Project Number: 89249235  
 Project: KMG - Hicks Ruth Elizabeth #2

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1703125

Client: Tasman

Client Project ID: KMG: Hicks Ruth Elizabeth #2

Checklist Completed by: [Signature]

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

Date/time completed: 3-8-17 11:17

Airbill #: NA

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

Cooler Number/Temperature: 1 / 19.0 °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: 7603

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

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 3-8-17 12:18

Origins Laboratory, Inc.

*Jefe Pellegrini*

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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Bob Cornez  
 Project Number: 89249235  
 Project: KMG - Hicks Ruth Elizabeth #2

**N01@10'**  
**3/8/2017 1:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y703125-01 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7C0807	03/08/2017	03/09/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

*Surrogate: o-Terphenyl*      79.7 %      59-131      "      "      "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	<b>1.50</b>	0.200	mg/kg	1	B7C0802	03/08/2017	03/09/2017	
Benzene	<b>0.016</b>	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	<b>0.023</b>	0.002	"	"	"	"	"	
Xylenes, total	<b>0.029</b>	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4*      107 %      70-130      "      "      "

*Surrogate: Toluene-d8*      98.7 %      70-130      "      "      "

*Surrogate: 4-Bromofluorobenzene*      103 %      70-130      "      "      "

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 Project: KMG - Hicks Ruth Elizabeth #2

**E01@10'**  
**3/8/2017 1:35:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y703125-02 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	738	25.0	mg/kg	1	B7C0807	03/08/2017	03/09/2017	
Residual Range Organics (C28-C40)	133	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 89.9 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	140	5.00	mg/kg	25	B7C0802	03/08/2017	03/09/2017	
Benzene	0.052	0.050	"	"	"	"	"	
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	0.534	0.050	"	"	"	"	"	
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.8 % 70-130 " " "  
 Surrogate: Toluene-d8 128 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 98.9 % 70-130 " " "

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**E02@10'**  
**3/8/2017 1:40:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y703125-03 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7C0807	03/08/2017	03/09/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

*Surrogate: o-Terphenyl* 84.1 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	<b>19.9</b>	5.00	mg/kg	25	B7C0802	03/08/2017	03/09/2017	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

*Surrogate: 1,2-Dichloroethane-d4* 99.9 % 70-130 " " "  
*Surrogate: Toluene-d8* 101 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 97.4 % 70-130 " " "

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**W01@10'**  
**3/8/2017 1:45:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y703125-04 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	153	25.0	mg/kg	1	B7C0807	03/08/2017	03/09/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

*Surrogate: o-Terphenyl* 62.0 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	140	5.00	mg/kg	25	B7C0802	03/08/2017	03/09/2017	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

*Surrogate: 1,2-Dichloroethane-d4* 100 % 70-130 " " "  
*Surrogate: Toluene-d8* 106 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 100 % 70-130 " " "

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**W02@10'**  
**3/8/2017 1:50:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y703125-05 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	774	25.0	mg/kg	1	B7C0807	03/08/2017	03/09/2017	
Residual Range Organics (C28-C40)	125	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 100 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	51.1	5.00	mg/kg	25	B7C0802	03/08/2017	03/09/2017	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	0.184	0.050	"	"	"	"	"	
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 100 % 70-130 " " "  
 Surrogate: Toluene-d8 109 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

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**GW01**  
**3/8/2017 1:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y703125-06 (Water)**

**BTEX by EPA 8260C**

Benzene	88.3	4.00	ug/L	4	B7C0805	03/08/2017	03/09/2017	
Toluene	ND	4.00	"	"	"	"	"	U
Ethylbenzene	59.5	4.00	"	"	"	"	"	
Xylenes, total	122	4.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121			"	"	03/08/2017	
Surrogate: Toluene-d8	98.6 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.1 %	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 B7C0802 - EPA 5030 (soil)**

**Blank (B7C0802-BLK1)**

Prepared: 03/08/2017 Analyzed: 03/08/2017

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
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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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
<b>Batch B7C0802 - EPA 5030 (soil)</b>										
<b>Blank (B7C0802-BLK2)</b>										
					Prepared: 03/08/2017 Analyzed: 03/08/2017					
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
Surrogate: 1,2-Dichloroethane-d4	68		ug/kg	62.5		108	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7C0802 - EPA 5030 (soil)**

**Blank (B7C0802-BLK3)**

Prepared: 03/08/2017 Analyzed: 03/08/2017

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
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.8	70-130			

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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 B7C0802 - EPA 5030 (soil)**

**Blank (B7C0802-BLK4)**

Prepared: 03/08/2017 Analyzed: 03/08/2017

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
Surrogate: 1,2-Dichloroethane-d4	68		ug/kg	62.5		109	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	70-130			

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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 B7C0802 - EPA 5030 (soil)**

**LCS (B7C0802-BS1)**

Prepared: 03/08/2017 Analyzed: 03/08/2017

Benzene	0.115	0.002	mg/kg	0.100		115	77.1-124			
Toluene	0.114	0.002	"	0.100		114	74.5-128			
Ethylbenzene	0.110	0.002	"	0.100		110	66.4-127			
m,p-Xylene	0.229	0.004	"	0.200		114	76.6-124			
o-Xylene	0.108	0.002	"	0.100		108	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.2	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.7	70-130			

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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 B7C0802 - EPA 5030 (soil)**

**LCS (B7C0802-BS2)**

Prepared: 03/08/2017 Analyzed: 03/08/2017

Benzene	0.111	0.002	mg/kg	0.100		111	77.1-124			
Toluene	0.111	0.002	"	0.100		111	74.5-128			
Ethylbenzene	0.109	0.002	"	0.100		109	66.4-127			
m,p-Xylene	0.229	0.004	"	0.200		114	76.6-124			
o-Xylene	0.112	0.002	"	0.100		112	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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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 B7C0802 - EPA 5030 (soil)**

**LCS (B7C0802-BS3)**

Prepared: 03/08/2017 Analyzed: 03/08/2017

Benzene	0.107	0.002	mg/kg	0.100		107	77.1-124			
Toluene	0.105	0.002	"	0.100		105	74.5-128			
Ethylbenzene	0.102	0.002	"	0.100		102	66.4-127			
m,p-Xylene	0.210	0.004	"	0.200		105	76.6-124			
o-Xylene	0.105	0.002	"	0.100		105	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	68		ug/kg	62.5		108	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.2	70-130			

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**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7C0802 - EPA 5030 (soil)**

**LCS (B7C0802-BS4)**

Prepared: 03/08/2017 Analyzed: 03/08/2017

Benzene	0.106	0.002	mg/kg	0.100		106	77.1-124			
Toluene	0.103	0.002	"	0.100		103	74.5-128			
Ethylbenzene	0.101	0.002	"	0.100		101	66.4-127			
m,p-Xylene	0.210	0.004	"	0.200		105	76.6-124			
o-Xylene	0.104	0.002	"	0.100		104	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		107	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.6	70-130			

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 Project: KMG - Hicks Ruth Elizabeth #2

**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 B7C0802 - EPA 5030 (soil)

Matrix Spike (B7C0802-MS1)	Source: Y703051-01			Prepared: 03/08/2017 Analyzed: 03/08/2017						
Benzene	0.107	0.002	mg/kg	0.100	ND	107	71.8-126			
Toluene	0.107	0.002	"	0.100	ND	107	65.1-130			
Ethylbenzene	0.102	0.002	"	0.100	ND	102	62.2-130			
m,p-Xylene	0.214	0.004	"	0.200	ND	107	46.5-137			
o-Xylene	0.106	0.002	"	0.100	ND	106	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.3	70-130			

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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 B7C0802 - EPA 5030 (soil)

Matrix Spike (B7C0802-MS2)	Source: Y703051-02			Prepared: 03/08/2017 Analyzed: 03/08/2017						
Benzene	0.114	0.002	mg/kg	0.100	ND	114	71.8-126			
Toluene	0.113	0.002	"	0.100	ND	113	65.1-130			
Ethylbenzene	0.110	0.002	"	0.100	ND	110	62.2-130			
m,p-Xylene	0.229	0.004	"	0.200	ND	115	46.5-137			
o-Xylene	0.112	0.002	"	0.100	ND	112	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.3	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.6	70-130			

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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 B7C0802 - EPA 5030 (soil)

Matrix Spike (B7C0802-MS3)	Source: Y703051-03			Prepared: 03/08/2017 Analyzed: 03/09/2017						
Benzene	0.104	0.002	mg/kg	0.100	ND	104	71.8-126			
Toluene	0.104	0.002	"	0.100	ND	104	65.1-130			
Ethylbenzene	0.100	0.002	"	0.100	ND	100	62.2-130			
m,p-Xylene	0.206	0.004	"	0.200	ND	103	46.5-137			
o-Xylene	0.104	0.002	"	0.100	ND	104	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.6	70-130			

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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 B7C0802 - EPA 5030 (soil)

Matrix Spike (B7C0802-MS4)	Source: Y703130-01			Prepared: 03/08/2017 Analyzed: 03/09/2017						
Benzene	0.105	0.002	mg/kg	0.100	ND	105	71.8-126			
Toluene	0.102	0.002	"	0.100	ND	102	65.1-130			
Ethylbenzene	0.097	0.002	"	0.100	ND	96.5	62.2-130			
m,p-Xylene	0.199	0.004	"	0.200	ND	99.7	46.5-137			
o-Xylene	0.101	0.002	"	0.100	ND	101	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	68		ug/kg	62.5		109	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.7	70-130			

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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 B7C0802 - EPA 5030 (soil)

Matrix Spike Dup (B7C0802-MSD1)	Source: Y703051-01			Prepared: 03/08/2017 Analyzed: 03/08/2017						
Benzene	0.114	0.002	mg/kg	0.100	ND	114	71.8-126	6.92	11.3	
Toluene	0.114	0.002	"	0.100	ND	114	65.1-130	7.02	15.4	
Ethylbenzene	0.111	0.002	"	0.100	ND	111	62.2-130	7.64	19.6	
m,p-Xylene	0.231	0.004	"	0.200	ND	116	46.5-137	7.67	19.2	
o-Xylene	0.115	0.002	"	0.100	ND	115	54.2-134	7.74	17.9	
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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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 B7C0802 - EPA 5030 (soil)

Matrix Spike Dup (B7C0802-MSD2)	Source: Y703051-02			Prepared: 03/08/2017 Analyzed: 03/08/2017						
Benzene	0.104	0.002	mg/kg	0.100	ND	104	71.8-126	9.69	11.3	
Toluene	0.105	0.002	"	0.100	ND	105	65.1-130	7.31	15.4	
Ethylbenzene	0.100	0.002	"	0.100	ND	100	62.2-130	9.38	19.6	
m,p-Xylene	0.205	0.004	"	0.200	ND	103	46.5-137	11.0	19.2	
o-Xylene	0.101	0.002	"	0.100	ND	101	54.2-134	10.1	17.9	
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.9	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7C0802 - EPA 5030 (soil)

Matrix Spike Dup (B7C0802-MSD3)	Source: Y703051-03			Prepared: 03/08/2017 Analyzed: 03/09/2017						
Benzene	0.112	0.002	mg/kg	0.100	ND	112	71.8-126	7.32	11.3	
Toluene	0.111	0.002	"	0.100	ND	111	65.1-130	6.88	15.4	
Ethylbenzene	0.107	0.002	"	0.100	ND	107	62.2-130	6.70	19.6	
m,p-Xylene	0.225	0.004	"	0.200	ND	112	46.5-137	8.83	19.2	
o-Xylene	0.111	0.002	"	0.100	ND	111	54.2-134	7.13	17.9	
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		95.0	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		100	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7C0802 - EPA 5030 (soil)

Matrix Spike Dup (B7C0802-MSD4)	Source: Y703130-01			Prepared: 03/08/2017 Analyzed: 03/09/2017						
Benzene	0.103	0.002	mg/kg	0.100	ND	103	71.8-126	2.04	11.3	
Toluene	0.103	0.002	"	0.100	ND	103	65.1-130	0.960	15.4	
Ethylbenzene	0.095	0.002	"	0.100	ND	95.3	62.2-130	1.29	19.6	
m,p-Xylene	0.196	0.004	"	0.200	ND	98.2	46.5-137	1.46	19.2	
o-Xylene	0.099	0.002	"	0.100	ND	98.8	54.2-134	2.60	17.9	
Surrogate: 1,2-Dichloroethane-d4	68		ug/kg	62.5		108	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.2	70-130			

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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 B7C0805 - EPA 5030B (Water)**

**Blank (B7C0805-BLK1)**

Prepared: 03/08/2017 Analyzed: 03/08/2017

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	66		"	62.5	106		84-121			
Surrogate: Toluene-d8	63		"	62.5	101		85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5	103		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 B7C0805 - EPA 5030B (Water)

**LCS (B7C0805-BS1)**

Prepared: 03/08/2017 Analyzed: 03/08/2017

Benzene	52.5	1.00	ug/L	50.0		105	73.3-129			
Toluene	55.2	1.00	"	50.0		110	76.2-123			
Ethylbenzene	54.8	1.00	"	50.0		110	73.6-130			
m,p-Xylene	110	2.00	"	100		110	76.1-126			
o-Xylene	54.8	1.00	"	50.0		110	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	84-121			
Surrogate: Toluene-d8	66		"	62.5		106	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	84-114			

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**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7C0805 - EPA 5030B (Water)**

<b>Matrix Spike (B7C0805-MS1)</b>	<b>Source: Y703084-02</b>			<b>Prepared: 03/08/2017 Analyzed: 03/08/2017</b>						
Benzene	64.6	1.00	ug/L	50.0	ND	129	74-130			
Toluene	62.7	1.00	"	50.0	ND	125	73-131			
Ethylbenzene	66.5	1.00	"	50.0	0.220	132	76-132			
m,p-Xylene	130	2.00	"	100	ND	130	69-139			
o-Xylene	64.8	1.00	"	50.0	ND	130	74-131			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.4	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	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 B7C0805 - EPA 5030B (Water)**

Matrix Spike Dup (B7C0805-MSD1)	Source: Y703084-02			Prepared: 03/08/2017 Analyzed: 03/08/2017						
Benzene	55.0	1.00	ug/L	50.0	ND	110	74-130	16.1	20	
Toluene	50.4	1.00	"	50.0	ND	101	73-131	21.9	20	QR-02
Ethylbenzene	52.8	1.00	"	50.0	0.220	105	76-132	22.8	20	QR-02
m,p-Xylene	104	2.00	"	100	ND	104	69-139	22.2	20	QR-02
o-Xylene	52.8	1.00	"	50.0	ND	106	74-131	20.3	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	69		"	62.5		110	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.6	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	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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**Extractable Petroleum Hydrocarbons by 8015C - 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 B7C0807 - EPA 3550B**

**Blank (B7C0807-BLK1)**

Prepared: 03/08/2017 Analyzed: 03/08/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	53		"	50.0		106	59-131			

**Blank (B7C0807-BLK2)**

Prepared: 03/08/2017 Analyzed: 03/08/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	49		"	50.0		98.9	59-131			

**Blank (B7C0807-BLK3)**

Prepared: 03/08/2017 Analyzed: 03/08/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	44		"	50.0		87.0	59-131			

**LCS (B7C0807-BS1)**

Prepared: 03/08/2017 Analyzed: 03/08/2017

Diesel (C10-C28)	983	50.0	mg/kg	1000		98.3	64-121			
Residual Range Organics (C28-C40)	1000	200	"	1000		100	58-124			
Surrogate: o-Terphenyl	49		"	50.0		97.4	59-131			

**LCS (B7C0807-BS2)**

Prepared: 03/08/2017 Analyzed: 03/08/2017

Diesel (C10-C28)	961	50.0	mg/kg	1000		96.1	64-121			
Residual Range Organics (C28-C40)	968	200	"	1000		96.8	58-124			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B7C0807 - EPA 3550B</b>										
<b>LCS (B7C0807-BS2)</b>					Prepared: 03/08/2017 Analyzed: 03/08/2017					
Surrogate: o-Terphenyl	49		mg/kg	50.0		97.9	59-131			
<b>LCS (B7C0807-BS3)</b>					Prepared: 03/08/2017 Analyzed: 03/08/2017					
Diesel (C10-C28)	959	50.0	mg/kg	1000		95.9	64-121			
Residual Range Organics (C28-C40)	964	200	"	1000		96.4	58-124			
Surrogate: o-Terphenyl	49		"	50.0		98.7	59-131			
<b>Matrix Spike (B7C0807-MS1)</b>			<b>Source: Y703121-01</b>		Prepared: 03/08/2017 Analyzed: 03/08/2017					
Diesel (C10-C28)	925	50.0	mg/kg	1000	19.7	90.6	53-125			
Residual Range Organics (C28-C40)	991	200	"	1000	ND	99.1	47-133			
Surrogate: o-Terphenyl	46		"	50.0		92.7	59-131			
<b>Matrix Spike (B7C0807-MS2)</b>			<b>Source: Y703121-02</b>		Prepared: 03/08/2017 Analyzed: 03/08/2017					
Diesel (C10-C28)	943	50.0	mg/kg	1000	25.8	91.8	53-125			
Residual Range Organics (C28-C40)	988	200	"	1000	ND	98.8	47-133			
Surrogate: o-Terphenyl	48		"	50.0		95.2	59-131			
<b>Matrix Spike (B7C0807-MS3)</b>			<b>Source: Y703121-03</b>		Prepared: 03/08/2017 Analyzed: 03/08/2017					
Diesel (C10-C28)	920	50.0	mg/kg	1000	21.4	89.9	53-125			
Residual Range Organics (C28-C40)	1160	200	"	1000	ND	116	47-133			
Surrogate: o-Terphenyl	110		"	100		107	59-131			
<b>Matrix Spike Dup (B7C0807-MSD1)</b>			<b>Source: Y703121-01</b>		Prepared: 03/08/2017 Analyzed: 03/08/2017					
Diesel (C10-C28)	893	50.0	mg/kg	1000	19.7	87.4	53-125	3.59	20	
Residual Range Organics (C28-C40)	946	200	"	1000	ND	94.6	47-133	4.64	20	
Surrogate: o-Terphenyl	48		"	50.0		96.3	59-131			
<b>Matrix Spike Dup (B7C0807-MSD2)</b>			<b>Source: Y703121-02</b>		Prepared: 03/08/2017 Analyzed: 03/08/2017					

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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Bob Cornez  
 Project Number: 89249235  
 Project: KMG - Hicks Ruth Elizabeth #2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B7C0807 - EPA 3550B</b>										
<b>Matrix Spike Dup (B7C0807-MSD2)</b>			<b>Source: Y703121-02</b>			Prepared: 03/08/2017 Analyzed: 03/08/2017				
Diesel (C10-C28)	941	50.0	mg/kg	1000	25.8	91.6	53-125	0.224	20	
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	47-133	2.04	20	
Surrogate: o-Terphenyl	47		"	50.0		93.7	59-131			
<b>Matrix Spike Dup (B7C0807-MSD3)</b>			<b>Source: Y703121-03</b>			Prepared: 03/08/2017 Analyzed: 03/08/2017				
Diesel (C10-C28)	879	50.0	mg/kg	1000	21.4	85.8	53-125	4.71	20	
Residual Range Organics (C28-C40)	1080	200	"	1000	ND	108	47-133	6.98	20	
Surrogate: o-Terphenyl	54		"	50.0		108	59-131			

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### Notes and Definitions

U Sample is Non-Detect.

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.

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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Jen Pellegrini For Noelle Doyle Mathis, President