

January 23, 2019

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

**Project Name - KMG - Kern L 4-14****Project Number - [none]**

Attached are your analytical results for KMG - Kern L 4-14 received by Origins Laboratory, Inc. January 22, 2019. This project is associated with Origins project number Y901282-01.

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 - Kern L 4-14

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N01@3.5'	Y901282-01	Soil	January 22, 2019 15:10	01/22/2019 17:51
S01@3.5'	Y901282-02	Soil	January 22, 2019 15:15	01/22/2019 17:51
E01@3.5'	Y901282-03	Soil	January 22, 2019 15:20	01/22/2019 17:51
W01@3.5'	Y901282-04	Soil	January 22, 2019 15:25	01/22/2019 17:51
GW01	Y901282-06	Water	January 22, 2019 15:35	01/22/2019 17:51

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Kern L 4-14

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page 1 of 1

7901282

# ORIGINS

LABORATORY, INC

Client: APC/Tasman Geosciences  
Address: 6899 Pecos Street, Denver, CO  
Telephone Number: 970-927-0393  
Email Address: RCornez@tasman-geo.com

Project Manager: Robert Cornez  
Project Name: Kern L 4-14  
Project Number:  
Samples Collected By: Zander Hamilton

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #		
N0 @ 3.5'	1/22/14	3:10	1	X				X			X	1
S0 @ 3.5'		3:15	1					X			X	2
E0 @ 3.5'		3:20	1					X			X	3
W0 @ 3.5'		3:25	1					X			X	4
BG01 @ 6"		3:27	1					X				5
GW01		3:35	3	X							X	6
												7
												8
												9
												10

  

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
Bob Cornez	1/22/14	17:51	Zander Hamilton	01-22-14	18:15	Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>

Date Results Needed

Origins Laboratory, Inc.

Jefe Pellegrini

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Kern L 4-14

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 7901232

Client: Tasman

Client Project ID: KMG - Kern L 4-14

Checklist Completed by: Dan Lee

Shipped Via: 452

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

Date/time completed: 1-22-12

Airbill #: NA

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

Cooler Number/Temperature: 1 / 3.2 °C 1 / \_\_\_\_\_ °C 1 / \_\_\_\_\_ °C 1 / \_\_\_\_\_ °C (Describe)

Thermometer ID: 603

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"/>	<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input type="checkbox"/>	<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]

1-22-12  
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Kern L 4-14

N01@3.5'  
1/22/2019 3:10:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y901282-01 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9A2202	KDK	01/22/2019	01/22/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 87.2 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9A2201	KDK	"	01/22/2019	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 100 % 70-130 " " "  
Surrogate: Toluene-d8 98.7 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

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Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Kern L 4-14

S01@3.5'  
1/22/2019 3:15:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y901282-02 (Soil)

## DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9A2202	KDK	01/22/2019	01/22/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 80.3 % 59-131 " " "

## GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	99.1	50.0	mg/kg	250	B9A2201	KDK	"	01/22/2019	
Benzene	ND	0.050	"	25	"	KDK	"	01/22/2019	U
Toluene	0.454	0.050	"	"	"	KDK	"	"	
Ethylbenzene	0.126	0.050	"	"	"	KDK	"	"	
Xylenes, total	2.10	0.050	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4 97.2 % 70-130 " " "

Surrogate: Toluene-d8 96.4 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 108 % 70-130 " " "

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Kern L 4-14

E01@3.5'  
1/22/2019 3:20:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y901282-03 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	191	25.0	mg/kg	1	B9A2202	KDK	01/22/2019	01/22/2019	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 85.6 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	2960	50.0	mg/kg	250	B9A2201	KDK	"	01/22/2019
Benzene	3.80	0.498	"	"	"	KDK	"	"
Toluene	81.6	0.498	"	"	"	KDK	"	"
Ethylbenzene	10.6	0.498	"	"	"	KDK	"	"
Xylenes, total	158	0.498	"	"	"	KDK	"	"

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "  
Surrogate: Toluene-d8 93.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 96.9 % 70-130 " " "

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Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Kern L 4-14

W01@3.5'  
1/22/2019 3:25:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y901282-04 (Soil)

## DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9A2202	KDK	01/22/2019	01/22/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 79.6 % 59-131 " " "

## GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	5.70	5.00	mg/kg	25	B9A2201	KDK	"	01/22/2019	
Benzene	ND	0.050	"	"	"	KDK	"	01/22/2019	U
Toluene	0.091	0.050	"	"	"	KDK	"	"	
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	0.362	0.050	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4 88.8 % 70-130 " " "

Surrogate: Toluene-d8 98.3 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 96.2 % 70-130 " " "

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Bob Cornez  
Project Number: [none]  
Project: KMG - Kern L 4-14

GW01

1/22/2019 3:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y901282-06 (Water)

BTEX by EPA 8260C

Benzene	17.6	4.00	ug/L	4	B9A2208	KDK	01/22/2019	01/22/2019
Toluene	36.2	4.00	"	"	"	KDK	"	"
Ethylbenzene	17.6	4.00	"	"	"	KDK	"	"
Xylenes, total	246	4.00	"	"	"	KDK	"	"

Surrogate: 1,2-Dichloroethane-d4	117 %	84-121	"	"	"
Surrogate: Toluene-d8	93.5 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	84-114	"	"	"

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Kern L 4-14

**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 B9A2201 - EPA 5030 (soil)</b>										
<b>Blank (B9A2201-BLK1)</b>					Prepared: 01/22/2019 Analyzed: 01/22/2019					
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	0.12		"	0.125		92.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.6	70-130			

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Project: KMG - Kern L 4-14

**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 B9A2201 - EPA 5030 (soil)</b>										
<b>LCS (B9A2201-BS1)</b>					Prepared: 01/22/2019 Analyzed: 01/22/2019					
Benzene	0.107	0.002	mg/kg	0.100		107	77.1-124			
Toluene	0.104	0.002	"	0.100		104	74.5-128			
Ethylbenzene	0.108	0.002	"	0.100		108	66.4-127			
m,p-Xylene	0.216	0.004	"	0.200		108	76.6-124			
o-Xylene	0.108	0.002	"	0.100		108	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Kern L 4-14

**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 B9A2201 - EPA 5030 (soil)**

Matrix Spike (B9A2201-MS1)		Source: Y901261-01			Prepared: 01/22/2019 Analyzed: 01/22/2019					
Benzene	0.106	0.002	mg/kg	0.100	ND	106	71.8-126			
Toluene	0.101	0.002	"	0.100	ND	101	65.1-130			
Ethylbenzene	0.104	0.002	"	0.100	ND	104	62.2-130			
m,p-Xylene	0.210	0.004	"	0.200	0.001	104	46.5-137			
o-Xylene	0.106	0.002	"	0.100	0.0005	105	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		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 B9A2201 - EPA 5030 (soil)**

Matrix Spike Dup (B9A2201-MSD1)		Source: Y901261-01			Prepared: 01/22/2019 Analyzed: 01/22/2019					
Benzene	0.112	0.002	mg/kg	0.100	ND	112	71.8-126	5.26	11.3	
Toluene	0.106	0.002	"	0.100	ND	106	65.1-130	4.81	15.4	
Ethylbenzene	0.109	0.002	"	0.100	ND	109	62.2-130	5.28	19.6	
m,p-Xylene	0.220	0.004	"	0.200	0.001	109	46.5-137	4.97	19.2	
o-Xylene	0.111	0.002	"	0.100	0.0005	110	54.2-134	4.76	17.9	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Kern L 4-14

**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 B9A2208 - EPA 5030B (Water)</b>										
<b>Blank (B9A2208-BLK1)</b>					Prepared: 01/22/2019 Analyzed: 01/22/2019					
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	70		"	62.5		111	84-121			
Surrogate: Toluene-d8	59		"	62.5		94.5	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.7	84-114			

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Kern L 4-14

**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 B9A2208 - EPA 5030B (Water)**

**LCS (B9A2208-BS1)**

Prepared: 01/22/2019 Analyzed: 01/22/2019

Benzene	54.2	1.00	ug/L	50.0		108	73.3-129			
Toluene	50.0	1.00	"	50.0		100	76.2-123			
Ethylbenzene	48.1	1.00	"	50.0		96.1	73.6-130			
m,p-Xylene	99.5	2.00	"	100		99.5	76.1-126			
o-Xylene	48.2	1.00	"	50.0		96.4	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		105	84-121			
Surrogate: Toluene-d8	59		"	62.5		94.8	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.4	84-114			

Origins Laboratory, Inc.



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Project Number: [none]  
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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 B9A2208 - EPA 5030B (Water)**

Matrix Spike (B9A2208-MS1)		Source: Y901274-01			Prepared: 01/22/2019 Analyzed: 01/22/2019					
Benzene	52.8	1.00	ug/L	50.0	ND	106	74-130			
Toluene	50.4	1.00	"	50.0	0.170	101	73-131			
Ethylbenzene	53.2	1.00	"	50.0	0.480	105	76-132			
m,p-Xylene	109	2.00	"	100	1.16	108	69-139			
o-Xylene	50.8	1.00	"	50.0	0.640	100	74-131			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		98.2	84-121			
Surrogate: Toluene-d8	61		"	62.5		98.3	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: [none]  
Project: KMG - Kern L 4-14

**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 B9A2208 - EPA 5030B (Water)**

Matrix Spike Dup (B9A2208-MSD1)		Source: Y901274-01			Prepared: 01/22/2019 Analyzed: 01/22/2019					
Benzene	50.8	1.00	ug/L	50.0	ND	102	74-130	3.77	20	
Toluene	48.6	1.00	"	50.0	0.170	96.8	73-131	3.74	20	
Ethylbenzene	49.9	1.00	"	50.0	0.480	98.8	76-132	6.52	20	
m,p-Xylene	103	2.00	"	100	1.16	102	69-139	5.25	20	
o-Xylene	48.8	1.00	"	50.0	0.640	96.3	74-131	3.94	20	
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	84-121			
Surrogate: Toluene-d8	61		"	62.5		97.0	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	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 - Kern L 4-14

## 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 B9A2202 - EPA 3550B

##### Blank (B9A2202-BLK1)

Prepared: 01/22/2019 Analyzed: 01/22/2019

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	46		"	50.0		91.1	59-131			

##### LCS (B9A2202-BS1)

Prepared: 01/22/2019 Analyzed: 01/22/2019

Diesel (C10-C28)	831	50.0	mg/kg	1000		83.1	64-121			
Residual Range Organics (C28-C40)	824	200	"	1000		82.4	58-124			
Surrogate: o-Terphenyl	42		"	50.0		84.9	59-131			

##### Matrix Spike (B9A2202-MS1)

Source: Y901261-01

Prepared: 01/22/2019 Analyzed: 01/22/2019

Diesel (C10-C28)	905	50.0	mg/kg	1000	ND	90.5	53-125			
Residual Range Organics (C28-C40)	916	200	"	1000	12.1	90.4	47-133			
Surrogate: o-Terphenyl	45		"	50.0		89.3	59-131			

##### Matrix Spike Dup (B9A2202-MSD1)

Source: Y901261-01

Prepared: 01/22/2019 Analyzed: 01/22/2019

Diesel (C10-C28)	988	50.0	mg/kg	1000	ND	98.8	53-125	8.75	20	
Residual Range Organics (C28-C40)	980	200	"	1000	12.1	96.8	47-133	6.82	20	
Surrogate: o-Terphenyl	52		"	50.0		103	59-131			

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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Kern L 4-14

### 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