

September 18, 2017

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

**Project Name - KMG - 16-80-40-4" Line Release**

**Project Number - 89334975**

Attached are your analytical results for KMG - 16-80-40-4" Line Release received by Origins Laboratory, Inc. July 03, 2017. This project is associated with Origins project number Y707029-01.

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: 89334975  
Project: KMG - 16-80-40-4" Line Release

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01	Y707029-01	Soil	July 3, 2017 14:07	07/03/2017 18:45
SS02	Y707029-02	Soil	July 3, 2017 14:10	07/03/2017 18:45
SS03	Y707029-03	Soil	July 3, 2017 14:11	07/03/2017 18:45
SS04	Y707029-04	Soil	July 3, 2017 14:12	07/03/2017 18:45
SS05	Y707029-05	Soil	July 3, 2017 14:14	07/03/2017 18:45
SS06	Y707029-06	Soil	July 3, 2017 14:15	07/03/2017 18:45
SS07	Y707029-07	Soil	July 3, 2017 14:16	07/03/2017 18:45
SS08	Y707029-08	Soil	July 3, 2017 14:18	07/03/2017 18:45
SS09	Y707029-09	Soil	July 3, 2017 14:19	07/03/2017 18:45
SS10	Y707029-10	Soil	July 3, 2017 14:20	07/03/2017 18:45
SS11	Y707029-11	Soil	July 3, 2017 14:22	07/03/2017 18:45
SS12	Y707029-12	Soil	July 3, 2017 14:24	07/03/2017 18:45
SS13	Y707029-13	Soil	July 3, 2017 14:26	07/03/2017 18:45
SS14	Y707029-14	Soil	July 3, 2017 14:27	07/03/2017 18:45

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Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**CROSS REFERENCE REPORT**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS15	Y707029-15	Soil	July 3, 2017 14:28	07/03/2017 18:45
SS16	Y707029-16	Soil	July 3, 2017 14:29	07/03/2017 18:45
SS17	Y707029-17	Soil	July 3, 2017 14:30	07/03/2017 18:45
SS18	Y707029-18	Soil	July 3, 2017 14:31	07/03/2017 18:45
SS19	Y707029-19	Soil	July 3, 2017 14:32	07/03/2017 18:45
SS20	Y707029-20	Soil	July 3, 2017 14:33	07/03/2017 18:45
SS21	Y707029-21	Soil	July 3, 2017 14:34	07/03/2017 18:45
SS22	Y707029-22	Soil	July 3, 2017 14:36	07/03/2017 18:45
SS23	Y707029-23	Soil	July 3, 2017 14:37	07/03/2017 18:45
SS24	Y707029-24	Soil	July 3, 2017 14:38	07/03/2017 18:45
SS25	Y707029-25	Soil	July 3, 2017 14:40	07/03/2017 18:45
SS26	Y707029-26	Soil	July 3, 2017 14:42	07/03/2017 18:45
SS27	Y707029-27	Soil	July 3, 2017 14:43	07/03/2017 18:45
SS28	Y707029-28	Soil	July 3, 2017 14:44	07/03/2017 18:45

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**CROSS REFERENCE REPORT**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS29	Y707029-29	Soil	July 3, 2017 14:46	07/03/2017 18:45
SS30	Y707029-30	Soil	July 3, 2017 14:48	07/03/2017 18:45
SS31	Y707029-31	Soil	July 3, 2017 14:49	07/03/2017 18:45
SS32	Y707029-32	Soil	July 3, 2017 14:50	07/03/2017 18:45
SS33	Y707029-33	Soil	July 3, 2017 14:52	07/03/2017 18:45
SS34	Y707029-34	Soil	July 3, 2017 14:54	07/03/2017 18:45
SS35	Y707029-35	Soil	July 3, 2017 14:56	07/03/2017 18:45
SS36	Y707029-36	Soil	July 3, 2017 14:58	07/03/2017 18:45
SS37	Y707029-37	Soil	July 3, 2017 15:00	07/03/2017 18:45
SS38	Y707029-38	Soil	July 3, 2017 15:01	07/03/2017 18:45
SS39	Y707029-39	Soil	July 3, 2017 15:02	07/03/2017 18:45
SS40	Y707029-40	Soil	July 3, 2017 15:03	07/03/2017 18:45
SS41	Y707029-41	Soil	July 3, 2017 15:04	07/03/2017 18:45
SS42	Y707029-42	Soil	July 3, 2017 15:05	07/03/2017 18:45

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### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS43	Y707029-43	Soil	July 3, 2017 15:06	07/03/2017 18:45
SS44	Y707029-44	Soil	July 3, 2017 15:07	07/03/2017 18:45
SS45	Y707029-45	Soil	July 3, 2017 15:08	07/03/2017 18:45
SS46	Y707029-46	Soil	July 3, 2017 15:09	07/03/2017 18:45
SS47	Y707029-47	Soil	July 3, 2017 15:11	07/03/2017 18:45
SS48	Y707029-48	Soil	July 3, 2017 15:12	07/03/2017 18:45
SS49	Y707029-49	Soil	July 3, 2017 15:14	07/03/2017 18:45
SS50	Y707029-50	Soil	July 3, 2017 15:16	07/03/2017 18:45
SS51	Y707029-51	Soil	July 3, 2017 15:18	07/03/2017 18:45
SS52	Y707029-52	Soil	July 3, 2017 15:20	07/03/2017 18:45
SS53	Y707029-53	Soil	July 3, 2017 15:22	07/03/2017 18:45
SS54	Y707029-54	Soil	July 3, 2017 15:23	07/03/2017 18:45
SS55	Y707029-55	Soil	July 3, 2017 15:25	07/03/2017 18:45
SS56	Y707029-56	Soil	July 3, 2017 15:27	07/03/2017 18:45

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### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS57	Y707029-57	Soil	July 3, 2017 15:30	07/03/2017 18:45
SS58	Y707029-58	Soil	July 3, 2017 15:32	07/03/2017 18:45
SS59	Y707029-59	Soil	July 3, 2017 15:34	07/03/2017 18:45
SS60	Y707029-60	Soil	July 3, 2017 15:35	07/03/2017 18:45
SS61	Y707029-61	Soil	July 3, 2017 15:37	07/03/2017 18:45
SS62	Y707029-62	Soil	July 3, 2017 15:39	07/03/2017 18:45
SS63	Y707029-63	Soil	July 3, 2017 15:41	07/03/2017 18:45
SS64	Y707029-64	Soil	July 3, 2017 15:42	07/03/2017 18:45
SS65	Y707029-65	Soil	July 3, 2017 15:44	07/03/2017 18:45
SS66	Y707029-66	Soil	July 3, 2017 15:46	07/03/2017 18:45
SS67	Y707029-67	Soil	July 3, 2017 15:48	07/03/2017 18:45
SS68	Y707029-68	Soil	July 3, 2017 15:50	07/03/2017 18:45
SS69	Y707029-69	Soil	July 3, 2017 15:52	07/03/2017 18:45
SS70	Y707029-70	Soil	July 3, 2017 15:54	07/03/2017 18:45

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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS71	Y707029-71	Soil	July 3, 2017 15:56	07/03/2017 18:45
SS72	Y707029-72	Soil	July 3, 2017 15:58	07/03/2017 18:45
SS73	Y707029-73	Soil	July 3, 2017 16:00	07/03/2017 18:45
SS74	Y707029-74	Soil	July 3, 2017 16:02	07/03/2017 18:45
SS75	Y707029-75	Soil	July 3, 2017 16:04	07/03/2017 18:45
SS76	Y707029-76	Soil	July 3, 2017 16:06	07/03/2017 18:45
SS77	Y707029-77	Soil	July 3, 2017 16:08	07/03/2017 18:45
SS78	Y707029-78	Soil	July 3, 2017 16:10	07/03/2017 18:45
SS79	Y707029-79	Soil	July 3, 2017 16:11	07/03/2017 18:45
SS80	Y707029-80	Soil	July 3, 2017 16:13	07/03/2017 18:45
SS81	Y707029-81	Soil	July 3, 2017 16:15	07/03/2017 18:45
SS82	Y707029-82	Soil	July 3, 2017 16:17	07/03/2017 18:45
SS83	Y707029-83	Soil	July 3, 2017 16:18	07/03/2017 18:45
SS84	Y707029-84	Soil	July 3, 2017 16:20	07/03/2017 18:45

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### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS85	Y707029-85	Soil	July 3, 2017 16:21	07/03/2017 18:45
SS86	Y707029-86	Soil	July 3, 2017 16:22	07/03/2017 18:45
SS87	Y707029-87	Soil	July 3, 2017 16:24	07/03/2017 18:45
SS88	Y707029-88	Soil	July 3, 2017 16:26	07/03/2017 18:45
SS89	Y707029-89	Soil	July 3, 2017 16:28	07/03/2017 18:45
SS90	Y707029-90	Soil	July 3, 2017 16:30	07/03/2017 18:45
SS91	Y707029-91	Soil	July 3, 2017 16:31	07/03/2017 18:45
SS92	Y707029-92	Soil	July 3, 2017 16:32	07/03/2017 18:45
SS93	Y707029-93	Soil	July 3, 2017 16:34	07/03/2017 18:45
SS94	Y707029-94	Soil	July 3, 2017 16:35	07/03/2017 18:45
SS95	Y707029-95	Soil	July 3, 2017 16:36	07/03/2017 18:45
SS96	Y707029-96	Soil	July 3, 2017 16:38	07/03/2017 18:45
SS97	Y707029-97	Soil	July 3, 2017 16:39	07/03/2017 18:45
SS98	Y707029-98	Soil	July 3, 2017 16:40	07/03/2017 18:45

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## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS99	Y707029-99	Soil	July 3, 2017 16:41	07/03/2017 18:45
SS100	Y707029-AA	Soil	July 3, 2017 16:43	07/03/2017 18:45
SS101	Y707029-AB	Soil	July 3, 2017 16:45	07/03/2017 18:45
SS102	Y707029-AC	Soil	July 3, 2017 16:47	07/03/2017 18:45
SS103	Y707029-AD	Soil	July 3, 2017 16:48	07/03/2017 18:45
SS104	Y707029-AE	Soil	July 3, 2017 16:50	07/03/2017 18:45

Per the email from Eric Siegel on 9/18/17, the project name has been changed to 16-80-40-4" Line Release.

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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

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1707029

Client: APC  
Address: \_\_\_\_\_  
Telephone Number: \_\_\_\_\_  
Email Address: robert@tasman-geo.com

Project Manager: Robert Cornez  
Project Name: 13-897-8" Condensate Line  
Project Number: 42101067  
Samples Collected By: Eric Sigel

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis		Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	As Summa	Other	
SS01	7/31/17	1407	1	X				X				
SS02	7/31/17	1410	1									
SS03	7/31/17	1411	1									
SS04	7/31/17	1412	1									
SS05	7/31/17	1414	1									
SS06	7/31/17	1415	1									
SS07	7/31/17	1416	1									
SS08	7/31/17	1418	1									
SS09	7/31/17	1419	1									
SS10	7/31/17	1420	1									
Relinquished By: <u>G. A. Hurd</u>	Date: <u>7/31/17</u>	Time: <u>1845</u>	Time: <u>1845</u>	Time: <u>1845</u>	Time: <u>1845</u>	Time: <u>1845</u>	Time: <u>1845</u>	Time: <u>1845</u>	Time: <u>1845</u>	Time: <u>1845</u>	Time: <u>1845</u>	Time: <u>1845</u>
Relinquished By: _____	Date: _____	Time: _____	Time: _____	Time: _____	Time: _____	Time: _____	Time: _____	Time: _____	Time: _____	Time: _____	Time: _____	Time: _____

Turnaround Time: ☒ Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard

Temp Received: 1.5°C Date Results Needed: \_\_\_\_\_

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

Origins Laboratory, Inc.

*Jefe Pellegrini*

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Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

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701029

Client: APC

Project Manager: Robert Cornez

Project Name: 13-897-8" Condensate Line

Project Number: 42101067

Samples Collected By: E3

Telephone Number: \_\_\_\_\_

Email Address: \_\_\_\_\_

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 #	Other	GC/MS	
SS11	7/3/17	1422	1	X					X				1
SS12		1424	1										2
SS13		1426	1										3
SS14		1427	1										4
SS15		1428	1										5
SS16		1429	1										6
SS17		1430	1										7
SS18		1431	1										8
SS19		1432	1										9
SS20		1433	1										10

Relinquished By: G. A. Hill

Relinquished By: \_\_\_\_\_

Date: 7/3/17

Date: \_\_\_\_\_

Time: 1415

Time: \_\_\_\_\_

Received By: \_\_\_\_\_

Received By: \_\_\_\_\_

Date: 7/3/17

Date: \_\_\_\_\_

Time: 1615

Time: \_\_\_\_\_

Turnaround Time: Same Day ☒ 24 Hr ☐ 48 Hr ☐ Standard ☐

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Phone: 303.433.1322

Fax: 303.265.9645



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Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

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7707029

Client: APC

Project Manager: Robert Cornez

Project Name: 13-897-8" Condensate Line

Project Number: 4201067

Samples Collected By: ES

Telephone Number:

Email Address:

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 #	Other	4200	
5521	7/3/17	1434	1	X				X					1
5522		1436	1										2
5523		1437	1										3
5524		1438	1										4
5525		1440	1										5
5526		1442	1										6
5527		1443	1										7
5528		1444	1										8
5529		1446	1										9
5530		1448	1										10
Relinquished By: G.A. Pellegrini	Date: 7/3/17	Time: 1645		Received By: [Signature]	Date: 7-3-17	Time: 1845		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 type="checkbox"/>					

Temp Received: 1.0°C Date Results Needed

Origins Laboratory, Inc.

Jefe Pellegrini

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Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

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1707029

Client: APC

Project Manager: Robert Cornez

Project Name: 13-897-8" Condensate Line

Project Number: 42101067

Samples Collected By: ES

Telephone Number: \_\_\_\_\_

Email Address: \_\_\_\_\_

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Ar Summa Container #	Other	8260		8270
5531	7/3/17	1449	1	X					X					
5532		1450	1						X					
5533		1452	1											
5534		1454	1											
5535		1456	1											
5536		1458	1											
5537		1500	1											
5538		1501	1											
5539		1502	1											
5540		1503	1											

Relinquished By: G. A. Boyd

Relinquished By: \_\_\_\_\_

Date: 7/3/17

Date: \_\_\_\_\_

Time: 845

Time: \_\_\_\_\_

Received By: [Signature]

Received By: \_\_\_\_\_

Date: 7-3-17

Date: \_\_\_\_\_

Time: 1645

Time: \_\_\_\_\_

Turnaround Time: ☒ Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard

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Fax: 303.265.9645

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1707029

Client: APC

Project Manager: Robert Cornez

Project Name: 13-897-8" Condensate Line

Project Number: 42101067

Samples Collected By: B3

Telephone Number:

Email Address:

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 #	Other	8260		8270			
SS41	7/3/17	1504	1	X				X									
SS42		1505	1														
SS43		1506	1														
SS44		1507	1														
SS45		1508	1														
SS46		1509	1														
SS47		1511	1														
SS48		1512	1														
SS49		1514	1														
SS50		1516	1														
Relinquished By: <i>EA</i>	Date: 7/3/17	Time: 1545		Received By: <i>EA</i>	Date: 7/3/17	Time: 1816		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 type="checkbox"/>									

Temp Received: 10°C Date Results Needed:

Origins Laboratory, Inc.

*Jefe Pellegrini*

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7107029

Client: APC

Project Manager: Robert Cornez

Project Name: 13-897-8" Confession Line

Project Number: 42101067

Samples Collected By: ES

Telephone Number:

Email Address:

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	Container #	
5551	7/3/17	1518	1	X				X				1
5552		1520										2
5553		1522										3
5554		1523										4
5555		1525										5
5556		1527										6
5557		1530										7
5558		1532										8
5559		1534										9
5560		1535										10

Relinquished By: G.A. [Signature] Date: 7/3/17 Time: 1516

Relinquished By: [Signature] Date: 7/3/17 Time: 1516

Revised By: [Signature] Date: 7-3-17 Time: 1545

Received By: [Signature] Date: [ ] Time: [ ]

Turnaround Time: Same Day ☒ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard ☐

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Temp Received: 1.0°C Date Results Needed

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

www.originslaboratory.com

page 7 of 11

**ORIGINS**  
LABORATORY, INC

Client: APC  
Address: \_\_\_\_\_  
Telephone Number: \_\_\_\_\_  
Email Address: \_\_\_\_\_  
Project Manager: Robert Cornez  
Project Name: 13-897-8" Indensate Line  
Project Number: 42101067  
Samples Collected By: ES

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 #	Other	GC/MS	
SS61	7/3/17	1537	1	X				X					1
SS62		1539	1										2
SS63		1541	1										3
SS64		1542	1										4
SS65		1544	1										5
SS66		1546	1										6
SS67		1548	1										7
SS68		1550	1										8
SS69		1552	1										9
SS70		1554	1										10
Relinquished By: <u>E.A. Jorg</u>	Date: <u>7/3/17</u>	Time: <u>1545</u>		Received By: <u>[Signature]</u>				Received By: _____		Date: <u>7-3-17</u>	Time: <u>1545</u>	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard	

Date Results Needed

Temp Received: 10°C

Origins Laboratory, Inc.

*Jefe Pellegrini*

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

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Client: APC

Project Manager: Robert Cornez

Project Name: 13-897-8" Indusale Line

Project Number: 42101067

Samples Collected By: ES

Telephone Number: \_\_\_\_\_

Email Address: \_\_\_\_\_

Address: \_\_\_\_\_

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 <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other	DEQ/020	
5571	7/3/17	1556	1	X				X					1
5572		1558	1										2
5573		1600	1										3
5574		1602	1										4
5575		1604	1										5
5576		1606	1										6
5577		1608	1										7
5578		1610	1										8
5579		1611	1										9
5580		1613	1										10
Relinquished By: <u>Joe A. Pellgrini</u>	Date: <u>7/3/17</u>	Time: <u>1845</u>	Received By: <u>[Signature]</u>	Date: <u>7-3-17</u>	Time: <u>1845</u>	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard							

Temp Received: 10°C Date Results Needed: \_\_\_\_\_

Origins Laboratory, Inc.

*Joe Pellegrini*

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

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707029

Client: APC

Project Manager: Robert Cornez

Project Name: 13-897-8" Condensate Line

Project Number: 42101067

Samples Collected By: E3

Telephone Number:

Email Address:

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis		Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Alr Summa Canister #	Other	
5581	7/3/17	1615	1	X					X			1
5582		1617	1									2
5583		1618	1									3
5584		1620	1									4
5585		1621	1									5
5586		1622	1									6
5587		1624	1									7
5588		1626	1									8
5589		1628	1									9
5590		1630	1									10
Relinquished By: G.A. Pellegrini	Date: 7/3/17	Time: 1645	Received By: [Signature]	Date: 7-3-17	Time: 1645	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 type="checkbox"/>						

Temp Received: 10°C Date Results Needed

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

Origins Laboratory, Inc.

Jefe Pellegrini

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Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

# ORIGINS

LABORATORY, INC

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APC

Client:

Address:

Project Manager: Robert Gomez


Project Name: 13-897-8" Curbcut/Lane

Project Number: 42101067

Telephone Number:

Samples Collected By: EJ

Email Address:

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 Continer #					
5591	7/13/17	1631	1	X					X			X	X	1	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 type="checkbox"/>
5592		1632	1											2	
5593		1634	1											3	
5594		1635	1											4	
5595		1636	1											5	
5596		1638	1											6	
5597		1639	1											7	
5598		1640	1											8	
5599		1641	1											9	
55100		1643	1											10	
Relinquished By: C.A. King	Date: 7/13/17	Time: 1645	Relinquished By: 	Date: 7-13-17	Time: 1645	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 type="checkbox"/>									
Relinquished By:	Date:	Time:	Relinquished By:	Date:	Time:										

Fax: 303.265.9645

Phone: 303.433.1322

Denver, CO 80211

1725 Elk Place

Temp Received- 60°C

Date Results Needed

Origins Laboratory, Inc.

Jeff Pellipini

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Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

# ORIGINS

LABORATORY, INC

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Client: APC

Address: \_\_\_\_\_

Project Manager: Robert Gomez

Project Name: 13-897-8 "Condensate Line"

Project Number: 42101067

Telephone Number: \_\_\_\_\_

Samples Collected By: E3

Email Address: \_\_\_\_\_

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 #			Other
55101	7/3/17	16:45	1	X					X		X	8260 C-15 Deco 620 C-15 C-15 C-15	1
55102	↓	16:47	1	X					X		X		2
55103	↓	16:48	1	X					X		X		3
55104	↓	16:50	1	X					X		X		4
													5
													6
													7
													8
													9
													10
Relinquished By: <u>E.A. May</u>	Date: <u>7/3/17</u>	Time: <u>18:45</u>							Received By: <u>[Signature]</u>	Date: <u>7-3-17</u>	Time: <u>18:45</u>	Turnaround Time: <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard	
Relinquished By: _____	Date: _____	Time: _____							Received By: _____	Date: _____	Time: _____		

Fax: 303.265.9645

Phone: 303.433.1322

Denver, CO 80211

1725 Elk Place

Temp Received: 10°C

Date Results Needed

Origins Laboratory, Inc.

Jeff Pellipini

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 1707029

Client: Tasman

Client Project ID: KMG - 13-897-8" Condensate Line

Checklist Completed by: Dan

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

Date/time completed: 7-3-17 1857

Airbill #: \_\_\_\_\_

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

Cooler Number/Temperature: 1 / 1 1.0 °C        /        °C        /        °C (Describe)        °C

Thermometer ID: 1003

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 type="checkbox"/>	<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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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]

7-3-17 1857  
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS01

7/3/2017 2:07:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-01 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	<b>208</b>	100	"	"	"	"	"	

Surrogate: o-Terphenyl	87.5 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	106 %	70-130			"	"	"	
Surrogate: Toluene-d8	95.5 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.2 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS02

7/3/2017 2:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-02 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 86.8 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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 109 % 70-130 " " "  
Surrogate: Toluene-d8 98.5 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 97.2 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS03

7/3/2017 2:11:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-03 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	138	100	"	"	"	"	"	

Surrogate: o-Terphenyl	83.2 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	108 %	70-130			"	"	"	
Surrogate: Toluene-d8	95.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.8 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS04

7/3/2017 2:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-04 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	113	100	"	"	"	"	"	

Surrogate: o-Terphenyl	87.7 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	110 %	70-130			"	"	"	
Surrogate: Toluene-d8	94.6 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.7 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS05

7/3/2017 2:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-05 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 89.8 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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 111 % 70-130 " " "  
Surrogate: Toluene-d8 93.8 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 96.3 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS06

7/3/2017 2:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-06 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	161	100	"	"	"	"	"	

Surrogate: o-Terphenyl	96.3 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	110 %	70-130			"	"	"	
Surrogate: Toluene-d8	93.9 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.5 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS07

7/3/2017 2:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-07 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	<b>164</b>	100	"	"	"	"	"	

Surrogate: o-Terphenyl	95.5 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	110 %	70-130			"	"	"	
Surrogate: Toluene-d8	92.9 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.3 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS08

7/3/2017 2:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-08 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	<b>205</b>	100	"	"	"	"	"	

Surrogate: o-Terphenyl	84.7 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	109 %	70-130			"	"	"	
Surrogate: Toluene-d8	94.9 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.3 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS09

7/3/2017 2:19:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-09 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	70.9	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	259	100	"	"	"	"	"	

Surrogate: o-Terphenyl	94.2 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	113 %	70-130			"	"	"	
Surrogate: Toluene-d8	93.6 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.3 %	70-130			"	"	"	

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS10

7/3/2017 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-10 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	33.8	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	98.3 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	108 %	70-130			"	"	"	
Surrogate: Toluene-d8	95.1 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.8 %	70-130			"	"	"	

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6899 Pecos Street, Unit C  
Denver CO 80211

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Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS11

7/3/2017 2:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-11 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	1710	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	2860	100	"	"	"	"	"	

Surrogate: o-Terphenyl	93.4 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	114 %	70-130			"	"	"	
Surrogate: Toluene-d8	94.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.6 %	70-130			"	"	"	

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Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS12

7/3/2017 2:24:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-12 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	157	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	264	100	"	"	"	"	"	

Surrogate: o-Terphenyl	90.6 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	115 %	70-130			"	"	"	
Surrogate: Toluene-d8	94.9 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	80.6 %	70-130			"	"	"	

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Denver CO 80211

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Project: KMG - 16-80-40-4" Line Release

## SS13

7/3/2017 2:26:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-13 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	25.2	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	162	100	"	"	"	"	"	

Surrogate: o-Terphenyl	94.0 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	111 %	70-130			"	"	"	
Surrogate: Toluene-d8	93.5 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	116 %	70-130			"	"	"	

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Denver CO 80211

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Project: KMG - 16-80-40-4" Line Release

## SS14

7/3/2017 2:27:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-14 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	39.3	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	213	100	"	"	"	"	"	

Surrogate: o-Terphenyl	93.2 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	109 %	70-130			"	"	"	
Surrogate: Toluene-d8	94.4 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	127 %	70-130			"	"	"	

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Denver CO 80211

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Project: KMG - 16-80-40-4" Line Release

## SS15

7/3/2017 2:28:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-15 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	27.2	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	148	100	"	"	"	"	"	

Surrogate: o-Terphenyl	88.0 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	110 %	70-130			"	"	"	
Surrogate: Toluene-d8	93.3 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	118 %	70-130			"	"	"	

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Denver CO 80211

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Project: KMG - 16-80-40-4" Line Release

## SS16

7/3/2017 2:29:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-16 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	44.8	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	78.0 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	113 %	70-130			"	"	"	
Surrogate: Toluene-d8	91.9 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.7 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

SS17  
7/3/2017 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y707029-17 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	92.3 %	59-131			"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	113 %	70-130			"	"	"	
Surrogate: Toluene-d8	95.0 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	127 %	70-130			"	"	"	

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS18

7/3/2017 2:31:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-18 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	77.6	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	109 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	113 %	70-130			"	"	"	
Surrogate: Toluene-d8	94.6 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	81.7 %	70-130			"	"	"	

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS19

7/3/2017 2:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-19 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	190	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	131	100	"	"	"	"	"	

Surrogate: o-Terphenyl	104 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	110 %	70-130			"	"	"	
Surrogate: Toluene-d8	93.0 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS20

7/3/2017 2:33:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-20 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	243	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	154	100	"	"	"	"	"	

Surrogate: o-Terphenyl	102 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	111 %	70-130			"	"	"	
Surrogate: Toluene-d8	94.0 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.0 %	70-130			"	"	"	

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Denver CO 80211

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Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS21

7/3/2017 2:34:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-21 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	41.0	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	151	100	"	"	"	"	"	

Surrogate: o-Terphenyl	103 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	99.0 %	70-130			"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.1 %	70-130			"	"	"	

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Denver CO 80211

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Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS22

7/3/2017 2:36:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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### Origins Laboratory, Inc. Y707029-22 (Soil)

#### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 92.1 % 59-131 " " "

#### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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 99.4 % 70-130 " " "  
Surrogate: Toluene-d8 101 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 97.4 % 70-130 " " "

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## SS23

7/3/2017 2:37:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-23 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 90.2 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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 98.8 % 70-130 " " "  
Surrogate: Toluene-d8 99.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 96.4 % 70-130 " " "

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS24

7/3/2017 2:38:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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### Origins Laboratory, Inc. Y707029-24 (Soil)

#### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 70.4 % 59-131 " " "

#### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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 98.6 % 70-130 " " "  
Surrogate: Toluene-d8 100 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 96.1 % 70-130 " " "

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Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS25

7/3/2017 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-25 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	360	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	212	100	"	"	"	"	"	

Surrogate: o-Terphenyl	105 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	98.4 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.9 %	70-130			"	"	"	

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Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS26

7/3/2017 2:42:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-26 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 90.5 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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 97.9 % 70-130 " " "  
Surrogate: Toluene-d8 100 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 95.7 % 70-130 " " "

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

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Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS27

7/3/2017 2:43:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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### Origins Laboratory, Inc. Y707029-27 (Soil)

#### DRO/RRO by EPA8015C

Diesel (C10-C28)	53.0	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	91.2 %	59-131			"	"	"	
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#### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	98.1 %	70-130			"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.1 %	70-130			"	"	"	

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## SS28

7/3/2017 2:44:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-28 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	111	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	169	100	"	"	"	"	"	

Surrogate: o-Terphenyl	101 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	98.0 %	70-130			"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.0 %	70-130			"	"	"	

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## SS29

7/3/2017 2:46:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-29 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	111	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	760	100	"	"	"	"	"	

Surrogate: o-Terphenyl 132 % 59-131 " " " S-DUP

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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 97.5 % 70-130 " " "

Surrogate: Toluene-d8 101 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 97.6 % 70-130 " " "

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Project: KMG - 16-80-40-4" Line Release

## SS30

7/3/2017 2:48:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-30 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	75.9	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	129	100	"	"	"	"	"	

Surrogate: o-Terphenyl	83.2 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	98.0 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.1 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.6 %	70-130			"	"	"	

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## SS31

7/3/2017 2:49:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-31 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	68.0	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	85.9 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	99.7 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.9 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.6 %	70-130			"	"	"	

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Denver CO 80211

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## SS32

7/3/2017 2:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-32 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	87.2 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	98.6 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.1 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.0 %	70-130			"	"	"	

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Denver CO 80211

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Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS33

7/3/2017 2:52:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-33 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 90.7 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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 98.9 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 97.7 % 70-130 " " "

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Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS34

7/3/2017 2:54:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-34 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	54.8	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	85.9 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	97.6 %	70-130			"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.4 %	70-130			"	"	"	

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Denver CO 80211

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Project: KMG - 16-80-40-4" Line Release

## SS35

7/3/2017 2:56:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-35 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	163	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	145	100	"	"	"	"	"	

Surrogate: o-Terphenyl	94.3 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	98.3 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.1 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.1 %	70-130			"	"	"	

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Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS36

7/3/2017 2:58:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-36 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 91.4 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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 99.5 % 70-130 " " "  
Surrogate: Toluene-d8 102 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 98.1 % 70-130 " " "

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

SS37

7/3/2017 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y707029-37 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	<b>128</b>	100	"	"	"	"	"	

Surrogate: o-Terphenyl	89.6 %	59-131			"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	99.6 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.9 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.5 %	70-130			"	"	"	

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Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS38

7/3/2017 3:01:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-38 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	26.8	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	88.3 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	98.1 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.9 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.0 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS39

7/3/2017 3:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-39 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	30.6	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	89.5 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	99.5 %	70-130			"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.6 %	70-130			"	"	"	

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS40

7/3/2017 3:03:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-40 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 85.5 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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 100 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 96.8 % 70-130 " " "

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

SS41  
7/3/2017 3:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y707029-41 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 88.7 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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 99.5 % 70-130 " " "  
Surrogate: Toluene-d8 99.8 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 95.8 % 70-130 " " "

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS42

7/3/2017 3:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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### Origins Laboratory, Inc. Y707029-42 (Soil)

#### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

#### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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 99.4 % 70-130 " " "  
Surrogate: Toluene-d8 101 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 98.5 % 70-130 " " "

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS43

7/3/2017 3:06:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-43 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	29.5	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	90.2 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	99.1 %	70-130			"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.4 %	70-130			"	"	"	

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Denver CO 80211

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Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS44

7/3/2017 3:07:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-44 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	103	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	93.0 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	99.6 %	70-130			"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.7 %	70-130			"	"	"	

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Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS45

7/3/2017 3:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-45 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	55.6	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	133	100	"	"	"	"	"	

Surrogate: o-Terphenyl	97.3 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	101 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.3 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.6 %	70-130			"	"	"	

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6899 Pecos Street, Unit C  
Denver CO 80211

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Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS46

7/3/2017 3:09:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-46 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	109	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	103 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	98.5 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.2 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.6 %	70-130			"	"	"	

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

SS47

7/3/2017 3:11:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y707029-47 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	248	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	169	100	"	"	"	"	"	

Surrogate: o-Terphenyl	97.8 %	59-131			"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	98.7 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.6 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.8 %	70-130			"	"	"	

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS48

7/3/2017 3:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-48 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	57.8	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	89.9 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	99.6 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.3 %	70-130			"	"	"	

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS49

7/3/2017 3:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-49 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	57.7	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	88.6 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	97.9 %	70-130			"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.7 %	70-130			"	"	"	

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS50

7/3/2017 3:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-50 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	103	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	119	100	"	"	"	"	"	

Surrogate: o-Terphenyl	94.4 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.9 %	70-130			"	"	"	

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS51

7/3/2017 3:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-51 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	137	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	132	100	"	"	"	"	"	

Surrogate: o-Terphenyl	76.4 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	99.4 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.9 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.6 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS52

7/3/2017 3:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-52 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 60.7 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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 99.3 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 96.1 % 70-130 " " "

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS53

7/3/2017 3:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-53 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	28.8	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	83.6 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	99.2 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.7 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.7 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS54

7/3/2017 3:23:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-54 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	35.9	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	213	100	"	"	"	"	"	

Surrogate: o-Terphenyl	73.0 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	98.9 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.3 %	70-130			"	"	"	

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS55

7/3/2017 3:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-55 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	33.4	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	72.3 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	99.6 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.6 %	70-130			"	"	"	

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS56

7/3/2017 3:27:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-56 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 69.7 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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 113 % 70-130 " " "  
Surrogate: Toluene-d8 92.9 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 96.7 % 70-130 " " "

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

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Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS57

7/3/2017 3:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-57 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	115	100	"	"	"	"	"	

Surrogate: o-Terphenyl 70.0 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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 113 % 70-130 " " "  
Surrogate: Toluene-d8 96.4 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

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Denver CO 80211

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Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

SS58

7/3/2017 3:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y707029-58 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 69.0 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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 110 % 70-130 " " "  
Surrogate: Toluene-d8 96.3 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 96.8 % 70-130 " " "

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Denver CO 80211

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Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS59

7/3/2017 3:34:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-59 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	261	100	"	"	"	"	"	

Surrogate: o-Terphenyl	69.3 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	110 %	70-130			"	"	"	
Surrogate: Toluene-d8	95.6 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.9 %	70-130			"	"	"	

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Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS60

7/3/2017 3:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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### Origins Laboratory, Inc. Y707029-60 (Soil)

#### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 68.5 % 59-131 " " "

#### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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 109 % 70-130 " " "  
Surrogate: Toluene-d8 89.1 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 98.0 % 70-130 " " "

Origins Laboratory, Inc.



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Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

SS61  
7/3/2017 3:37:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y707029-61 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 67.7 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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 112 % 70-130 " " "  
Surrogate: Toluene-d8 97.9 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 96.8 % 70-130 " " "

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS62

7/3/2017 3:39:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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### Origins Laboratory, Inc. Y707029-62 (Soil)

#### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 67.0 % 59-131 " " "

#### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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 108 % 70-130 " " "  
Surrogate: Toluene-d8 94.7 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 97.1 % 70-130 " " "

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS63

7/3/2017 3:41:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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### Origins Laboratory, Inc. Y707029-63 (Soil)

#### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 59.6 % 59-131 " " "

#### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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 110 % 70-130 " " "

Surrogate: Toluene-d8 103 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 97.6 % 70-130 " " "

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS64

7/3/2017 3:42:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-64 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 69.4 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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 106 % 70-130 " " "  
Surrogate: Toluene-d8 95.2 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 97.8 % 70-130 " " "

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS65

7/3/2017 3:44:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-65 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	55.5	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	
Residual Range Organics (C28-C40)	398	100	"	"	"	"	"	

Surrogate: o-Terphenyl	89.6 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	111 %	70-130			"	"	"	
Surrogate: Toluene-d8	97.6 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.5 %	70-130			"	"	"	

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6899 Pecos Street, Unit C  
Denver CO 80211

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Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS66

7/3/2017 3:46:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-66 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	116	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	
Residual Range Organics (C28-C40)	730	100	"	"	"	"	"	

Surrogate: o-Terphenyl	97.8 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	112 %	70-130			"	"	"	
Surrogate: Toluene-d8	95.9 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.6 %	70-130			"	"	"	

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Denver CO 80211

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Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS67

7/3/2017 3:48:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-67 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	30.4	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	67.7 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	109 %	70-130			"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.3 %	70-130			"	"	"	

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS68

7/3/2017 3:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-68 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	51.8	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	180	100	"	"	"	"	"	

Surrogate: o-Terphenyl	79.0 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	108 %	70-130			"	"	"	
Surrogate: Toluene-d8	96.0 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.0 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS69

7/3/2017 3:52:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-69 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	129	100	"	"	"	"	"	

Surrogate: o-Terphenyl	69.0 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	108 %	70-130			"	"	"	
Surrogate: Toluene-d8	96.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.5 %	70-130			"	"	"	

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS70

7/3/2017 3:54:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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### Origins Laboratory, Inc. Y707029-70 (Soil)

#### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 67.0 % 59-131 " " "

#### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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 110 % 70-130 " " "  
Surrogate: Toluene-d8 97.0 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 97.9 % 70-130 " " "

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

SS71

7/3/2017 3:56:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y707029-71 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 91.1 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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 107 % 70-130 " " "  
Surrogate: Toluene-d8 92.8 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 97.9 % 70-130 " " "

Origins Laboratory, Inc.



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Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS72

7/3/2017 3:58:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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### Origins Laboratory, Inc. Y707029-72 (Soil)

#### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	<b>126</b>	100	"	"	"	"	"	

Surrogate: o-Terphenyl	67.8 %	59-131			"	"	"	
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#### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	112 %	70-130			"	"	"	
Surrogate: Toluene-d8	96.9 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.3 %	70-130			"	"	"	

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## SS73

7/3/2017 4:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-73 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	95.6	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	
Residual Range Organics (C28-C40)	154	100	"	"	"	"	"	

Surrogate: o-Terphenyl	80.9 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	110 %	70-130			"	"	"	
Surrogate: Toluene-d8	104 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.0 %	70-130			"	"	"	

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Project: KMG - 16-80-40-4" Line Release

## SS74

7/3/2017 4:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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### Origins Laboratory, Inc. Y707029-74 (Soil)

#### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 67.8 % 59-131 " " "

#### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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 112 % 70-130 " " "  
Surrogate: Toluene-d8 94.7 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 97.8 % 70-130 " " "

Origins Laboratory, Inc.



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Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS75

7/3/2017 4:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-75 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	38.3	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	75.7 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	110 %	70-130			"	"	"	
Surrogate: Toluene-d8	96.0 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.1 %	70-130			"	"	"	

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Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS76

7/3/2017 4:06:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-76 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	43.8	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	74.7 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	116 %	70-130			"	"	"	
Surrogate: Toluene-d8	94.2 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.6 %	70-130			"	"	"	

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

SS77

7/3/2017 4:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y707029-77 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	49.1	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	67.4 %	59-131			"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	110 %	70-130			"	"	"	
Surrogate: Toluene-d8	96.5 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.1 %	70-130			"	"	"	

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS78

7/3/2017 4:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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### Origins Laboratory, Inc. Y707029-78 (Soil)

#### DRO/RRO by EPA8015C

Diesel (C10-C28)	138	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	
Residual Range Organics (C28-C40)	414	100	"	"	"	"	"	

Surrogate: o-Terphenyl	86.5 %	59-131			"	"	"	
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#### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	104 %	70-130			"	"	"	
Surrogate: Toluene-d8	91.5 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.0 %	70-130			"	"	"	

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS79

7/3/2017 4:11:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-79 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	<b>202</b>	100	"	"	"	"	"	

Surrogate: o-Terphenyl	66.4 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	113 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.1 %	70-130			"	"	"	

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS80

7/3/2017 4:13:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-80 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	37.4	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	70.8 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	110 %	70-130			"	"	"	
Surrogate: Toluene-d8	93.9 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"	

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

SS81

7/3/2017 4:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y707029-81 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 66.4 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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 104 % 70-130 " " "

Surrogate: Toluene-d8 99.6 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 99.6 % 70-130 " " "

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS82

7/3/2017 4:17:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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### Origins Laboratory, Inc. Y707029-82 (Soil)

#### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 66.4 % 59-131 " " "

#### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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 105 % 70-130 " " "  
Surrogate: Toluene-d8 101 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS83

7/3/2017 4:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-83 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 66.9 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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 104 % 70-130 " " "  
Surrogate: Toluene-d8 100 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS84

7/3/2017 4:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-84 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	35.3	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	76.7 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	103 %	70-130			"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS85

7/3/2017 4:21:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-85 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	59.7	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	87.9 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	108 %	70-130			"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.4 %	70-130			"	"	"	

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS86

7/3/2017 4:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-86 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	29.3	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	136	100	"	"	"	"	"	

Surrogate: o-Terphenyl	71.8 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	105 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

SS87  
7/3/2017 4:24:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y707029-87 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 70.9 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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 104 % 70-130 " " "  
Surrogate: Toluene-d8 101 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

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Denver CO 80211

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Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS88

7/3/2017 4:26:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-88 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	25.7	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	
Residual Range Organics (C28-C40)	248	100	"	"	"	"	"	

Surrogate: o-Terphenyl	70.3 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	105 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.5 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	

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Denver CO 80211

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Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS89

7/3/2017 4:28:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-89 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	235	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	
Residual Range Organics (C28-C40)	1980	100	"	"	"	"	"	

Surrogate: o-Terphenyl	69.3 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	103 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.3 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.5 %	70-130			"	"	"	

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Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS90

7/3/2017 4:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-90 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	81.0	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	
Residual Range Organics (C28-C40)	831	100	"	"	"	"	"	

Surrogate: o-Terphenyl	78.9 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	105 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"	

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Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS91

7/3/2017 4:31:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-91 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	96.9	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	
Residual Range Organics (C28-C40)	197	100	"	"	"	"	"	

Surrogate: o-Terphenyl	76.4 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	104 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.7 %	70-130			"	"	"	

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS92

7/3/2017 4:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-92 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 67.7 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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 104 % 70-130 " " "  
Surrogate: Toluene-d8 98.0 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS93

7/3/2017 4:34:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-93 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	U
Residual Range Organics (C28-C40)	111	100	"	"	"	"	"	

Surrogate: o-Terphenyl	66.8 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	105 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.9 %	70-130			"	"	"	

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Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS94

7/3/2017 4:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-94 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	97.4	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	
Residual Range Organics (C28-C40)	147	100	"	"	"	"	"	

Surrogate: o-Terphenyl	102 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	103 %	70-130			"	"	"	
Surrogate: Toluene-d8	97.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.8 %	70-130			"	"	"	

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6899 Pecos Street, Unit C  
Denver CO 80211

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Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS95

7/3/2017 4:36:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-95 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 88.5 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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 107 % 70-130 " " "  
Surrogate: Toluene-d8 98.1 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

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6899 Pecos Street, Unit C  
Denver CO 80211

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Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS96

7/3/2017 4:38:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-96 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	29.2	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	85.7 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	107 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.9 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.0 %	70-130			"	"	"	

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Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

SS97

7/3/2017 4:39:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y707029-97 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 90.3 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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 107 % 70-130 " " "  
Surrogate: Toluene-d8 100 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

Origins Laboratory, Inc.



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Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS98

7/3/2017 4:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-98 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	U
Residual Range Organics (C28-C40)	135	100	"	"	"	"	"	

Surrogate: o-Terphenyl	90.4 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	108 %	70-130			"	"	"	
Surrogate: Toluene-d8	104 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS99

7/3/2017 4:41:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707029-99 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	49.3	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	
Residual Range Organics (C28-C40)	174	100	"	"	"	"	"	

Surrogate: o-Terphenyl	81.2 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	107 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

SS100  
7/3/2017 4:43:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y707029-AA (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	48.0	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	
Residual Range Organics (C28-C40)	147	100	"	"	"	"	"	

Surrogate: o-Terphenyl	83.6 %	59-131			"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	104 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

SS101  
7/3/2017 4:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y707029-AB (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	92.5 %	59-131			"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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	111 %	70-130			"	"	"	
Surrogate: Toluene-d8	94.3 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.3 %	70-130			"	"	"	

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

SS102  
7/3/2017 4:47:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y707029-AC (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	66.9	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	91.2 %	59-131			"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/05/2017	U
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	101 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.6 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.0 %	70-130			"	"	"	

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

SS103  
7/3/2017 4:48:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y707029-AD (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 93.4 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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 109 % 70-130 " " "  
Surrogate: Toluene-d8 93.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 124 % 70-130 " " "

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

SS104  
7/3/2017 4:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y707029-AE (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 87.0 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
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 108 % 70-130 " " "  
Surrogate: Toluene-d8 93.9 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 120 % 70-130 " " "

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Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B7G0301 - EPA 5030 (soil)</b>										
<b>Blank (B7G0301-BLK1)</b>					Prepared: 07/03/2017 Analyzed: 07/03/2017					
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	74		ug/kg	62.5		119	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.9	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.8	70-130			

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B7G0301 - EPA 5030 (soil)</b>										
<b>Blank (B7G0301-BLK2)</b>					Prepared: 07/03/2017 Analyzed: 07/04/2017					
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	75		ug/kg	62.5		120	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.1	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.3	70-130			

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B7G0301 - EPA 5030 (soil)</b>										
<b>Blank (B7G0301-BLK3)</b>					Prepared: 07/03/2017 Analyzed: 07/03/2017					
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	70		ug/kg	62.5		112	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.1	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B7G0301 - EPA 5030 (soil)</b>										
<b>Blank (B7G0301-BLK4)</b>					Prepared: 07/03/2017 Analyzed: 07/03/2017					
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		102	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.0	70-130			

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B7G0301 - EPA 5030 (soil)</b>										
<b>Blank (B7G0301-BLK5)</b>					Prepared: 07/03/2017 Analyzed: 07/03/2017					
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	69		ug/kg	62.5		110	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.7	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.4	70-130			

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B7G0301 - EPA 5030 (soil)</b>										
<b>Blank (B7G0301-BLK6)</b>					Prepared: 07/03/2017 Analyzed: 07/03/2017					
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	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.1	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B7G0301 - EPA 5030 (soil)</b>										
<b>LCS (B7G0301-BS1)</b>					Prepared: 07/03/2017 Analyzed: 07/03/2017					
Benzene	0.100	0.002	mg/kg	0.100		99.9	77.1-124			
Toluene	0.089	0.002	"	0.100		88.6	74.5-128			
Ethylbenzene	0.102	0.002	"	0.100		102	66.4-127			
m,p-Xylene	0.205	0.004	"	0.200		102	76.6-124			
o-Xylene	0.097	0.002	"	0.100		97.4	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	72		ug/kg	62.5		116	70-130			
Surrogate: Toluene-d8	57		"	62.5		91.4	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.4	70-130			

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B7G0301 - EPA 5030 (soil)</b>										
<b>LCS (B7G0301-BS2)</b>					Prepared: 07/03/2017 Analyzed: 07/04/2017					
Benzene	0.099	0.002	mg/kg	0.100		98.8	77.1-124			
Toluene	0.110	0.002	"	0.100		110	74.5-128			
Ethylbenzene	0.105	0.002	"	0.100		105	66.4-127			
m,p-Xylene	0.212	0.004	"	0.200		106	76.6-124			
o-Xylene	0.108	0.002	"	0.100		108	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	70		ug/kg	62.5		112	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.5	70-130			

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B7G0301 - EPA 5030 (soil)</b>										
<b>LCS (B7G0301-BS3)</b>					Prepared: 07/03/2017 Analyzed: 07/03/2017					
Benzene	0.104	0.002	mg/kg	0.100		104	77.1-124			
Toluene	0.124	0.002	"	0.100		124	74.5-128			
Ethylbenzene	0.106	0.002	"	0.100		106	66.4-127			
m,p-Xylene	0.214	0.004	"	0.200		107	76.6-124			
o-Xylene	0.111	0.002	"	0.100		111	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	71		ug/kg	62.5		114	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.2	70-130			

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B7G0301 - EPA 5030 (soil)</b>										
<b>LCS (B7G0301-BS4)</b>					Prepared: 07/03/2017 Analyzed: 07/03/2017					
Benzene	0.100	0.002	mg/kg	0.100		99.7	77.1-124			
Toluene	0.097	0.002	"	0.100		96.8	74.5-128			
Ethylbenzene	0.093	0.002	"	0.100		92.9	66.4-127			
m,p-Xylene	0.182	0.004	"	0.200		90.8	76.6-124			
o-Xylene	0.092	0.002	"	0.100		92.5	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		96.9	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		95.1	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B7G0301 - EPA 5030 (soil)</b>										
<b>LCS (B7G0301-BS5)</b>					Prepared: 07/03/2017 Analyzed: 07/03/2017					
Benzene	0.105	0.002	mg/kg	0.100		105	77.1-124			
Toluene	0.101	0.002	"	0.100		101	74.5-128			
Ethylbenzene	0.097	0.002	"	0.100		97.4	66.4-127			
m,p-Xylene	0.189	0.004	"	0.200		94.4	76.6-124			
o-Xylene	0.096	0.002	"	0.100		96.5	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.0	70-130			

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B7G0301 - EPA 5030 (soil)</b>										
<b>LCS (B7G0301-BS6)</b>					Prepared: 07/03/2017 Analyzed: 07/03/2017					
Benzene	0.100	0.002	mg/kg	0.100		100	77.1-124			
Toluene	0.099	0.002	"	0.100		99.0	74.5-128			
Ethylbenzene	0.096	0.002	"	0.100		95.5	66.4-127			
m,p-Xylene	0.186	0.004	"	0.200		92.8	76.6-124			
o-Xylene	0.093	0.002	"	0.100		93.5	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		96.9	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.6	70-130			

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Bob Cornez  
Project Number: 89334975  
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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 B7G0301 - EPA 5030 (soil)**

Matrix Spike (B7G0301-MS1)		Source: Y707001-03			Prepared: 07/03/2017 Analyzed: 07/03/2017					
Benzene	0.094	0.002	mg/kg	0.100	0.0009	93.2	71.8-126			
Toluene	0.099	0.002	"	0.100	ND	98.9	65.1-130			
Ethylbenzene	0.091	0.002	"	0.100	ND	90.6	62.2-130			
m,p-Xylene	0.184	0.004	"	0.200	ND	92.1	46.5-137			
o-Xylene	0.096	0.002	"	0.100	ND	96.3	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	77		ug/kg	62.5		123	70-130			
Surrogate: Toluene-d8	57		"	62.5		91.9	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	70-130			

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Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B7G0301 - EPA 5030 (soil)**

Matrix Spike (B7G0301-MS2)		Source: Y707001-04			Prepared: 07/03/2017 Analyzed: 07/03/2017					
Benzene	0.101	0.002	mg/kg	0.100	ND	101	71.8-126			
Toluene	0.103	0.002	"	0.100	ND	103	65.1-130			
Ethylbenzene	0.109	0.002	"	0.100	0.002	107	62.2-130			
m,p-Xylene	0.262	0.004	"	0.200	0.049	106	46.5-137			
o-Xylene	0.135	0.002	"	0.100	0.022	114	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	75		ug/kg	62.5		121	70-130			
Surrogate: Toluene-d8	54		"	62.5		86.7	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

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Denver CO 80211

Bob Cornez  
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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 B7G0301 - EPA 5030 (soil)**

Matrix Spike (B7G0301-MS3)		Source: Y707001-05			Prepared: 07/03/2017 Analyzed: 07/03/2017					
Benzene	0.102	0.002	mg/kg	0.100	0.003	98.7	71.8-126			
Toluene	0.112	0.002	"	0.100	ND	112	65.1-130			
Ethylbenzene	0.100	0.002	"	0.100	ND	99.7	62.2-130			
m,p-Xylene	0.204	0.004	"	0.200	ND	102	46.5-137			
o-Xylene	0.106	0.002	"	0.100	ND	106	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	72		ug/kg	62.5		115	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.3	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.7	70-130			

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Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B7G0301 - EPA 5030 (soil)**

Matrix Spike (B7G0301-MS4)		Source: Y707001-06			Prepared: 07/03/2017 Analyzed: 07/03/2017					
Benzene	0.101	0.002	mg/kg	0.100	0.002	99.2	71.8-126			
Toluene	0.096	0.002	"	0.100	0.001	94.8	65.1-130			
Ethylbenzene	0.093	0.002	"	0.100	ND	93.1	62.2-130			
m,p-Xylene	0.182	0.004	"	0.200	ND	90.8	46.5-137			
o-Xylene	0.092	0.002	"	0.100	ND	91.7	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.8	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		95.2	70-130			

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B7G0301 - EPA 5030 (soil)**

Matrix Spike (B7G0301-MS5)		Source: Y707001-07			Prepared: 07/03/2017 Analyzed: 07/03/2017					
Benzene	0.097	0.002	mg/kg	0.100	0.001	95.7	71.8-126			
Toluene	0.103	0.002	"	0.100	0.016	87.1	65.1-130			
Ethylbenzene	0.096	0.002	"	0.100	0.010	85.4	62.2-130			
m,p-Xylene	0.214	0.004	"	0.200	0.068	73.2	46.5-137			
o-Xylene	0.106	0.002	"	0.100	0.025	81.0	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.3	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.1	70-130			

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Denver CO 80211

Bob Cornez  
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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 B7G0301 - EPA 5030 (soil)**

Matrix Spike (B7G0301-MS6)		Source: Y707001-08			Prepared: 07/03/2017 Analyzed: 07/03/2017					
Benzene	0.099	0.002	mg/kg	0.100	0.003	96.2	71.8-126			
Toluene	0.098	0.002	"	0.100	0.007	90.1	65.1-130			
Ethylbenzene	0.088	0.002	"	0.100	0.003	85.4	62.2-130			
m,p-Xylene	0.187	0.004	"	0.200	0.021	83.1	46.5-137			
o-Xylene	0.092	0.002	"	0.100	0.006	85.8	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.9	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.4	70-130			

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Jen Pellegrini For Noelle Doyle Mathis, President

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Bob Cornez  
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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 B7G0301 - EPA 5030 (soil)**

Matrix Spike Dup (B7G0301-MSD1)		Source: Y707001-03			Prepared: 07/03/2017 Analyzed: 07/03/2017					
Benzene	0.101	0.002	mg/kg	0.100	0.0009	99.7	71.8-126	6.65	11.3	
Toluene	0.109	0.002	"	0.100	ND	109	65.1-130	9.86	15.4	
Ethylbenzene	0.103	0.002	"	0.100	ND	103	62.2-130	12.3	19.6	
m,p-Xylene	0.208	0.004	"	0.200	ND	104	46.5-137	12.3	19.2	
o-Xylene	0.110	0.002	"	0.100	ND	110	54.2-134	13.1	17.9	
Surrogate: 1,2-Dichloroethane-d4	75		ug/kg	62.5		120	70-130			
Surrogate: Toluene-d8	57		"	62.5		91.8	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.7	70-130			

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Bob Cornez  
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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 B7G0301 - EPA 5030 (soil)**

Matrix Spike Dup (B7G0301-MSD2)		Source: Y707001-04			Prepared: 07/03/2017 Analyzed: 07/03/2017					
Benzene	0.093	0.002	mg/kg	0.100	ND	93.0	71.8-126	7.85	11.3	
Toluene	0.093	0.002	"	0.100	ND	92.9	65.1-130	10.1	15.4	
Ethylbenzene	0.100	0.002	"	0.100	0.002	98.0	62.2-130	8.82	19.6	
m,p-Xylene	0.246	0.004	"	0.200	0.049	98.3	46.5-137	6.21	19.2	
o-Xylene	0.130	0.002	"	0.100	0.022	108	54.2-134	3.97	17.9	
Surrogate: 1,2-Dichloroethane-d4	74		ug/kg	62.5		119	70-130			
Surrogate: Toluene-d8	54		"	62.5		86.8	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	70-130			

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Bob Cornez  
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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 B7G0301 - EPA 5030 (soil)**

Matrix Spike Dup (B7G0301-MSD3)		Source: Y707001-05			Prepared: 07/03/2017 Analyzed: 07/03/2017					
Benzene	0.098	0.002	mg/kg	0.100	0.003	94.9	71.8-126	3.75	11.3	
Toluene	0.118	0.002	"	0.100	ND	118	65.1-130	4.94	15.4	
Ethylbenzene	0.097	0.002	"	0.100	ND	97.2	62.2-130	2.56	19.6	
m,p-Xylene	0.199	0.004	"	0.200	ND	99.7	46.5-137	2.26	19.2	
o-Xylene	0.104	0.002	"	0.100	ND	104	54.2-134	1.85	17.9	
Surrogate: 1,2-Dichloroethane-d4	73		ug/kg	62.5		117	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.6	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
<b>Batch B7G0301 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B7G0301-MSD4)</b>					<b>Source: Y707001-06</b>					Prepared: 07/03/2017 Analyzed: 07/03/2017
Benzene	0.099	0.002	mg/kg	0.100	0.002	97.2	71.8-126	2.01	11.3	
Toluene	0.094	0.002	"	0.100	0.001	93.3	65.1-130	1.62	15.4	
Ethylbenzene	0.087	0.002	"	0.100	ND	87.0	62.2-130	6.75	19.6	
m,p-Xylene	0.174	0.004	"	0.200	ND	87.2	46.5-137	4.07	19.2	
o-Xylene	0.089	0.002	"	0.100	ND	89.1	54.2-134	2.88	17.9	
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	59		"	62.5		95.1	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.5	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 B7G0301 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B7G0301-MSD5)</b>		<b>Source: Y707001-07</b>			Prepared: 07/03/2017 Analyzed: 07/03/2017					
Benzene	0.093	0.002	mg/kg	0.100	0.001	91.6	71.8-126	4.27	11.3	
Toluene	0.100	0.002	"	0.100	0.016	83.9	65.1-130	3.15	15.4	
Ethylbenzene	0.090	0.002	"	0.100	0.010	80.1	62.2-130	5.71	19.6	
m,p-Xylene	0.211	0.004	"	0.200	0.068	71.7	46.5-137	1.39	19.2	
o-Xylene	0.104	0.002	"	0.100	0.025	79.2	54.2-134	1.75	17.9	
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.3	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.6	70-130			

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Denver CO 80211

Bob Cornez  
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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 B7G0301 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B7G0301-MSD6)</b>		<b>Source: Y707001-08</b>			Prepared: 07/03/2017 Analyzed: 07/03/2017					
Benzene	0.098	0.002	mg/kg	0.100	0.003	95.3	71.8-126	0.953	11.3	
Toluene	0.099	0.002	"	0.100	0.007	91.2	65.1-130	1.04	15.4	
Ethylbenzene	0.094	0.002	"	0.100	0.003	91.1	62.2-130	6.25	19.6	
m,p-Xylene	0.189	0.004	"	0.200	0.021	84.3	46.5-137	1.30	19.2	
o-Xylene	0.095	0.002	"	0.100	0.006	88.2	54.2-134	2.59	17.9	
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.4	70-130			
Surrogate: Toluene-d8	59		"	62.5		93.6	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.8	70-130			

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Bob Cornez  
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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 B7G0302 - EPA 3550B

#### Blank (B7G0302-BLK1)

Prepared: 07/03/2017 Analyzed: 07/03/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	47		"	50.0		95.0	59-131			

#### Blank (B7G0302-BLK2)

Prepared: 07/03/2017 Analyzed: 07/03/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	48		"	50.0		96.7	59-131			

#### Blank (B7G0302-BLK3)

Prepared: 07/03/2017 Analyzed: 07/03/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	46		"	50.0		92.1	59-131			

#### Blank (B7G0302-BLK4)

Prepared: 07/03/2017 Analyzed: 07/03/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	46		"	50.0		92.5	59-131			

#### Blank (B7G0302-BLK5)

Prepared: 07/03/2017 Analyzed: 07/03/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## 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 B7G0302 - EPA 3550B</b>										
<b>Blank (B7G0302-BLK5)</b>					Prepared: 07/03/2017 Analyzed: 07/03/2017					
Surrogate: o-Terphenyl	45		mg/kg	50.0		90.7	59-131			
<b>Blank (B7G0302-BLK6)</b>					Prepared: 07/03/2017 Analyzed: 07/03/2017					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	35		"	50.0		70.5	59-131			
<b>LCS (B7G0302-BS1)</b>					Prepared: 07/03/2017 Analyzed: 07/03/2017					
Diesel (C10-C28)	1010	50.0	mg/kg	1000		101	64-121			
Residual Range Organics (C28-C40)	983	200	"	1000		98.3	58-124			
Surrogate: o-Terphenyl	49		"	50.0		98.6	59-131			
<b>LCS (B7G0302-BS2)</b>					Prepared: 07/03/2017 Analyzed: 07/03/2017					
Diesel (C10-C28)	985	50.0	mg/kg	1000		98.5	64-121			
Residual Range Organics (C28-C40)	983	200	"	1000		98.3	58-124			
Surrogate: o-Terphenyl	49		"	50.0		98.9	59-131			
<b>LCS (B7G0302-BS3)</b>					Prepared: 07/03/2017 Analyzed: 07/03/2017					
Diesel (C10-C28)	1060	50.0	mg/kg	1000		106	64-121			
Residual Range Organics (C28-C40)	1020	200	"	1000		102	58-124			
Surrogate: o-Terphenyl	53		"	50.0		105	59-131			
<b>LCS (B7G0302-BS4)</b>					Prepared: 07/03/2017 Analyzed: 07/03/2017					
Diesel (C10-C28)	944	50.0	mg/kg	1000		94.4	64-121			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	58-124			
Surrogate: o-Terphenyl	52		"	50.0		105	59-131			
<b>LCS (B7G0302-BS5)</b>					Prepared: 07/03/2017 Analyzed: 07/03/2017					

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: 89334975  
Project: KMG - 16-80-40-4" Line Release

## 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 B7G0302 - EPA 3550B</b>										
<b>LCS (B7G0302-BS5)</b>					Prepared: 07/03/2017 Analyzed: 07/03/2017					
Diesel (C10-C28)	819	50.0	mg/kg	1000		81.9	64-121			
Residual Range Organics (C28-C40)	783	200	"	1000		78.3	58-124			
Surrogate: o-Terphenyl	42		"	50.0		83.8	59-131			
<b>LCS (B7G0302-BS6)</b>					Prepared: 07/03/2017 Analyzed: 07/03/2017					
Diesel (C10-C28)	999	50.0	mg/kg	1000		99.9	64-121			
Residual Range Organics (C28-C40)	1030	200	"	1000		103	58-124			
Surrogate: o-Terphenyl	51		"	50.0		102	59-131			
<b>Matrix Spike (B7G0302-MS1)</b>					<b>Source: Y707001-03</b>		Prepared: 07/03/2017 Analyzed: 07/03/2017			
Diesel (C10-C28)	1010	50.0	mg/kg	1000	31.1	98.3	53-125			
Residual Range Organics (C28-C40)	987	200	"	1000	16.0	97.1	47-133			
Surrogate: o-Terphenyl	52		"	50.0		103	59-131			
<b>Matrix Spike (B7G0302-MS2)</b>					<b>Source: Y707001-04</b>		Prepared: 07/03/2017 Analyzed: 07/03/2017			
Diesel (C10-C28)	1130	50.0	mg/kg	1000	348	78.2	53-125			
Residual Range Organics (C28-C40)	1010	200	"	1000	108	90.0	47-133			
Surrogate: o-Terphenyl	52		"	50.0		103	59-131			
<b>Matrix Spike (B7G0302-MS3)</b>					<b>Source: Y707001-05</b>		Prepared: 07/03/2017 Analyzed: 07/03/2017			
Diesel (C10-C28)	1010	50.0	mg/kg	1000	15.9	99.5	53-125			
Residual Range Organics (C28-C40)	983	200	"	1000	26.9	95.6	47-133			
Surrogate: o-Terphenyl	51		"	50.0		102	59-131			
<b>Matrix Spike (B7G0302-MS4)</b>					<b>Source: Y707001-06</b>		Prepared: 07/03/2017 Analyzed: 07/03/2017			
Diesel (C10-C28)	826	50.0	mg/kg	1000	ND	82.6	53-125			
Residual Range Organics (C28-C40)	813	200	"	1000	20.6	79.2	47-133			
Surrogate: o-Terphenyl	43		"	50.0		85.4	59-131			



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## 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 B7G0302 - EPA 3550B</b>										
<b>Matrix Spike (B7G0302-MS4)</b>		<b>Source: Y707001-06</b>			Prepared: 07/03/2017 Analyzed: 07/03/2017					
<b>Matrix Spike (B7G0302-MS5)</b>		<b>Source: Y707001-07</b>			Prepared: 07/03/2017 Analyzed: 07/03/2017					
Diesel (C10-C28)	907	50.0	mg/kg	1000	175	73.2	53-125			
Residual Range Organics (C28-C40)	854	200	"	1000	87.0	76.7	47-133			
Surrogate: o-Terphenyl	44		"	50.0		87.6	59-131			
<b>Matrix Spike (B7G0302-MS6)</b>		<b>Source: Y707001-08</b>			Prepared: 07/03/2017 Analyzed: 07/03/2017					
Diesel (C10-C28)	860	50.0	mg/kg	1000	42.2	81.8	53-125			
Residual Range Organics (C28-C40)	833	200	"	1000	28.5	80.5	47-133			
Surrogate: o-Terphenyl	44		"	50.0		88.7	59-131			
<b>Matrix Spike Dup (B7G0302-MSD1)</b>		<b>Source: Y707001-03</b>			Prepared: 07/03/2017 Analyzed: 07/03/2017					
Diesel (C10-C28)	1040	50.0	mg/kg	1000	31.1	101	53-125	2.46	20	
Residual Range Organics (C28-C40)	1020	200	"	1000	16.0	100	47-133	3.16	20	
Surrogate: o-Terphenyl	53		"	50.0		105	59-131			
<b>Matrix Spike Dup (B7G0302-MSD2)</b>		<b>Source: Y707001-04</b>			Prepared: 07/03/2017 Analyzed: 07/03/2017					
Diesel (C10-C28)	1130	50.0	mg/kg	1000	348	78.6	53-125	0.538	20	
Residual Range Organics (C28-C40)	1020	200	"	1000	108	91.5	47-133	1.59	20	
Surrogate: o-Terphenyl	51		"	50.0		101	59-131			
<b>Matrix Spike Dup (B7G0302-MSD3)</b>		<b>Source: Y707001-05</b>			Prepared: 07/03/2017 Analyzed: 07/03/2017					
Diesel (C10-C28)	1020	50.0	mg/kg	1000	15.9	101	53-125	1.21	20	
Residual Range Organics (C28-C40)	1000	200	"	1000	26.9	97.8	47-133	2.24	20	
Surrogate: o-Terphenyl	52		"	50.0		103	59-131			
<b>Matrix Spike Dup (B7G0302-MSD4)</b>		<b>Source: Y707001-06</b>			Prepared: 07/03/2017 Analyzed: 07/03/2017					
Diesel (C10-C28)	833	50.0	mg/kg	1000	ND	83.3	53-125	0.869	20	

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## 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 B7G0302 - EPA 3550B</b>										
<b>Matrix Spike Dup (B7G0302-MSD4)</b>		<b>Source: Y707001-06</b>			Prepared: 07/03/2017 Analyzed: 07/03/2017					
Residual Range Organics (C28-C40)	827	200	mg/kg	1000	20.6	80.6	47-133	1.79	20	
Surrogate: o-Terphenyl	42		"	50.0		84.4	59-131			
<b>Matrix Spike Dup (B7G0302-MSD5)</b>		<b>Source: Y707001-07</b>			Prepared: 07/03/2017 Analyzed: 07/03/2017					
Diesel (C10-C28)	898	50.0	mg/kg	1000	175	72.3	53-125	1.22	20	
Residual Range Organics (C28-C40)	842	200	"	1000	87.0	75.5	47-133	1.54	20	
Surrogate: o-Terphenyl	46		"	50.0		92.6	59-131			
<b>Matrix Spike Dup (B7G0302-MSD6)</b>		<b>Source: Y707001-08</b>			Prepared: 07/03/2017 Analyzed: 07/03/2017					
Diesel (C10-C28)	847	50.0	mg/kg	1000	42.2	80.5	53-125	1.61	20	
Residual Range Organics (C28-C40)	815	200	"	1000	28.5	78.6	47-133	2.29	20	
Surrogate: o-Terphenyl	42		"	50.0		83.2	59-131			

Origins Laboratory, Inc.



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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: 89334975

Project: KMG - 16-80-40-4" Line Release

### Notes and Definitions

U Sample is Non-Detect.

S-DUP Duplicate analysis confirmed surrogate failure due to matrix effects.

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.*



July 06, 2017

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

**Project Name - KMG - 16 - 80- 40 -4" Gathering  
Line**

**Project Number - 42101067**

Attached are your analytical results for KMG - 16 - 80- 40 -4" Gathering Line received by Origins Laboratory, Inc. July 05, 2017. This project is associated with Origins project number Y707033-01.

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  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 42101067  
Project: KMG - 16 - 80- 40 -4" Gathering Line

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS01	Y707033-01	Soil	July 5, 2017 11:01	07/05/2017 13:02
CS02	Y707033-02	Soil	July 5, 2017 11:02	07/05/2017 13:02
CS03	Y707033-03	Soil	July 5, 2017 11:03	07/05/2017 13:02
CS04	Y707033-04	Soil	July 5, 2017 11:04	07/05/2017 13:02
CS05	Y707033-05	Soil	July 5, 2017 11:04	07/05/2017 13:02
CS06	Y707033-06	Soil	July 5, 2017 11:05	07/05/2017 13:02
CS07	Y707033-07	Soil	July 5, 2017 11:05	07/05/2017 13:02
CS08	Y707033-08	Soil	July 5, 2017 11:06	07/05/2017 13:02
CS09	Y707033-09	Soil	July 5, 2017 11:06	07/05/2017 13:02
CS10	Y707033-10	Soil	July 5, 2017 11:07	07/05/2017 13:02
CS11	Y707033-11	Soil	July 5, 2017 11:07	07/05/2017 13:02
CS12	Y707033-12	Soil	July 5, 2017 11:08	07/05/2017 13:02
CS13	Y707033-13	Soil	July 5, 2017 11:08	07/05/2017 13:02
CS14	Y707033-14	Soil	July 5, 2017 11:09	07/05/2017 13:02

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: 42101067

Project: KMG - 16 - 80- 40 -4" Gathering Line

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS15	Y707033-15	Soil	July 5, 2017 11:09	07/05/2017 13:02
CS16	Y707033-16	Soil	July 5, 2017 11:09	07/05/2017 13:02
CS17	Y707033-17	Soil	July 5, 2017 11:10	07/05/2017 13:02
CS18	Y707033-18	Soil	July 5, 2017 11:10	07/05/2017 13:02
CS19	Y707033-19	Soil	July 5, 2017 11:10	07/05/2017 13:02
CS20	Y707033-20	Soil	July 5, 2017 11:11	07/05/2017 13:02
CS21	Y707033-21	Soil	July 5, 2017 11:11	07/05/2017 13:02
North Trough	Y707033-22	Water	July 5, 2017 11:35	07/05/2017 13:02
South Trough	Y707033-23	Water	July 5, 2017 11:40	07/05/2017 13:02

Origins Laboratory, Inc.



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Bob Cornez  
Project Number: 42101067  
Project: KMG - 16 - 80- 40 -4" Gathering Line

**ORIGINS**

LABORATORY, INC.

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page | of 3

Client: APC

Address:

Project Manager: Robert Conner

Project Name: 16-80-40-4" Gathering Line

Project Number: 42101067

Telephone Number:

Samples Collected By: Eric Siegel

Email Address: rconner@estimation-gas.com

Fax: 303.265.9645

Phone: 303.433.1322

Denver, CO 80211

1725 Elk Place

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 #			Other	
C501	7/5/17	1101	1					X			X	DR1015 GRTX 4260	1	
C502		1102	1										2	
C503		1103											3	
C504		1104											4	
C505		1104											5	
C506		1105											6	
C507		1105											7	
C508		1106											8	
C509		1106											9	
C510		1107	↓										10	
Relinquished By: <i>G.A. King</i>	Date: 7/5/17		Time: 1312	Received By: <i>[Signature]</i>	Date: 7/5/17	Time: 1312	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> Standard <input type="checkbox"/>							
Relinquished by:	Date:		Time:	Received By:	Date:	Time:								

Temp Received: 56°C

Date Results Needed

Origins Laboratory, Inc.

Jeff Pellipini

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 42101067  
Project: KMG - 16 - 80- 40 -4" Gathering Line

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page 2 of 3

4707033

Client: APC

Project Manager: Robert Cornez

Project Name: 16-80-40-4" Gathering Line

Project Number: 42101067

Samples Collected By: Eric Siegel

Address:

Telephone Number:

Email Address:

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summo	Other	8015	
CS11	7/5/17	1107	1	X				X					
CS12		1108											
CS13		1108											
CS14		1109											
CS15		1109											
CS16		1109											
CS17		1110											
CS18		1110											
CS19		1110											
CS20		1111											

Relinquished By: *Eric Siegel*

Relinquished By:

Date: 7/5/17

Date:

Time: 1111

Time:

Received By: *[Signature]*

Received By:

Date: 7-5-17

Date:

Time: 1302

Time:

Turnaround Time: Same Day ☒ 24 Hr ☐ 48 Hr ☐ Standard ☐

1725 Elk Place

Denver, CO 80211

Phone: 303.433.1322

Fax: 303.265.9645

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: 42101067  
Project: KMG - 16 - 80- 40 -4" Gathering Line

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page 3 of 3

Project Manager: Robert Cornez

Project Name: 16-80-40-4" Gathering Line

Project Number: 42101067

Samples Collected By: Eric Siegel

Client: APL

Address: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

Email Address: \_\_\_\_\_

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 <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other	8015	Deionized	8260	
C521	7/5/17	1111	1	X				X				X	X		1
North Trough	↓	1135	3	X								X	X		2
South Trough		1140	3	X								X	X		3
															4
															5
															6
															7
															8
															9
															10

Relinquished By: E.A. Doyle

Relinquished By: \_\_\_\_\_

Date: 7/5/17

Date: \_\_\_\_\_

Time: 1112

Time: \_\_\_\_\_

Received By: [Signature]

Received By: \_\_\_\_\_

Date: 7-5-17

Date: \_\_\_\_\_

Time: 1312

Time: \_\_\_\_\_

Turnaround Time: ☒ 24 Hr ☐ 48 Hr ☐ 72 Hr

Standard ☐

Temp Received: 56°C Date Results Needed: \_\_\_\_\_

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: 42101067  
Project: KMG - 16 - 80- 40 -4" Gathering Line

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 7707083

Client: Truman

Client Project ID: rmfr-16-80-40-4" Gathering Line

Checklist Completed by: Duke

Shipped Via: 42  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 7-5-11 13:17

Airbill #: 218

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

Cooler Number/Temperature: 15.6 °C 1 °C 1 °C 1 °C

Thermometer ID: 1406 17933

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 checked="" type="checkbox"/>	<input 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)

7-5-11 819  
Date/Time Reviewed

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: 42101067  
Project: KMG - 16 - 80- 40 -4" Gathering Line

**CS01**  
**7/5/2017 11:01:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y707033-01 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	43.2	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	78.7 %	59-131			"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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	108 %	70-130			"	"	"	
Surrogate: Toluene-d8	92.9 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.4 %	70-130			"	"	"	

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 42101067  
Project: KMG - 16 - 80- 40 -4" Gathering Line

## CS02

7/5/2017 11:02:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707033-02 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	45.7	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	
Residual Range Organics (C28-C40)	252	100	"	"	"	"	"	

Surrogate: o-Terphenyl	80.3 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	U
Benzene	ND	0.002	"	"	"	"	07/05/2017	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"	
Surrogate: Toluene-d8	95.2 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.9 %	70-130			"	"	"	

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## CS03

7/5/2017 11:03:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707033-03 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	171	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	
Residual Range Organics (C28-C40)	157	100	"	"	"	"	"	

Surrogate: o-Terphenyl	90.7 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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	146 %	70-130			"	"	"	S-07
Surrogate: Toluene-d8	91.2 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.5 %	70-130			"	"	"	

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Denver CO 80211

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## CS04

7/5/2017 11:04:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707033-04 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	77.7	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	
Residual Range Organics (C28-C40)	106	100	"	"	"	"	"	

Surrogate: o-Terphenyl	80.9 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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	146 %	70-130			"	"	"	S-07
Surrogate: Toluene-d8	89.1 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	

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## CS05

7/5/2017 11:04:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707033-05 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	43.0	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	71.3 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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	135 %	70-130			"	"	"	S-07
Surrogate: Toluene-d8	89.9 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.9 %	70-130			"	"	"	

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Project: KMG - 16 - 80- 40 -4" Gathering Line

## CS06

7/5/2017 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707033-06 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	41.3	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	73.4 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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	140 %	70-130			"	"	"	S-07
Surrogate: Toluene-d8	90.6 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.1 %	70-130			"	"	"	

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Project: KMG - 16 - 80- 40 -4" Gathering Line

## CS07

7/5/2017 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707033-07 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	41.7	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	71.2 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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	142 %	70-130			"	"	"	S-07
Surrogate: Toluene-d8	94.7 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.6 %	70-130			"	"	"	

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## CS08

7/5/2017 11:06:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707033-08 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	27.2	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	83.1 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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	143 %	70-130			"	"	"	S-07
Surrogate: Toluene-d8	91.7 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.1 %	70-130			"	"	"	

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6899 Pecos Street, Unit C  
Denver CO 80211

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Project: KMG - 16 - 80- 40 -4" Gathering Line

## CS09

7/5/2017 11:06:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707033-09 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	43.5	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	
Residual Range Organics (C28-C40)	143	100	"	"	"	"	"	

Surrogate: o-Terphenyl	81.3 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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	144 %	70-130			"	"	"	S-07
Surrogate: Toluene-d8	93.2 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.1 %	70-130			"	"	"	

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 42101067  
Project: KMG - 16 - 80- 40 -4" Gathering Line

**CS10**  
**7/5/2017 11:07:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y707033-10 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	31.4	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	65.5 %	59-131			"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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	145 %	70-130			"	"	"	S-07
Surrogate: Toluene-d8	92.3 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.5 %	70-130			"	"	"	

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 42101067  
Project: KMG - 16 - 80- 40 -4" Gathering Line

**CS11**  
**7/5/2017 11:07:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y707033-11 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	28.1	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	80.7 %	59-131			"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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	135 %	70-130			"	"	"	S-07
Surrogate: Toluene-d8	92.0 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.0 %	70-130			"	"	"	

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
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Project: KMG - 16 - 80- 40 -4" Gathering Line

**CS12**  
**7/5/2017 11:08:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y707033-12 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	38.6	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	80.1 %	59-131			"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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	122 %	70-130			"	"	"	
Surrogate: Toluene-d8	94.4 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.6 %	70-130			"	"	"	

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Denver CO 80211

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**CS13**  
**7/5/2017 11:08:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y707033-13 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	<b>86.9</b>	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	
Residual Range Organics (C28-C40)	<b>571</b>	100	"	"	"	"	"	

Surrogate: o-Terphenyl	89.7 %	59-131			"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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	142 %	70-130			"	"	"	S-07
Surrogate: Toluene-d8	98.3 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.6 %	70-130			"	"	"	

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Denver CO 80211

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Project: KMG - 16 - 80- 40 -4" Gathering Line

**CS14**  
**7/5/2017 11:09:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y707033-14 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	26.4	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	
Residual Range Organics (C28-C40)	127	100	"	"	"	"	"	

Surrogate: o-Terphenyl	72.0 %	59-131			"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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	135 %	70-130			"	"	"	S-07
Surrogate: Toluene-d8	94.7 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.5 %	70-130			"	"	"	

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Denver CO 80211

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Project: KMG - 16 - 80- 40 -4" Gathering Line

**CS15**  
**7/5/2017 11:09:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y707033-15 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	64.5	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	84.4 %	59-131			"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0504	07/05/2017	07/06/2017	U
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	98.3 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.6 %	70-130			"	"	"	

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 42101067  
Project: KMG - 16 - 80- 40 -4" Gathering Line

**CS16**  
**7/5/2017 11:09:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y707033-16 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 83.2 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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 137 % 70-130 " " " S-07  
Surrogate: Toluene-d8 91.8 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

Origins Laboratory, Inc.



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Denver CO 80211

Bob Cornez  
Project Number: 42101067  
Project: KMG - 16 - 80- 40 -4" Gathering Line

CS17  
7/5/2017 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y707033-17 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	69.7 %	59-131			"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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	136 %	70-130			"	"	"	S-07
Surrogate: Toluene-d8	85.6 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 42101067  
Project: KMG - 16 - 80- 40 -4" Gathering Line

**CS18**  
**7/5/2017 11:10:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y707033-18 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	124	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	59.5 %	59-131			"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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	143 %	70-130			"	"	"	S-07
Surrogate: Toluene-d8	89.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.1 %	70-130			"	"	"	

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Bob Cornez  
Project Number: 42101067  
Project: KMG - 16 - 80- 40 -4" Gathering Line

**CS19**  
**7/5/2017 11:10:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y707033-19 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	29.6	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	
Residual Range Organics (C28-C40)	110	100	"	"	"	"	"	

Surrogate: o-Terphenyl	69.8 %	59-131			"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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	144 %	70-130			"	"	"	S-07
Surrogate: Toluene-d8	90.1 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 42101067  
Project: KMG - 16 - 80- 40 -4" Gathering Line

## CS20

7/5/2017 11:11:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707033-20 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 81.8 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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 149 % 70-130 " " " S-07  
Surrogate: Toluene-d8 97.0 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 42101067  
Project: KMG - 16 - 80- 40 -4" Gathering Line

**CS21**  
**7/5/2017 11:11:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y707033-21 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	<b>28.0</b>	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	
Residual Range Organics (C28-C40)	<b>216</b>	100	"	"	"	"	"	

Surrogate: o-Terphenyl	89.5 %	59-131			"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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	141 %	70-130			"	"	"	S-07
Surrogate: Toluene-d8	91.2 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 42101067  
Project: KMG - 16 - 80- 40 -4" Gathering Line

**North Trough**  
**7/5/2017 11:35:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y707033-22 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B7G0502	07/05/2017	07/05/2017	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	97.8 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.5 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Denver CO 80211

Bob Cornez  
Project Number: 42101067  
Project: KMG - 16 - 80- 40 -4" Gathering Line

**South Trough**  
**7/5/2017 11:40:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y707033-23 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B7G0502	07/05/2017	07/05/2017	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	98.1 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.6 %	84-114			"	"	"	

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 42101067  
Project: KMG - 16 - 80- 40 -4" Gathering Line

**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 B7G0502 - EPA 5030B (Water)</b>										
<b>Blank (B7G0502-BLK1)</b>					Prepared: 07/05/2017 Analyzed: 07/05/2017					
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		96.4	84-121			
Surrogate: Toluene-d8	65		"	62.5		103	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.2	84-114			

Origins Laboratory, Inc.



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Denver CO 80211

Bob Cornez  
Project Number: 42101067  
Project: KMG - 16 - 80- 40 -4" Gathering Line

**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 B7G0502 - EPA 5030B (Water)**

**LCS (B7G0502-BS1)**

Prepared: 07/05/2017 Analyzed: 07/05/2017

Benzene	57.4	1.00	ug/L	50.0	115	73.3-129
Toluene	59.3	1.00	"	50.0	119	76.2-123
Ethylbenzene	56.0	1.00	"	50.0	112	73.6-130
m,p-Xylene	120	2.00	"	100	120	76.1-126
o-Xylene	55.5	1.00	"	50.0	111	76.6-124
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5	98.2	84-121
Surrogate: Toluene-d8	62		"	62.5	98.7	85-115
Surrogate: 4-Bromofluorobenzene	63		"	62.5	100	84-114

Origins Laboratory, Inc.



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Denver CO 80211

Bob Cornez  
Project Number: 42101067  
Project: KMG - 16 - 80- 40 -4" Gathering Line

**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 B7G0502 - EPA 5030B (Water)**

Matrix Spike (B7G0502-MS1)		Source: Y707002-01			Prepared: 07/05/2017 Analyzed: 07/05/2017					
Benzene	188	4.00	ug/L	200	ND	94.2	74-130			
Toluene	198	4.00	"	200	ND	98.9	73-131			
Ethylbenzene	187	4.00	"	200	1.92	92.4	76-132			
m,p-Xylene	415	8.00	"	400	17.5	99.4	69-139			
o-Xylene	189	4.00	"	200	1.52	93.9	74-131			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.6	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	84-114			

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Denver CO 80211

Bob Cornez  
Project Number: 42101067  
Project: KMG - 16 - 80- 40 -4" Gathering Line

**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 B7G0502 - EPA 5030B (Water)**

Matrix Spike Dup (B7G0502-MSD1)		Source: Y707002-01			Prepared: 07/05/2017 Analyzed: 07/05/2017					
Benzene	187	4.00	ug/L	200	ND	93.5	74-130	0.724	20	
Toluene	192	4.00	"	200	ND	96.2	73-131	2.85	20	
Ethylbenzene	182	4.00	"	200	1.92	89.8	76-132	2.74	20	
m,p-Xylene	397	8.00	"	400	17.5	94.8	69-139	4.55	20	
o-Xylene	185	4.00	"	200	1.52	91.8	74-131	2.31	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.8	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 42101067  
Project: KMG - 16 - 80- 40 -4" Gathering Line

**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 B7G0504 - EPA 5030 (soil)</b>										
<b>Blank (B7G0504-BLK1)</b>					Prepared: 07/05/2017 Analyzed: 07/05/2017					
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	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.6	70-130			

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 42101067  
Project: KMG - 16 - 80- 40 -4" Gathering Line

**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 B7G0504 - EPA 5030 (soil)</b>										
<b>Blank (B7G0504-BLK2)</b>					Prepared: 07/05/2017 Analyzed: 07/05/2017					
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		102	70-130			
Surrogate: Toluene-d8	59		"	62.5		93.8	70-130			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		91.5	70-130			

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Bob Cornez  
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Project: KMG - 16 - 80- 40 -4" Gathering Line

**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 B7G0504 - EPA 5030 (soil)</b>										
<b>LCS (B7G0504-BS1)</b>					Prepared: 07/05/2017 Analyzed: 07/05/2017					
Benzene	0.106	0.002	mg/kg	0.100		106	77.1-124			
Toluene	0.100	0.002	"	0.100		100	74.5-128			
Ethylbenzene	0.093	0.002	"	0.100		93.4	66.4-127			
m,p-Xylene	0.185	0.004	"	0.200		92.4	76.6-124			
o-Xylene	0.093	0.002	"	0.100		92.6	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		95.8	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.3	70-130			

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Denver CO 80211

Bob Cornez  
Project Number: 42101067  
Project: KMG - 16 - 80- 40 -4" Gathering Line

**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 B7G0504 - EPA 5030 (soil)</b>										
<b>LCS (B7G0504-BS2)</b>					Prepared: 07/05/2017 Analyzed: 07/05/2017					
Benzene	0.104	0.002	mg/kg	0.100		104	77.1-124			
Toluene	0.100	0.002	"	0.100		100	74.5-128			
Ethylbenzene	0.093	0.002	"	0.100		92.6	66.4-127			
m,p-Xylene	0.181	0.004	"	0.200		90.4	76.6-124			
o-Xylene	0.093	0.002	"	0.100		92.7	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		96.9	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.3	70-130			

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Project: KMG - 16 - 80- 40 -4" Gathering Line

**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 B7G0504 - EPA 5030 (soil)**

Matrix Spike (B7G0504-MS1)		Source: Y707033-01			Prepared: 07/05/2017 Analyzed: 07/05/2017					
Benzene	0.096	0.002	mg/kg	0.100	ND	96.3	71.8-126			
Toluene	0.092	0.002	"	0.100	ND	91.7	65.1-130			
Ethylbenzene	0.085	0.002	"	0.100	ND	84.9	62.2-130			
m,p-Xylene	0.168	0.004	"	0.200	ND	83.9	46.5-137			
o-Xylene	0.087	0.002	"	0.100	ND	86.6	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.4	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 42101067  
Project: KMG - 16 - 80- 40 -4" Gathering Line

**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 B7G0504 - EPA 5030 (soil)**

Matrix Spike (B7G0504-MS2)		Source: Y707033-02			Prepared: 07/05/2017 Analyzed: 07/05/2017					
Benzene	0.094	0.002	mg/kg	0.100	ND	94.1	71.8-126			
Toluene	0.088	0.002	"	0.100	ND	88.1	65.1-130			
Ethylbenzene	0.083	0.002	"	0.100	ND	82.9	62.2-130			
m,p-Xylene	0.162	0.004	"	0.200	ND	81.1	46.5-137			
o-Xylene	0.084	0.002	"	0.100	ND	84.2	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.2	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.4	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 42101067  
Project: KMG - 16 - 80- 40 -4" Gathering Line

**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 B7G0504 - EPA 5030 (soil)**

Matrix Spike Dup (B7G0504-MSD1)		Source: Y707033-01			Prepared: 07/05/2017 Analyzed: 07/05/2017					
Benzene	0.092	0.002	mg/kg	0.100	ND	92.0	71.8-126	4.54	11.3	
Toluene	0.086	0.002	"	0.100	ND	85.9	65.1-130	6.55	15.4	
Ethylbenzene	0.082	0.002	"	0.100	ND	82.2	62.2-130	3.21	19.6	
m,p-Xylene	0.161	0.004	"	0.200	ND	80.7	46.5-137	3.85	19.2	
o-Xylene	0.084	0.002	"	0.100	ND	84.2	54.2-134	2.83	17.9	
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.6	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.2	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 42101067  
Project: KMG - 16 - 80- 40 -4" Gathering Line

**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 B7G0504 - EPA 5030 (soil)**

Matrix Spike Dup (B7G0504-MSD2)		Source: Y707033-02			Prepared: 07/05/2017 Analyzed: 07/05/2017					
Benzene	0.094	0.002	mg/kg	0.100	ND	93.9	71.8-126	0.234	11.3	
Toluene	0.089	0.002	"	0.100	ND	89.0	65.1-130	0.949	15.4	
Ethylbenzene	0.082	0.002	"	0.100	ND	82.0	62.2-130	1.09	19.6	
m,p-Xylene	0.162	0.004	"	0.200	ND	81.0	46.5-137	0.0864	19.2	
o-Xylene	0.082	0.002	"	0.100	ND	82.5	54.2-134	2.04	17.9	
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.0	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 42101067  
Project: KMG - 16 - 80- 40 -4" Gathering Line

**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 B7G0505 - EPA 3550B**

**Blank (B7G0505-BLK1)**

Prepared: 07/05/2017 Analyzed: 07/06/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	38		"	50.0		76.5	59-131			

**Blank (B7G0505-BLK2)**

Prepared: 07/05/2017 Analyzed: 07/05/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	46		"	50.0		92.9	59-131			

**LCS (B7G0505-BS1)**

Prepared: 07/05/2017 Analyzed: 07/05/2017

Diesel (C10-C28)	993	50.0	mg/kg	1000		99.3	64-121			
Residual Range Organics (C28-C40)	936	200	"	1000		93.6	58-124			
Surrogate: o-Terphenyl	46		"	50.0		91.8	59-131			

**LCS (B7G0505-BS2)**

Prepared: 07/05/2017 Analyzed: 07/05/2017

Diesel (C10-C28)	997	50.0	mg/kg	1000		99.7	64-121			
Residual Range Organics (C28-C40)	982	200	"	1000		98.2	58-124			
Surrogate: o-Terphenyl	49		"	50.0		97.7	59-131			

**Matrix Spike (B7G0505-MS1)**

**Source: Y707033-01**

Prepared: 07/05/2017 Analyzed: 07/05/2017

Diesel (C10-C28)	1020	50.0	mg/kg	1000	43.2	98.0	53-125			
Residual Range Organics (C28-C40)	996	200	"	1000	67.6	92.8	47-133			

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 42101067  
Project: KMG - 16 - 80- 40 -4" Gathering Line

## 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 B7G0505 - EPA 3550B</b>										
<b>Matrix Spike (B7G0505-MS1)</b>		<b>Source: Y707033-01</b>			Prepared: 07/05/2017 Analyzed: 07/05/2017					
Surrogate: o-Terphenyl	46		mg/kg	50.0		92.4	59-131			
<b>Matrix Spike (B7G0505-MS2)</b>		<b>Source: Y707033-02</b>			Prepared: 07/05/2017 Analyzed: 07/05/2017					
Diesel (C10-C28)	944	50.0	mg/kg	1000	45.7	89.8	53-125			
Residual Range Organics (C28-C40)	871	200	"	1000	252	61.9	47-133			
Surrogate: o-Terphenyl	76		"	50.0		152	59-131			S-04
<b>Matrix Spike Dup (B7G0505-MSD1)</b>		<b>Source: Y707033-01</b>			Prepared: 07/05/2017 Analyzed: 07/05/2017					
Diesel (C10-C28)	1030	50.0	mg/kg	1000	43.2	98.6	53-125	0.555	20	
Residual Range Organics (C28-C40)	1020	200	"	1000	67.6	95.4	47-133	2.76	20	
Surrogate: o-Terphenyl	49		"	50.0		97.3	59-131			
<b>Matrix Spike Dup (B7G0505-MSD2)</b>		<b>Source: Y707033-02</b>			Prepared: 07/05/2017 Analyzed: 07/05/2017					
Diesel (C10-C28)	1030	50.0	mg/kg	1000	45.7	98.3	53-125	9.01	20	
Residual Range Organics (C28-C40)	1050	200	"	1000	252	79.9	47-133	25.4	20	QR-02
Surrogate: o-Terphenyl	48		"	50.0		96.2	59-131			

Origins Laboratory, Inc.



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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: 42101067

Project: KMG - 16 - 80- 40 -4" Gathering Line

### Notes and Definitions

U Sample is Non-Detect.

S-07 High surrogate in sample, however sample is non-detect. High surrogate indicates result values are biased high.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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.

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



July 08, 2017

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

**Project Name - KMG - 16-80-40-4" Line Release**

**Project Number - 89334975**

Attached are your analytical results for KMG - 16-80-40-4" Line Release received by Origins Laboratory, Inc. July 07, 2017. This project is associated with Origins project number Y707079-01.

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  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS11-R	Y707079-01	Soil	July 7, 2017 13:49	07/07/2017 17:47
SS25-R	Y707079-02	Soil	July 7, 2017 13:50	07/07/2017 17:47
SS29-R	Y707079-03	Soil	July 7, 2017 13:30	07/07/2017 17:47
SS66-R	Y707079-04	Soil	July 7, 2017 13:33	07/07/2017 17:47
SS78-R	Y707079-05	Soil	July 7, 2017 13:45	07/07/2017 17:47
SS89-R	Y707079-06	Soil	July 7, 2017 14:19	07/07/2017 17:47
SS90-R	Y707079-07	Soil	July 7, 2017 14:20	07/07/2017 17:47

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: 89334975  
Project: KMG - 16-80-40-4" Line Release

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1701019 page 1 of 1

Client: APC  
Project Manager: Robert Cornez  
Project Name: 16-80-40-4" Line Release  
Project Number: 89334975  
Samples Collected By: Eric Siegel

Telephone Number:  
Email Address: rcornez@tasman-geo.com  
Sam.LaRue@cas-lar.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis			Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa	Canister #	Other	
SS11-R	7/7/17	1344	1	X				X					1
SS25-R		1350	1	X				X					2
SS29-R		1330	1	X				X					3
SS66-R		1333	1	X				X					4
SS78-R		1345	1	X				X					5
SS89-R		1419	1	X				X					6
SS90-R		1420	1	X				X					7
													8
													9
													10

Relinquished By: G. A. Siegel Date: 7/7/17 Time: 1447  
Relinquished By: Date: Date: Time: 1447

Temp Received: 28°C Date Results Needed

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: 89334975  
Project: KMG - 16-80-40-4" Line Release

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 70170709

Client: Tasman

Client Project ID: KMG-16-80-40-4" Line Release

Checklist Completed by: DBM

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

Date/time completed: 7-7-17 1816

Airbill #: N/A

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

Cooler Number/Temperature: 1 2.2 °C 1 °C 1 °C (Describe) \_\_\_\_\_ °C

Thermometer ID: 1004

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 type="checkbox"/>	<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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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) DBM

Date/Time Reviewed 7-7-17 1816

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS11-R

7/7/2017 1:49:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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### Origins Laboratory, Inc. Y707079-01 (Soil)

#### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0704	07/07/2017	07/07/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 83.2 % 59-131 " " "

#### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0701	07/07/2017	07/07/2017	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 96.5 % 70-130 " " "  
Surrogate: Toluene-d8 101 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS25-R

7/7/2017 1:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707079-02 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	67.7	25.0	mg/kg	1	B7G0704	07/07/2017	07/07/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	87.1 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0701	07/07/2017	07/07/2017	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	102 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.7 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS29-R

7/7/2017 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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### Origins Laboratory, Inc. Y707079-03 (Soil)

#### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0704	07/07/2017	07/07/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	93.6 %	59-131			"	"	"	
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#### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0701	07/07/2017	07/07/2017	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	98.1 %	70-130			"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS66-R

7/7/2017 1:33:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707079-04 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0704	07/07/2017	07/07/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 90.6 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0701	07/07/2017	07/07/2017	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 99.3 % 70-130 " " "  
Surrogate: Toluene-d8 102 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS78-R

7/7/2017 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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### Origins Laboratory, Inc. Y707079-05 (Soil)

#### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0704	07/07/2017	07/07/2017	U
Residual Range Organics (C28-C40)	103	100	"	"	"	"	"	

Surrogate: o-Terphenyl	81.8 %	59-131			"	"	"	
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#### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0701	07/07/2017	07/07/2017	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	122 %	70-130			"	"	"	
Surrogate: Toluene-d8	95.7 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.4 %	70-130			"	"	"	

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS89-R

7/7/2017 2:19:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707079-06 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	40.7	25.0	mg/kg	1	B7G0704	07/07/2017	07/07/2017	
Residual Range Organics (C28-C40)	198	100	"	"	"	"	"	

Surrogate: o-Terphenyl	86.3 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0701	07/07/2017	07/07/2017	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	104 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## SS90-R

7/7/2017 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707079-07 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	41.5	25.0	mg/kg	1	B7G0704	07/07/2017	07/07/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	73.9 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0701	07/07/2017	07/07/2017	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	102 %	70-130			"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B7G0701 - EPA 5030 (soil)</b>										
<b>Blank (B7G0701-BLK1)</b>					Prepared: 07/07/2017 Analyzed: 07/07/2017					
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	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	68		"	62.5		109	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.2	70-130			

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Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B7G0701 - EPA 5030 (soil)</b>										
<b>Blank (B7G0701-BLK2)</b>					Prepared: 07/07/2017 Analyzed: 07/07/2017					
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	59		ug/kg	62.5		94.2	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.5	70-130			

Origins Laboratory, Inc.



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Denver CO 80211

Bob Cornez  
Project Number: 89334975  
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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 B7G0701 - EPA 5030 (soil)</b>										
<b>LCS (B7G0701-BS1)</b>					Prepared: 07/07/2017 Analyzed: 07/07/2017					
Benzene	0.105	0.002	mg/kg	0.100		105	77.1-124			
Toluene	0.097	0.002	"	0.100		97.3	74.5-128			
Ethylbenzene	0.109	0.002	"	0.100		109	66.4-127			
m,p-Xylene	0.215	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	62		ug/kg	62.5		99.8	70-130			
Surrogate: Toluene-d8	59		"	62.5		93.7	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B7G0701 - EPA 5030 (soil)</b>										
<b>LCS (B7G0701-BS2)</b>					Prepared: 07/07/2017 Analyzed: 07/07/2017					
Benzene	0.107	0.002	mg/kg	0.100		107	77.1-124			
Toluene	0.111	0.002	"	0.100		111	74.5-128			
Ethylbenzene	0.107	0.002	"	0.100		107	66.4-127			
m,p-Xylene	0.211	0.004	"	0.200		106	76.6-124			
o-Xylene	0.114	0.002	"	0.100		114	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		95.4	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	70-130			

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B7G0701 - EPA 5030 (soil)**

Matrix Spike (B7G0701-MS1)		Source: Y707031-01			Prepared: 07/07/2017 Analyzed: 07/07/2017					
Benzene	0.101	0.002	mg/kg	0.100	ND	101	71.8-126			
Toluene	0.099	0.002	"	0.100	ND	98.8	65.1-130			
Ethylbenzene	0.091	0.002	"	0.100	ND	90.6	62.2-130			
m,p-Xylene	0.183	0.004	"	0.200	ND	91.3	46.5-137			
o-Xylene	0.095	0.002	"	0.100	ND	95.3	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.9	70-130			

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B7G0701 - EPA 5030 (soil)**

Matrix Spike (B7G0701-MS2)		Source: Y707078-01			Prepared: 07/07/2017 Analyzed: 07/07/2017					
Benzene	0.111	0.002	mg/kg	0.100	ND	111	71.8-126			
Toluene	0.111	0.002	"	0.100	0.026	85.9	65.1-130			
Ethylbenzene	0.112	0.002	"	0.100	ND	112	62.2-130			
m,p-Xylene	0.221	0.004	"	0.200	ND	111	46.5-137			
o-Xylene	0.120	0.002	"	0.100	ND	120	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.7	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.0	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B7G0701 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B7G0701-MSD1)</b>		<b>Source: Y707031-01</b>			Prepared: 07/07/2017 Analyzed: 07/07/2017					
Benzene	0.091	0.002	mg/kg	0.100	ND	91.2	71.8-126	10.0	11.3	
Toluene	0.086	0.002	"	0.100	ND	85.9	65.1-130	14.0	15.4	
Ethylbenzene	0.087	0.002	"	0.100	ND	86.5	62.2-130	4.65	19.6	
m,p-Xylene	0.171	0.004	"	0.200	ND	85.4	46.5-137	6.65	19.2	
o-Xylene	0.086	0.002	"	0.100	ND	86.4	54.2-134	9.84	17.9	
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.7	70-130			

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Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B7G0701 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B7G0701-MSD2)</b>		<b>Source: Y707078-01</b>			Prepared: 07/07/2017 Analyzed: 07/07/2017					
Benzene	0.115	0.002	mg/kg	0.100	ND	115	71.8-126	3.17	11.3	
Toluene	0.113	0.002	"	0.100	0.026	87.8	65.1-130	1.69	15.4	
Ethylbenzene	0.115	0.002	"	0.100	ND	115	62.2-130	2.30	19.6	
m,p-Xylene	0.230	0.004	"	0.200	ND	115	46.5-137	3.92	19.2	
o-Xylene	0.120	0.002	"	0.100	ND	120	54.2-134	0.217	17.9	
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.9	70-130			

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B7G0704 - EPA 3550B**

**Blank (B7G0704-BLK1)**

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

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	46		"	50.0		92.3	59-131			

**Blank (B7G0704-BLK2)**

Prepared: 07/07/2017 Analyzed: 07/08/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	43		"	50.0		85.7	59-131			

**LCS (B7G0704-BS1)**

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

Diesel (C10-C28)	1050	50.0	mg/kg	1000		105	64-121			
Residual Range Organics (C28-C40)	973	200	"	1000		97.3	58-124			
Surrogate: o-Terphenyl	50		"	50.0		101	59-131			

**LCS (B7G0704-BS2)**

Prepared: 07/07/2017 Analyzed: 07/08/2017

Diesel (C10-C28)	884	50.0	mg/kg	1000		88.4	64-121			
Residual Range Organics (C28-C40)	820	200	"	1000		82.0	58-124			
Surrogate: o-Terphenyl	41		"	50.0		82.0	59-131			

**Matrix Spike (B7G0704-MS1)**

Source: Y707031-01

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

Diesel (C10-C28)	1090	50.0	mg/kg	1000	21.8	106	53-125			
Residual Range Organics (C28-C40)	1050	200	"	1000	13.3	104	47-133			

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## 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 B7G0704 - EPA 3550B</b>										
<b>Matrix Spike (B7G0704-MS1)</b>		<b>Source: Y707031-01</b>			Prepared: 07/07/2017 Analyzed: 07/07/2017					
Surrogate: o-Terphenyl	51		mg/kg	50.0		102	59-131			
<b>Matrix Spike (B7G0704-MS2)</b>		<b>Source: Y707078-01</b>			Prepared: 07/07/2017 Analyzed: 07/08/2017					
Diesel (C10-C28)	1040	50.0	mg/kg	1000	32.8	101	53-125			
Residual Range Organics (C28-C40)	982	200	"	1000	16.7	96.6	47-133			
Surrogate: o-Terphenyl	49		"	50.0		98.4	59-131			
<b>Matrix Spike Dup (B7G0704-MSD1)</b>		<b>Source: Y707031-01</b>			Prepared: 07/07/2017 Analyzed: 07/07/2017					
Diesel (C10-C28)	1090	50.0	mg/kg	1000	21.8	107	53-125	0.523	20	
Residual Range Organics (C28-C40)	1050	200	"	1000	13.3	103	47-133	0.469	20	
Surrogate: o-Terphenyl	51		"	50.0		102	59-131			
<b>Matrix Spike Dup (B7G0704-MSD2)</b>		<b>Source: Y707078-01</b>			Prepared: 07/07/2017 Analyzed: 07/08/2017					
Diesel (C10-C28)	1090	50.0	mg/kg	1000	32.8	106	53-125	4.29	20	
Residual Range Organics (C28-C40)	1000	200	"	1000	16.7	98.5	47-133	1.99	20	
Surrogate: o-Terphenyl	51		"	50.0		102	59-131			

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

### 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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July 11, 2017

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

**Project Name - KMG - 16-80-40-4" Line Release**

**Project Number - 89334975**

Attached are your analytical results for KMG - 16-80-40-4" Line Release received by Origins Laboratory, Inc. July 10, 2017. This project is associated with Origins project number Y707090-01.

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.  
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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: 89334975

Project: KMG - 16-80-40-4" Line Release

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS13-R	Y707090-01	Soil	July 10, 2017 10:15	07/10/2017 15:43

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

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**ORIGINS**

LABORATORY, INC

www.originslaboratory.com

Client: APC

Address: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

Email Address: robert@tsm-mgmt.com

Project Manager: Robert Conuez

Project Name: 16-80-40.4" Live Release

Project Number: 89334975

Samples Collected By: Eric Sigel

page 1 of 1

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Surrogate			Other
CS13-R	7/10/17	10:15	1	X					X		X	1	
											X	2	
												3	
												4	
												5	
												6	
												7	
												8	
												9	
												10	
Relinquished By: <u>E.A. Sigel</u>	Date: <u>7/10/17</u>	Time: <u>1543</u>											Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard
Relinquished By: _____	Date: _____	Time: _____											

Temp Received- 43

Date Results Needed

Origins Laboratory, Inc.

Jeff Pellipini

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 9707090

Client: KMG

Client Project ID: KMG-16-80-40-4

Checklist Completed by: DL

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

Date/time completed: 7-10-17 4:3

Airbill #: 22

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

Cooler Number/Temperature: / 4.3 °C / °C / °C (Describe)

Thermometer ID: 1604

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 type="checkbox"/>	<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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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) DL

Date/Time Reviewed 7-10-17 16:13

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: 89334975  
Project: KMG - 16-80-40-4" Line Release

## CS13-R

7/10/2017 10:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y707090-01 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	44.2	25.0	mg/kg	1	B7G1002	07/10/2017	07/10/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	104 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G1001	07/10/2017	07/10/2017	U
Benzene	ND	0.002	"	"	"	"	07/11/2017	U
Toluene	0.002	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B7G1001 - EPA 5030 (soil)</b>										
<b>Blank (B7G1001-BLK1)</b>					Prepared: 07/10/2017 Analyzed: 07/10/2017					
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	67		ug/kg	62.5		107	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.3	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B7G1001 - EPA 5030 (soil)</b>										
<b>LCS (B7G1001-BS1)</b>					Prepared: 07/10/2017 Analyzed: 07/10/2017					
Benzene	0.100	0.002	mg/kg	0.100		100	77.1-124			
Toluene	0.097	0.002	"	0.100		97.1	74.5-128			
Ethylbenzene	0.099	0.002	"	0.100		98.7	66.4-127			
m,p-Xylene	0.195	0.004	"	0.200		97.7	76.6-124			
o-Xylene	0.098	0.002	"	0.100		98.1	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.8	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.5	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B7G1001 - EPA 5030 (soil)**

Matrix Spike (B7G1001-MS1)		Source: Y707078-13			Prepared: 07/10/2017 Analyzed: 07/10/2017					
Benzene	0.100	0.002	mg/kg	0.100	ND	100	71.8-126			
Toluene	0.096	0.002	"	0.100	0.001	94.9	65.1-130			
Ethylbenzene	0.094	0.002	"	0.100	0.0008	92.8	62.2-130			
m,p-Xylene	0.183	0.004	"	0.200	0.001	90.7	46.5-137			
o-Xylene	0.093	0.002	"	0.100	0.0004	92.9	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B7G1001 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B7G1001-MSD1)</b>	<b>Source: Y707078-13</b>				Prepared: 07/10/2017 Analyzed: 07/10/2017					
Benzene	0.095	0.002	mg/kg	0.100	ND	95.5	71.8-126	4.60	11.3	
Toluene	0.092	0.002	"	0.100	0.001	90.9	65.1-130	4.20	15.4	
Ethylbenzene	0.089	0.002	"	0.100	0.0008	88.3	62.2-130	4.90	19.6	
m,p-Xylene	0.176	0.004	"	0.200	0.001	87.1	46.5-137	4.01	19.2	
o-Xylene	0.090	0.002	"	0.100	0.0004	89.5	54.2-134	3.69	17.9	
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.1	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B7G1002 - EPA 3550B**

**Blank (B7G1002-BLK1)**

Prepared: 07/10/2017 Analyzed: 07/10/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	60		"	50.0		121	59-131			

**LCS (B7G1002-BS1)**

Prepared: 07/10/2017 Analyzed: 07/10/2017

Diesel (C10-C28)	1010	50.0	mg/kg	1000		101	64-121			
Residual Range Organics (C28-C40)	961	200	"	1000		96.1	58-124			
Surrogate: o-Terphenyl	50		"	50.0		100	59-131			

**Matrix Spike (B7G1002-MS1)**

**Source: Y707078-13**

Prepared: 07/10/2017 Analyzed: 07/10/2017

Diesel (C10-C28)	1000	50.0	mg/kg	1000	ND	100	53-125			
Residual Range Organics (C28-C40)	971	200	"	1000	24.2	94.7	47-133			
Surrogate: o-Terphenyl	49		"	50.0		98.0	59-131			

**Matrix Spike Dup (B7G1002-MSD1)**

**Source: Y707078-13**

Prepared: 07/10/2017 Analyzed: 07/10/2017

Diesel (C10-C28)	1020	50.0	mg/kg	1000	ND	102	53-125	1.97	20	
Residual Range Organics (C28-C40)	1010	200	"	1000	24.2	98.9	47-133	4.29	20	
Surrogate: o-Terphenyl	51		"	50.0		102	59-131			

Origins Laboratory, Inc.



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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: 89334975

Project: KMG - 16-80-40-4" Line Release

### 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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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS21	Y709209-01	Soil	September 15, 2017 10:13	09/15/2017 16:51
CS22	Y709209-02	Soil	September 15, 2017 10:18	09/15/2017 16:51
CS23	Y709209-03	Soil	September 15, 2017 10:21	09/15/2017 16:51
CS24	Y709209-04	Soil	September 15, 2017 10:24	09/15/2017 16:51
CS25	Y709209-05	Soil	September 15, 2017 10:26	09/15/2017 16:51
CS26	Y709209-06	Soil	September 15, 2017 10:30	09/15/2017 16:51
CS27	Y709209-07	Soil	September 15, 2017 10:33	09/15/2017 16:51
CS28	Y709209-08	Soil	September 15, 2017 10:37	09/15/2017 16:51
CS29	Y709209-09	Soil	September 15, 2017 11:06	09/15/2017 16:51
CS30	Y709209-10	Soil	September 15, 2017 11:10	09/15/2017 16:51
CS31	Y709209-11	Soil	September 15, 2017 11:14	09/15/2017 16:51
CS32	Y709209-12	Soil	September 15, 2017 11:19	09/15/2017 16:51
CS33	Y709209-13	Soil	September 15, 2017 11:22	09/15/2017 16:51
CS34	Y709209-14	Soil	September 15, 2017 11:26	09/15/2017 16:51

Origins Laboratory, Inc.



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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: 89334975

Project: KMG - 16-80-40-4" Line Release

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS35	Y709209-15	Soil	September 15, 2017 11:30	09/15/2017 16:51
CS36	Y709209-16	Soil	September 15, 2017 11:33	09/15/2017 16:51
CS37	Y709209-17	Soil	September 15, 2017 11:36	09/15/2017 16:51
CS38	Y709209-18	Soil	September 15, 2017 11:40	09/15/2017 16:51
CS39	Y709209-19	Soil	September 15, 2017 11:44	09/15/2017 16:51

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

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170209

Client: APC

Project Manager: Robert Cornez

Project Name: 16-80-40-4" Line Release

Project Number: 89334975

Samples Collected By: E3

Telephone Number:

Email Address: rcornez@tasman-geo.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #		
CS21	9/15/17	10:13	2	X				X			CS21	1
CS22		10:18	2	X				X			CS22	2
CS23		10:21	2	X				X			CS23	3
CS24		10:24	2	X				X			CS24	4
CS25		10:26	2	X				X			CS25	5
CS26		10:30	2	X				X			CS26	6
CS27		10:33	2	X				X			CS27	7
CS28		10:37	2	X				X			CS28	8
CS29		11:06	2	X				X			CS29	9
CS30		11:10	2	X				X			CS30	10
Relinquished By: E. J. J. J.	Date: 9/15/17	Time: 1651		Received By: [Signature]				Received By: [Signature]			Date: 9/15/17	Time: 1651
Relinquished By:	Date:	Time:		Received By:				Received By:			Date:	Time:

1725 Elk Place

Denver, CO 80211

Phone: 303.433.1322

Fax: 303.265.9645

Temp Received: 36

Date Results Needed

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: 89334975  
Project: KMG - 16-80-40-4" Line Release

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page 2 of 2

704209

Client: APC

Project Manager: Robert Cornez

Project Name: 16-80-40-4" Line Release

Project Number: 89334975

Samples Collected By: E3

Telephone Number:

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 <sub>3</sub>	Other	Groundwater	Soil	Air Summary	Other	
CS31	9/15/17	11:14	2	X				X		X		1
CS32		11:19	2	X				X		X		2
CS33		11:22	2	X				X		X		3
CS34		11:26	2	X				X		X		4
CS35		11:30	2	X				X		X		5
CS36		11:33	2	X				X		X		6
CS37		11:36	2	X				X		X		7
CS38		11:40	2	X				X		X		8
CS39		11:44	2	X				X		X		9
												10

Relinquished By: E.A. Hill Date: 9/15/17 Time: 1651

Relinquished By: Date: 9/15/17 Time: 1651

Received By: Date: 9/15/17 Time: 1651

Turnaround Time: Same Day ☒ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard ☐

Temp Received: 36° Date Results Needed:

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 4709209

Client: Tasman

Client Project ID: KMG-16-80-40-4" Line Release

Checklist Completed by: Dm

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

Date/time completed: 4-15-17 1750

Airbill #: N/A

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

Cooler Number/Temperature: 1 3.6 °C 1 °C 1 °C (Describe) °C

Thermometer ID: R003

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 type="checkbox"/>	<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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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: [Signature] (Project Manager)

4-15-17 1750  
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## CS21

9/15/2017 10:13:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y709209-01 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 126 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 96.9 % 70-130 " " "  
Surrogate: Toluene-d8 103 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## CS22

9/15/2017 10:18:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y709209-02 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 96.1 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 98.0 % 70-130 " " "  
Surrogate: Toluene-d8 102 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## CS23

9/15/2017 10:21:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y709209-03 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 92.0 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 98.8 % 70-130 " " "  
Surrogate: Toluene-d8 100 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## CS24

9/15/2017 10:24:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y709209-04 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 91.0 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 97.0 % 70-130 " " "  
Surrogate: Toluene-d8 100 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## CS25

9/15/2017 10:26:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y709209-05 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 104 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/17/2017	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	0.002	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	0.006	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "  
Surrogate: Toluene-d8 97.1 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## CS26

9/15/2017 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y709209-06 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 78.0 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 102 % 70-130 " " "  
Surrogate: Toluene-d8 98.1 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

CS27

9/15/2017 10:33:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y709209-07 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 113 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 103 % 70-130 " " "  
Surrogate: Toluene-d8 98.7 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## CS28

9/15/2017 10:37:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y709209-08 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 88.9 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 99.9 % 70-130 " " "  
Surrogate: Toluene-d8 100 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## CS29

9/15/2017 11:06:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y709209-09 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 94.3 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 106 % 70-130 " " "  
Surrogate: Toluene-d8 99.2 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## CS30

9/15/2017 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y709209-10 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 99.4 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 107 % 70-130 " " "  
Surrogate: Toluene-d8 99.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

CS31

9/15/2017 11:14:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y709209-11 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 90.1 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 105 % 70-130 " " "  
Surrogate: Toluene-d8 98.0 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## CS32

9/15/2017 11:19:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y709209-12 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 78.8 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 101 % 70-130 " " "  
Surrogate: Toluene-d8 97.8 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

CS33

9/15/2017 11:22:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y709209-13 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 91.0 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 104 % 70-130 " " "  
Surrogate: Toluene-d8 96.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## CS34

9/15/2017 11:26:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y709209-14 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 94.3 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 105 % 70-130 " " "  
Surrogate: Toluene-d8 99.5 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## CS35

9/15/2017 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y709209-15 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 90.1 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/16/2017	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 101 % 70-130 " " "  
Surrogate: Toluene-d8 97.7 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## CS36

9/15/2017 11:33:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y709209-16 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 83.5 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/16/2017	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 107 % 70-130 " " "  
Surrogate: Toluene-d8 99.1 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

CS37

9/15/2017 11:36:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y709209-17 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/18/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 125 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/16/2017	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 104 % 70-130 " " "  
Surrogate: Toluene-d8 97.5 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

CS38

9/15/2017 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y709209-18 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 92.9 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/16/2017	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 106 % 70-130 " " "  
Surrogate: Toluene-d8 98.0 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B711502 - EPA 5030 (soil)</b>										
<b>Blank (B711502-BLK1)</b>					Prepared: 09/15/2017 Analyzed: 09/15/2017					
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	62		ug/kg	62.5		99.8	70-130			
Surrogate: Toluene-d8	65		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B711502 - EPA 5030 (soil)</b>										
<b>Blank (B711502-BLK2)</b>					Prepared: 09/15/2017 Analyzed: 09/15/2017					
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	63		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	70-130			

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B711502 - EPA 5030 (soil)</b>										
<b>Blank (B711502-BLK3)</b>					Prepared: 09/15/2017 Analyzed: 09/15/2017					
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	58		ug/kg	62.5		92.4	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.3	70-130			

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Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B711502 - EPA 5030 (soil)</b>										
<b>LCS (B711502-BS1)</b>					Prepared: 09/15/2017 Analyzed: 09/15/2017					
Benzene	0.103	0.002	mg/kg	0.100		103	77.1-124			
Toluene	0.101	0.002	"	0.100		101	74.5-128			
Ethylbenzene	0.099	0.002	"	0.100		99.4	66.4-127			
m,p-Xylene	0.199	0.004	"	0.200		99.6	76.6-124			
o-Xylene	0.101	0.002	"	0.100		101	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		107	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B711502 - EPA 5030 (soil)</b>										
<b>LCS (B711502-BS2)</b>					Prepared: 09/15/2017 Analyzed: 09/15/2017					
Benzene	0.092	0.002	mg/kg	0.100		92.5	77.1-124			
Toluene	0.094	0.002	"	0.100		94.3	74.5-128			
Ethylbenzene	0.092	0.002	"	0.100		91.8	66.4-127			
m,p-Xylene	0.184	0.004	"	0.200		92.1	76.6-124			
o-Xylene	0.093	0.002	"	0.100		93.4	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B711502 - EPA 5030 (soil)</b>										
<b>LCS (B711502-BS3)</b>					Prepared: 09/15/2017 Analyzed: 09/15/2017					
Benzene	0.093	0.002	mg/kg	0.100		92.7	77.1-124			
Toluene	0.092	0.002	"	0.100		91.8	74.5-128			
Ethylbenzene	0.089	0.002	"	0.100		88.9	66.4-127			
m,p-Xylene	0.171	0.004	"	0.200		85.5	76.6-124			
o-Xylene	0.087	0.002	"	0.100		87.2	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.9	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.9	70-130			

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B711502 - EPA 5030 (soil)**

Matrix Spike (B711502-MS1)		Source: Y709181-01			Prepared: 09/15/2017 Analyzed: 09/15/2017					
Benzene	0.096	0.002	mg/kg	0.100	ND	96.5	71.8-126			
Toluene	0.097	0.002	"	0.100	ND	97.2	65.1-130			
Ethylbenzene	0.093	0.002	"	0.100	ND	93.3	62.2-130			
m,p-Xylene	0.181	0.004	"	0.200	ND	90.6	46.5-137			
o-Xylene	0.093	0.002	"	0.100	ND	92.5	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	58		ug/kg	62.5		92.1	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	70-130			

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B711502 - EPA 5030 (soil)**

Matrix Spike (B711502-MS2)		Source: Y709181-02			Prepared: 09/15/2017 Analyzed: 09/15/2017					
Benzene	0.101	0.002	mg/kg	0.100	ND	101	71.8-126			
Toluene	0.102	0.002	"	0.100	ND	102	65.1-130			
Ethylbenzene	0.103	0.002	"	0.100	ND	103	62.2-130			
m,p-Xylene	0.205	0.004	"	0.200	ND	102	46.5-137			
o-Xylene	0.104	0.002	"	0.100	ND	104	54.2-134			
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	65		"	62.5		104	70-130			

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B711502 - EPA 5030 (soil)**

Matrix Spike (B711502-MS3)		Source: Y709181-03			Prepared: 09/15/2017 Analyzed: 09/15/2017					
Benzene	0.091	0.002	mg/kg	0.100	ND	90.6	71.8-126			
Toluene	0.095	0.002	"	0.100	ND	94.7	65.1-130			
Ethylbenzene	0.090	0.002	"	0.100	0.0006	89.2	62.2-130			
m,p-Xylene	0.176	0.004	"	0.200	ND	87.9	46.5-137			
o-Xylene	0.088	0.002	"	0.100	ND	88.5	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	69		ug/kg	62.5		110	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B711502 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B711502-MSD1)</b>					<b>Source: Y709181-01</b>					Prepared: 09/15/2017 Analyzed: 09/15/2017
Benzene	0.093	0.002	mg/kg	0.100	ND	92.7	71.8-126	4.00	11.3	
Toluene	0.092	0.002	"	0.100	ND	91.8	65.1-130	5.72	15.4	
Ethylbenzene	0.089	0.002	"	0.100	ND	88.9	62.2-130	4.85	19.6	
m,p-Xylene	0.171	0.004	"	0.200	ND	85.5	46.5-137	5.74	19.2	
o-Xylene	0.087	0.002	"	0.100	ND	87.2	54.2-134	5.90	17.9	
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.9	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.9	70-130			

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B711502 - EPA 5030 (soil)**

Matrix Spike Dup (B711502-MSD2)		Source: Y709181-02			Prepared: 09/15/2017 Analyzed: 09/15/2017					
Benzene	0.092	0.002	mg/kg	0.100	ND	92.5	71.8-126	8.51	11.3	
Toluene	0.094	0.002	"	0.100	ND	94.3	65.1-130	7.57	15.4	
Ethylbenzene	0.092	0.002	"	0.100	ND	91.8	62.2-130	11.1	19.6	
m,p-Xylene	0.184	0.004	"	0.200	ND	92.1	46.5-137	10.5	19.2	
o-Xylene	0.093	0.002	"	0.100	ND	93.4	54.2-134	10.3	17.9	
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B711502 - EPA 5030 (soil)**

Matrix Spike Dup (B711502-MSD3)		Source: Y709181-03			Prepared: 09/15/2017 Analyzed: 09/15/2017					
Benzene	0.087	0.002	mg/kg	0.100	ND	86.8	71.8-126	4.26	11.3	
Toluene	0.087	0.002	"	0.100	ND	86.8	65.1-130	8.71	15.4	
Ethylbenzene	0.089	0.002	"	0.100	0.0006	88.6	62.2-130	0.693	19.6	
m,p-Xylene	0.172	0.004	"	0.200	ND	86.0	46.5-137	2.22	19.2	
o-Xylene	0.088	0.002	"	0.100	ND	88.1	54.2-134	0.430	17.9	
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		105	70-130			

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B711503 - EPA 3550B**

**Blank (B711503-BLK1)**

Prepared: 09/15/2017 Analyzed: 09/17/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	52		"	50.0		105	59-131			

**Blank (B711503-BLK2)**

Prepared: 09/15/2017 Analyzed: 09/17/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	52		"	50.0		105	59-131			

**Blank (B711503-BLK3)**

Prepared: 09/15/2017 Analyzed: 09/17/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	52		"	50.0		104	59-131			

**LCS (B711503-BS1)**

Prepared: 09/15/2017 Analyzed: 09/17/2017

Diesel (C10-C28)	1010	50.0	mg/kg	1000		101	64-121			
Residual Range Organics (C28-C40)	812	200	"	1000		81.2	58-124			
Surrogate: o-Terphenyl	49		"	50.0		97.5	59-131			

**LCS (B711503-BS2)**

Prepared: 09/15/2017 Analyzed: 09/17/2017

Diesel (C10-C28)	1080	50.0	mg/kg	1000		108	64-121			
Residual Range Organics (C28-C40)	953	200	"	1000		95.3	58-124			

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## 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 B711503 - EPA 3550B</b>										
<b>LCS (B711503-BS2)</b>					Prepared: 09/15/2017 Analyzed: 09/17/2017					
Surrogate: o-Terphenyl	56		mg/kg	50.0		112	59-131			
<b>LCS (B711503-BS3)</b>					Prepared: 09/15/2017 Analyzed: 09/17/2017					
Diesel (C10-C28)	1060	50.0	mg/kg	1000		106	64-121			
Residual Range Organics (C28-C40)	920	200	"	1000		92.0	58-124			
Surrogate: o-Terphenyl	60		"	50.0		119	59-131			
<b>Matrix Spike (B711503-MS1)</b>					<b>Source: Y709181-01</b>		Prepared: 09/15/2017 Analyzed: 09/17/2017			
Diesel (C10-C28)	1090	50.0	mg/kg	1000	14.4	107	53-125			
Residual Range Organics (C28-C40)	936	200	"	1000	50.7	88.6	47-133			
Surrogate: o-Terphenyl	53		"	50.0		106	59-131			
<b>Matrix Spike (B711503-MS2)</b>					<b>Source: Y709181-02</b>		Prepared: 09/15/2017 Analyzed: 09/17/2017			
Diesel (C10-C28)	1070	50.0	mg/kg	1000	17.5	106	53-125			
Residual Range Organics (C28-C40)	888	200	"	1000	44.4	84.4	47-133			
Surrogate: o-Terphenyl	54		"	50.0		109	59-131			
<b>Matrix Spike (B711503-MS3)</b>					<b>Source: Y709181-03</b>		Prepared: 09/15/2017 Analyzed: 09/17/2017			
Diesel (C10-C28)	1060	50.0	mg/kg	1000	23.8	104	53-125			
Residual Range Organics (C28-C40)	860	200	"	1000	37.1	82.3	47-133			
Surrogate: o-Terphenyl	51		"	50.0		102	59-131			
<b>Matrix Spike Dup (B711503-MSD1)</b>					<b>Source: Y709181-01</b>		Prepared: 09/15/2017 Analyzed: 09/17/2017			
Diesel (C10-C28)	1130	50.0	mg/kg	1000	14.4	112	53-125	4.07	20	
Residual Range Organics (C28-C40)	976	200	"	1000	50.7	92.5	47-133	4.35	20	
Surrogate: o-Terphenyl	58		"	50.0		115	59-131			
<b>Matrix Spike Dup (B711503-MSD2)</b>					<b>Source: Y709181-02</b>		Prepared: 09/15/2017 Analyzed: 09/17/2017			

Origins Laboratory, Inc.



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September 18, 2017

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

**Project Name - KMG - 16-80-40-4" Line Release**

**Project Number - 89334975**

Attached are your analytical results for KMG - 16-80-40-4" Line Release received by Origins Laboratory, Inc. September 15, 2017. This project is associated with Origins project number Y709209-01.

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: 89334975  
Project: KMG - 16-80-40-4" Line Release

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS40	Y709209-01	Soil	September 15, 2017 10:13	09/15/2017 16:51
CS22	Y709209-02	Soil	September 15, 2017 10:18	09/15/2017 16:51
CS23	Y709209-03	Soil	September 15, 2017 10:21	09/15/2017 16:51
CS24	Y709209-04	Soil	September 15, 2017 10:24	09/15/2017 16:51
CS25	Y709209-05	Soil	September 15, 2017 10:26	09/15/2017 16:51
CS26	Y709209-06	Soil	September 15, 2017 10:30	09/15/2017 16:51
CS27	Y709209-07	Soil	September 15, 2017 10:33	09/15/2017 16:51
CS28	Y709209-08	Soil	September 15, 2017 10:37	09/15/2017 16:51
CS29	Y709209-09	Soil	September 15, 2017 11:06	09/15/2017 16:51
CS30	Y709209-10	Soil	September 15, 2017 11:10	09/15/2017 16:51
CS31	Y709209-11	Soil	September 15, 2017 11:14	09/15/2017 16:51
CS32	Y709209-12	Soil	September 15, 2017 11:19	09/15/2017 16:51
CS33	Y709209-13	Soil	September 15, 2017 11:22	09/15/2017 16:51
CS34	Y709209-14	Soil	September 15, 2017 11:26	09/15/2017 16:51

Origins Laboratory, Inc.



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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: 89334975

Project: KMG - 16-80-40-4" Line Release

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS35	Y709209-15	Soil	September 15, 2017 11:30	09/15/2017 16:51
CS36	Y709209-16	Soil	September 15, 2017 11:33	09/15/2017 16:51
CS37	Y709209-17	Soil	September 15, 2017 11:36	09/15/2017 16:51
CS38	Y709209-18	Soil	September 15, 2017 11:40	09/15/2017 16:51
CS39	Y709209-19	Soil	September 15, 2017 11:44	09/15/2017 16:51

Per the email from Eric on 9/18/17, sample ID CS21 has been changed to CS40.

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

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170209

Client: APC

Project Manager: Robert Cornez

Project Name: 16-80-40-4" Line Release

Project Number: 89334975

Samples Collected By: E3

Telephone Number:

Email Address: rcornez@tasman-geo.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #		
CS21	9/15/17	10:13	2	X				X			CS21	1
CS22		10:18	2	X				X			CS22	2
CS23		10:21	2	X				X			CS23	3
CS24		10:24	2	X				X			CS24	4
CS25		10:26	2	X				X			CS25	5
CS26		10:30	2	X				X			CS26	6
CS27		10:33	2	X				X			CS27	7
CS28		10:37	2	X				X			CS28	8
CS29		11:06	2	X				X			CS29	9
CS30		11:10	2	X				X			CS30	10
Relinquished By: E. J. J. J.	Date: 9/15/17	Time: 1651		Received By: [Signature]				Received By: [Signature]			Date: 9/15/17	Time: 1651
Relinquished By:	Date:	Time:		Received By:				Received By:			Date:	Time:

1725 Elk Place

Denver, CO 80211

Phone: 303.433.1322

Fax: 303.265.9645

Temp Received: 36

Date Results Needed

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: 89334975  
Project: KMG - 16-80-40-4" Line Release

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page 2 of 2

704209

Client: APC

Project Manager: Robert Cornez

Project Name: 16-80-40-4" Line Release

Project Number: 89334975

Samples Collected By: E3

Telephone Number:

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 <sub>3</sub>	Other	Groundwater	Soil	Air Summary	Other	
CS31	9/15/17	11:14	2	X				X		X		1
CS32		11:19	2	X				X		X		2
CS33		11:22	2	X				X		X		3
CS34		11:26	2	X				X		X		4
CS35		11:30	2	X				X		X		5
CS36		11:33	2	X				X		X		6
CS37		11:36	2	X				X		X		7
CS38		11:40	2	X				X		X		8
CS39		11:44	2	X				X		X		9
												10

Relinquished By: E.A. Hill Date: 9/15/17 Time: 1651

Relinquished By: Date: 9/15/17 Time: 1651

Received By: Date: 9/15/17 Time: 1651

Turnaround Time: Same Day ☒ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard ☐

Temp Received: 36° Date Results Needed:

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: 89334975  
Project: KMG - 16-80-40-4" Line Release

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 4709209

Client: Tasman

Client Project ID: KMG-16-80-40-4" Line Release

Checklist Completed by: DM

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

Date/time completed: 4-15-17 1750

Airbill #: N/A

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

Cooler Number/Temperature: 1 3.6 °C 1 °C 1 °C (Describe) °C

Thermometer ID: R003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<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 [Signature] (Project Manager)

4-15-17 1750  
Date/Time Reviewed

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: 89334975  
Project: KMG - 16-80-40-4" Line Release

## CS40

9/15/2017 10:13:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y709209-01 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 126 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 96.9 % 70-130 " " "  
Surrogate: Toluene-d8 103 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 104 % 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  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## CS22

9/15/2017 10:18:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y709209-02 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 96.1 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 98.0 % 70-130 " " "  
Surrogate: Toluene-d8 102 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 102 % 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  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## CS23

9/15/2017 10:21:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y709209-03 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 92.0 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 98.8 % 70-130 " " "  
Surrogate: Toluene-d8 100 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## CS24

9/15/2017 10:24:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y709209-04 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 91.0 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 97.0 % 70-130 " " "  
Surrogate: Toluene-d8 100 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 102 % 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  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## CS25

9/15/2017 10:26:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y709209-05 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 104 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/17/2017	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	0.002	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	0.006	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "  
Surrogate: Toluene-d8 97.1 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 102 % 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  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## CS26

9/15/2017 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y709209-06 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 78.0 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 102 % 70-130 " " "  
Surrogate: Toluene-d8 98.1 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 105 % 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  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

CS27

9/15/2017 10:33:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y709209-07 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 113 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 103 % 70-130 " " "  
Surrogate: Toluene-d8 98.7 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 102 % 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  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## CS28

9/15/2017 10:37:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y709209-08 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 88.9 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 99.9 % 70-130 " " "  
Surrogate: Toluene-d8 100 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## CS29

9/15/2017 11:06:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y709209-09 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 94.3 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 106 % 70-130 " " "  
Surrogate: Toluene-d8 99.2 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## CS30

9/15/2017 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y709209-10 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 99.4 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 107 % 70-130 " " "  
Surrogate: Toluene-d8 99.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

CS31

9/15/2017 11:14:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y709209-11 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	90.1 %	59-131			"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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	105 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.0 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## CS32

9/15/2017 11:19:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y709209-12 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 78.8 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 101 % 70-130 " " "  
Surrogate: Toluene-d8 97.8 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

CS33

9/15/2017 11:22:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y709209-13 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 91.0 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 104 % 70-130 " " "  
Surrogate: Toluene-d8 96.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## CS34

9/15/2017 11:26:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y709209-14 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 94.3 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 105 % 70-130 " " "  
Surrogate: Toluene-d8 99.5 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## CS35

9/15/2017 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y709209-15 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 90.1 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/16/2017	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 101 % 70-130 " " "  
Surrogate: Toluene-d8 97.7 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## CS36

9/15/2017 11:33:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y709209-16 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 83.5 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/16/2017	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 107 % 70-130 " " "  
Surrogate: Toluene-d8 99.1 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

CS37

9/15/2017 11:36:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y709209-17 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/18/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 125 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/16/2017	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 104 % 70-130 " " "  
Surrogate: Toluene-d8 97.5 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

CS38

9/15/2017 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y709209-18 (Soil)

## DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	92.9 %	59-131			"	"	"	
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## GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/16/2017	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	106 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.0 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## CS39

9/15/2017 11:44:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y709209-19 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 70.8 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/16/2017	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 107 % 70-130 " " "  
Surrogate: Toluene-d8 96.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B711502 - EPA 5030 (soil)</b>										
<b>Blank (B711502-BLK1)</b>					Prepared: 09/15/2017 Analyzed: 09/15/2017					
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	62		ug/kg	62.5		99.8	70-130			
Surrogate: Toluene-d8	65		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B711502 - EPA 5030 (soil)</b>										
<b>Blank (B711502-BLK2)</b>					Prepared: 09/15/2017 Analyzed: 09/15/2017					
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	63		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	70-130			

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B711502 - EPA 5030 (soil)</b>										
<b>Blank (B711502-BLK3)</b>					Prepared: 09/15/2017 Analyzed: 09/15/2017					
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	58		ug/kg	62.5		92.4	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.3	70-130			

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B711502 - EPA 5030 (soil)</b>										
<b>LCS (B711502-BS1)</b>					Prepared: 09/15/2017 Analyzed: 09/15/2017					
Benzene	0.103	0.002	mg/kg	0.100		103	77.1-124			
Toluene	0.101	0.002	"	0.100		101	74.5-128			
Ethylbenzene	0.099	0.002	"	0.100		99.4	66.4-127			
m,p-Xylene	0.199	0.004	"	0.200		99.6	76.6-124			
o-Xylene	0.101	0.002	"	0.100		101	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		107	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B711502 - EPA 5030 (soil)</b>										
<b>LCS (B711502-BS2)</b>					Prepared: 09/15/2017 Analyzed: 09/15/2017					
Benzene	0.092	0.002	mg/kg	0.100		92.5	77.1-124			
Toluene	0.094	0.002	"	0.100		94.3	74.5-128			
Ethylbenzene	0.092	0.002	"	0.100		91.8	66.4-127			
m,p-Xylene	0.184	0.004	"	0.200		92.1	76.6-124			
o-Xylene	0.093	0.002	"	0.100		93.4	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B711502 - EPA 5030 (soil)</b>										
<b>LCS (B711502-BS3)</b>					Prepared: 09/15/2017 Analyzed: 09/15/2017					
Benzene	0.093	0.002	mg/kg	0.100		92.7	77.1-124			
Toluene	0.092	0.002	"	0.100		91.8	74.5-128			
Ethylbenzene	0.089	0.002	"	0.100		88.9	66.4-127			
m,p-Xylene	0.171	0.004	"	0.200		85.5	76.6-124			
o-Xylene	0.087	0.002	"	0.100		87.2	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.9	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.9	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

**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 B711502 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B711502-MS1)</b>		<b>Source: Y709181-01</b>			Prepared: 09/15/2017 Analyzed: 09/15/2017					
Benzene	0.096	0.002	mg/kg	0.100	ND	96.5	71.8-126			
Toluene	0.097	0.002	"	0.100	ND	97.2	65.1-130			
Ethylbenzene	0.093	0.002	"	0.100	ND	93.3	62.2-130			
m,p-Xylene	0.181	0.004	"	0.200	ND	90.6	46.5-137			
o-Xylene	0.093	0.002	"	0.100	ND	92.5	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	58		ug/kg	62.5		92.1	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	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 B711502 - EPA 5030 (soil)**

Matrix Spike (B711502-MS2)		Source: Y709181-02			Prepared: 09/15/2017 Analyzed: 09/15/2017					
Benzene	0.101	0.002	mg/kg	0.100	ND	101	71.8-126			
Toluene	0.102	0.002	"	0.100	ND	102	65.1-130			
Ethylbenzene	0.103	0.002	"	0.100	ND	103	62.2-130			
m,p-Xylene	0.205	0.004	"	0.200	ND	102	46.5-137			
o-Xylene	0.104	0.002	"	0.100	ND	104	54.2-134			
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	65		"	62.5		104	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 B711502 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B711502-MS3)</b>		<b>Source: Y709181-03</b>			Prepared: 09/15/2017 Analyzed: 09/15/2017					
Benzene	0.091	0.002	mg/kg	0.100	ND	90.6	71.8-126			
Toluene	0.095	0.002	"	0.100	ND	94.7	65.1-130			
Ethylbenzene	0.090	0.002	"	0.100	0.0006	89.2	62.2-130			
m,p-Xylene	0.176	0.004	"	0.200	ND	87.9	46.5-137			
o-Xylene	0.088	0.002	"	0.100	ND	88.5	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	69		ug/kg	62.5		110	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	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 B711502 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B711502-MSD1)</b>		<b>Source: Y709181-01</b>			Prepared: 09/15/2017 Analyzed: 09/15/2017					
Benzene	0.093	0.002	mg/kg	0.100	ND	92.7	71.8-126	4.00	11.3	
Toluene	0.092	0.002	"	0.100	ND	91.8	65.1-130	5.72	15.4	
Ethylbenzene	0.089	0.002	"	0.100	ND	88.9	62.2-130	4.85	19.6	
m,p-Xylene	0.171	0.004	"	0.200	ND	85.5	46.5-137	5.74	19.2	
o-Xylene	0.087	0.002	"	0.100	ND	87.2	54.2-134	5.90	17.9	
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.9	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.9	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 B711502 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B711502-MSD2)</b>		<b>Source: Y709181-02</b>			Prepared: 09/15/2017 Analyzed: 09/15/2017					
Benzene	0.092	0.002	mg/kg	0.100	ND	92.5	71.8-126	8.51	11.3	
Toluene	0.094	0.002	"	0.100	ND	94.3	65.1-130	7.57	15.4	
Ethylbenzene	0.092	0.002	"	0.100	ND	91.8	62.2-130	11.1	19.6	
m,p-Xylene	0.184	0.004	"	0.200	ND	92.1	46.5-137	10.5	19.2	
o-Xylene	0.093	0.002	"	0.100	ND	93.4	54.2-134	10.3	17.9	
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	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 B711502 - EPA 5030 (soil)**

Matrix Spike Dup (B711502-MSD3)		Source: Y709181-03			Prepared: 09/15/2017 Analyzed: 09/15/2017					
Benzene	0.087	0.002	mg/kg	0.100	ND	86.8	71.8-126	4.26	11.3	
Toluene	0.087	0.002	"	0.100	ND	86.8	65.1-130	8.71	15.4	
Ethylbenzene	0.089	0.002	"	0.100	0.0006	88.6	62.2-130	0.693	19.6	
m,p-Xylene	0.172	0.004	"	0.200	ND	86.0	46.5-137	2.22	19.2	
o-Xylene	0.088	0.002	"	0.100	ND	88.1	54.2-134	0.430	17.9	
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		105	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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**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 B711503 - EPA 3550B**

**Blank (B711503-BLK1)**

Prepared: 09/15/2017 Analyzed: 09/17/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	52		"	50.0		105	59-131			

**Blank (B711503-BLK2)**

Prepared: 09/15/2017 Analyzed: 09/17/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	52		"	50.0		105	59-131			

**Blank (B711503-BLK3)**

Prepared: 09/15/2017 Analyzed: 09/17/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	52		"	50.0		104	59-131			

**LCS (B711503-BS1)**

Prepared: 09/15/2017 Analyzed: 09/17/2017

Diesel (C10-C28)	1010	50.0	mg/kg	1000		101	64-121			
Residual Range Organics (C28-C40)	812	200	"	1000		81.2	58-124			
Surrogate: o-Terphenyl	49		"	50.0		97.5	59-131			

**LCS (B711503-BS2)**

Prepared: 09/15/2017 Analyzed: 09/17/2017

Diesel (C10-C28)	1080	50.0	mg/kg	1000		108	64-121			
Residual Range Organics (C28-C40)	953	200	"	1000		95.3	58-124			

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Project: KMG - 16-80-40-4" Line Release

## 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 B711503 - EPA 3550B</b>										
<b>LCS (B711503-BS2)</b>					Prepared: 09/15/2017 Analyzed: 09/17/2017					
Surrogate: o-Terphenyl	56		mg/kg	50.0		112	59-131			
<b>LCS (B711503-BS3)</b>					Prepared: 09/15/2017 Analyzed: 09/17/2017					
Diesel (C10-C28)	1060	50.0	mg/kg	1000		106	64-121			
Residual Range Organics (C28-C40)	920	200	"	1000		92.0	58-124			
Surrogate: o-Terphenyl	60		"	50.0		119	59-131			
<b>Matrix Spike (B711503-MS1)</b>					<b>Source: Y709181-01</b>		Prepared: 09/15/2017 Analyzed: 09/17/2017			
Diesel (C10-C28)	1090	50.0	mg/kg	1000	14.4	107	53-125			
Residual Range Organics (C28-C40)	936	200	"	1000	50.7	88.6	47-133			
Surrogate: o-Terphenyl	53		"	50.0		106	59-131			
<b>Matrix Spike (B711503-MS2)</b>					<b>Source: Y709181-02</b>		Prepared: 09/15/2017 Analyzed: 09/17/2017			
Diesel (C10-C28)	1070	50.0	mg/kg	1000	17.5	106	53-125			
Residual Range Organics (C28-C40)	888	200	"	1000	44.4	84.4	47-133			
Surrogate: o-Terphenyl	54		"	50.0		109	59-131			
<b>Matrix Spike (B711503-MS3)</b>					<b>Source: Y709181-03</b>		Prepared: 09/15/2017 Analyzed: 09/17/2017			
Diesel (C10-C28)	1060	50.0	mg/kg	1000	23.8	104	53-125			
Residual Range Organics (C28-C40)	860	200	"	1000	37.1	82.3	47-133			
Surrogate: o-Terphenyl	51		"	50.0		102	59-131			
<b>Matrix Spike Dup (B711503-MSD1)</b>					<b>Source: Y709181-01</b>		Prepared: 09/15/2017 Analyzed: 09/17/2017			
Diesel (C10-C28)	1130	50.0	mg/kg	1000	14.4	112	53-125	4.07	20	
Residual Range Organics (C28-C40)	976	200	"	1000	50.7	92.5	47-133	4.35	20	
Surrogate: o-Terphenyl	58		"	50.0		115	59-131			
<b>Matrix Spike Dup (B711503-MSD2)</b>					<b>Source: Y709181-02</b>		Prepared: 09/15/2017 Analyzed: 09/17/2017			

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Denver CO 80211

Bob Cornez  
Project Number: 89334975  
Project: KMG - 16-80-40-4" Line Release

## 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 B711503 - EPA 3550B</b>										
<b>Matrix Spike Dup (B711503-MSD2)</b>		<b>Source: Y709181-02</b>			Prepared: 09/15/2017 Analyzed: 09/17/2017					
Diesel (C10-C28)	958	50.0	mg/kg	1000	17.5	94.1	53-125	11.6	20	
Residual Range Organics (C28-C40)	801	200	"	1000	44.4	75.6	47-133	10.9	20	
Surrogate: o-Terphenyl	49		"	50.0		97.9	59-131			
<b>Matrix Spike Dup (B711503-MSD3)</b>		<b>Source: Y709181-03</b>			Prepared: 09/15/2017 Analyzed: 09/17/2017					
Diesel (C10-C28)	1050	50.0	mg/kg	1000	23.8	103	53-125	0.780	20	
Residual Range Organics (C28-C40)	861	200	"	1000	37.1	82.4	47-133	0.125	20	
Surrogate: o-Terphenyl	51		"	50.0		103	59-131			

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Tasman Geosciences

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Denver CO 80211

Bob Cornez

Project Number: 89334975

Project: KMG - 16-80-40-4" Line Release

### 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