

August 27, 2015

LT Environmental, Inc.

John Cocroft

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - UPRR X 13-06

Project Number - [none]

Attached are your analytical results for KMG - UPRR X 13-06 received by Origins Laboratory, Inc. August 26, 2015. This project is associated with Origins project number X508316-01.

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



LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS6A	X508316-01	Soil	August 26, 2015 14:57	08/26/2015 16:55
SS6B	X508316-02	Soil	August 26, 2015 14:52	08/26/2015 16:55
SS6D	X508316-03	Soil	August 26, 2015 14:48	08/26/2015 16:55
SS6E	X508316-04	Soil	August 26, 2015 14:45	08/26/2015 16:55
SS6F	X508316-05	Soil	August 26, 2015 14:42	08/26/2015 16:55
SS7B	X508316-06	Soil	August 26, 2015 15:03	08/26/2015 16:55
SS7E	X508316-07	Soil	August 26, 2015 15:07	08/26/2015 16:55
SS7F	X508316-08	Soil	August 26, 2015 15:11	08/26/2015 16:55
SS8B	X508316-09	Soil	August 26, 2015 15:05	08/26/2015 16:55
SS8E	X508316-10	Soil	August 26, 2015 15:10	08/26/2015 16:55

Origins Laboratory, Inc.



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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS13B	X508316-11	Soil	August 26, 2015 14:45	08/26/2015 16:55
SS13C	X508316-12	Soil	August 26, 2015 14:47	08/26/2015 16:55
SS12C	X508316-13	Soil	August 26, 2015 14:50	08/26/2015 16:55
SS12B	X508316-14	Soil	August 26, 2015 14:52	08/26/2015 16:55
SS11A	X508316-15	Soil	August 26, 2015 14:56	08/26/2015 16:55
SS11B	X508316-16	Soil	August 26, 2015 14:54	08/26/2015 16:55
SS11C	X508316-17	Soil	August 26, 2015 15:02	08/26/2015 16:55
SS11D	X508316-18	Soil	August 26, 2015 15:05	08/26/2015 16:55
SS10A	X508316-19	Soil	August 26, 2015 15:23	08/26/2015 16:55
SS10B	X508316-20	Soil	August 26, 2015 15:29	08/26/2015 16:55

Origins Laboratory, Inc.



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LT Environmental, Inc.  
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Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS3D	X508316-21	Soil	August 26, 2015 13:50	08/26/2015 16:55
SS4A	X508316-22	Soil	August 26, 2015 14:07	08/26/2015 16:55
SS4B	X508316-23	Soil	August 26, 2015 14:04	08/26/2015 16:55
SS4C	X508316-24	Soil	August 26, 2015 14:01	08/26/2015 16:55
SS4D	X508316-25	Soil	August 26, 2015 13:56	08/26/2015 16:55
SS5A	X508316-26	Soil	August 26, 2015 14:20	08/26/2015 16:55
SS5B	X508316-27	Soil	August 26, 2015 14:24	08/26/2015 16:55
SS5C	X508316-28	Soil	August 26, 2015 14:28	08/26/2015 16:55
SS5D	X508316-29	Soil	August 26, 2015 14:34	08/26/2015 16:55
SS5E	X508316-30	Soil	August 26, 2015 14:37	08/26/2015 16:55

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Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS1A	X508316-31	Soil	August 26, 2015 13:16	08/26/2015 16:55
SS1B	X508316-32	Soil	August 26, 2015 13:18	08/26/2015 16:55
SS1C	X508316-33	Soil	August 26, 2015 13:20	08/26/2015 16:55
SS2A	X508316-34	Soil	August 26, 2015 13:36	08/26/2015 16:55
SS2B	X508316-35	Soil	August 26, 2015 13:32	08/26/2015 16:55
SS2C	X508316-36	Soil	August 26, 2015 13:28	08/26/2015 16:55
SS2D	X508316-37	Soil	August 26, 2015 13:25	08/26/2015 16:55
SS3A	X508316-38	Soil	August 26, 2015 13:39	08/26/2015 16:55
SS3B	X508316-39	Soil	August 26, 2015 13:42	08/26/2015 16:55
SS3C	X508316-40	Soil	August 26, 2015 13:47	08/26/2015 16:55

Origins Laboratory, Inc.



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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS10C	X508316-41	Soil	August 26, 2015 15:21	08/26/2015 16:55
SS10D	X508316-42	Soil	August 26, 2015 15:16	08/26/2015 16:55
SS09A	X508316-43	Soil	August 26, 2015 15:20	08/26/2015 16:55
SS09D	X508316-44	Soil	August 26, 2015 15:15	08/26/2015 16:55

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06



X508316

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page 1 of 5

Client: LTE  
 Address: 4600 W 60th Ave  
Arvada Co 80003  
 Telephone Number: 303 433 9788  
 Email Address: JohnCocroft@ltenc.com

Project Manager: John Cocroft  
 Project Name: UPRR X 13-06  
 Project Number:  
 Samples Collected By: CT. K.S. B.C.  
APR 20 # 889 72577  
APC Contract Sam LaAve

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis			Sample Instructions	
				HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summ #	Other	TPH (O&G)	EC	PH		SAR (H&M)
SS 6A	8/26	1457	2	X				X				X	X	X	Hold SAA ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
SS 6B	8/26	1452	2	X				X				X	X	X	
SS 6D	8/26	1448	2	X				X				X	X	X	
SS 6E	8/26	1445	2	X				X				X	X	X	
SS 6F	8/26	1442	2	X				X				X	X	X	
SS 7B	8/26	1503	2	X				X				X	X	X	
SS 7E	8/26	1507	2	X				X				X	X	X	
SS 7F	8/26	1511	2	X				X				X	X	X	
SS 8B	8/26	1505	2	X				X				X	X	X	
SS 8E	8/26	1510	2	X				X				X	X	X	
Relinquished By: <i>Ben Santopietro</i>	Date: 8/26/15	Time: 1655		Received By: <i>Jeff Smith</i>	Date: 8/26/15	Time: 1655		Received By:	Date:	Time:		Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>			

Date Results Needed  
 Temp Received: 58

Origins Laboratory, Inc.

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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

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page 2 of 5

X508316

Client: LTE  
 Address: 4600 W 60th Ave  
Arvada CO 80003  
 Telephone Number: 303-433-9786  
 Email Address: JOUCOFT@AEN.V.I.I.M

Project Manager: John Cocroft  
 Project Name: UPRR X 13-06  
 Project Number:  
 Samples Collected By: Kris Shepherd / Clint Terry / Brian Christopher  
APC WO # 88872577  
APC CONTACT Sam LaRue

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix				Analysis				Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air/Surface	Other	GTGX	TPH	PH	EC		SAR
Mw13B	8/24/15	1445	2	X				X	X			X	X	X	X	How SAR	1
Mw13C		1447	2	X				X	X			X	X	X	X		2
Mw12C		1450	2	X				X	X			X	X	X	X		3
Mw12B		1452	2	X				X	X			X	X	X	X		4
Mw11A		1456	2	X				X	X			X	X	X	X		5
Mw11B		1454	2	X				X	X			X	X	X	X		6
Mw11C		1502	2	X				X	X			X	X	X	X		7
Mw11D		1505	2	X				X	X			X	X	X	X		8
Mw10A		1623	2	X				X	X			X	X	X	X		9
Mw10B		1529	2	X				X	X			X	X	X	X		10
Relinquished By: <i>Brian Christopher</i>	Date: 9/26/15	Time: 1655	# of Containers: 1655	Received By: <i>Jeff Smith</i>	Date: 8/26/15	Time: 1855	Received By: <i>Jeff Smith</i>	Date: 8/26/15	Time: 1855	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>							

Date Results Needed  
 Temp Received: 5-y

Origins Laboratory, Inc.

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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

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X508316

page 3 of 5

**ORIGINS**  
 LABORATORY, INC

Client: LTE  
 Address: 4600 W 60th Ave  
Arvada Co 80003  
 Telephone Number: 303 453 9788  
 Email Address: JCocroft@env.com / see list

Project Manager: John Cocroft  
 Project Name: UPRRX 13-06  
 Project Number:  
 Samples Collected By: C.T. K.S. B.C.  
APC W# 88872-577  
APC Contract Sam Co, RUC

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 Summ #	Other	GBTEX	TPH (env)	Dro only		PH	EC
SS30	8/26/15	1350	2	X				X	X				X	X	X	X	Hold SAR →
SS4A		1407	2	X				X	X				X	X	X	X	
SS4B		1404	2	X				X	X				X	X	X	X	
SS4C		1401	2	X				X	X				X	X	X	X	
SS4D		1356	2	X				X	X				X	X	X	X	
SS5A		1420	2	X				X	X				X	X	X	X	
SS5B		1424	2	X				X	X				X	X	X	X	
SS5C		1428	2	X				X	X				X	X	X	X	
SS5D		1434	2	X				X	X				X	X	X	X	
SS5E		1437	2	X				X	X				X	X	X	X	
Relinquished By: <i>John Cocroft</i>	Date: 8/26/15	Time: 1655												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: <i>John Cocroft</i>	Date: 8/26/15	Time: 1655												Date: 8/26/15	Time: 1655		

Date Results Needed

Temp Received: 5.1

Origins Laboratory, Inc.

*Jefe Pellegrini*

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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

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 X508316  
 page 4 of 5

Client: LTE  
 Address: 4600 W 60th Ave  
 Arvada CO 80003  
 Telephone Number: 303 433-9788  
 Email Address: J.Cocroft@OriginsLab.com

Project Manager: John Cocroft  
 Project Name: UPRR X 13-06  
 Project Number:  
 Samples Collected By: CT KS BC  
 APC # 88872577  
 APC Contact: Sam Larue

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions		
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air/Surface	Other	GBTX	TPH (Gr)	Diox (Gr)		Pb	Cd
SS4A	9/26/15	1316	2	X				X				X	X	X	X	X	HWT SAR
SS1B		1318	2	X				X				X	X	X	X		
SS1C		1320	2	X				X				X	X	X	X		
SS2A		1336	2	X				X				X	X	X	X		
SS2B		1332	2	X				X				X	X	X	X		
SS2C		1328	2	X				X				X	X	X	X		
SS2D		1350/25	2	X				X				X	X	X	X		
SS3A		1339	2	X				X				X	X	X	X		
SS3B		1342	2	X				X				X	X	X	X		
SS3C		1347	2	X				X				X	X	X	X		
Relinquished By: Brian Kautz	Date: 9/26/15	Time: 1658												Relinquished By: JPP/Amk	Date: 8/26/15	Time: 1655	
Relinquished By:	Date:	Time:												Received By:	Date:	Time:	
															Lunaround Time: <input type="checkbox"/> Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard		

Date Results Needed  
 Temp Received: 5.8

Origins Laboratory, Inc.

*Jefe Pellegrini*

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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: XS08316

Client: LTE

Client Project ID: UPRR X 13-06

Checklist Completed by: Jeff Smith

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

Date/time completed: 8/26/15

Airbill #: NA

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

Cooler Number/Temperature: 1 / 5.8 °C 1 °C 1 °C 1 °C (Describe)

Thermometer ID: T203

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"/>			PH
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> ?	<u>8/26/15</u> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		All sample containers begin with SS. PG 2 and 5 begin with 1722 on COC.
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): Confirmed with Kelly K. by phone conversation that DRs/area are to be noted as low level. Confirmed with Chad T. by phone conversation that all Sample IDs on pg 2, 5 of COC begin with SS, not MMS.				
<u>8/26/15</u> <u>Jeff Smith</u>				

<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.

Jeff Smith  
 Reviewed by (Project Manager)

8/26/15  
 Date/Time Reviewed

Origins Laboratory, Inc.



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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS6A**  
**8/26/2015 2:57:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-01 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/26/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 72.9 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 118 % 70-130 " " "  
*Surrogate: Toluene-d8* 92.1 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 103 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.55		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.336		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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Origins Laboratory, Inc.



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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS6B**

**8/26/2015 2:52:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-02 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/26/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 82.2 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 117 % 70-130 " " "

*Surrogate: Toluene-d8* 93.8 % 70-130 " " "

*Surrogate: 4-Bromofluorobenzene* 104 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.83		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.211		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS6D**

**8/26/2015 2:48:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-03 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/26/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 66.5 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 123 % 70-130 " " "

*Surrogate: Toluene-d8* 93.8 % 70-130 " " "

*Surrogate: 4-Bromofluorobenzene* 104 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	6.99		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.437		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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Origins Laboratory, Inc.



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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS6E**  
**8/26/2015 2:45:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-04 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/26/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 66.2 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 121 % 70-130 " " "  
*Surrogate: Toluene-d8* 93.1 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 104 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.70		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.321		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS6F**  
**8/26/2015 2:42:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-05 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/26/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 79.3 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 118 % 70-130 " " "  
*Surrogate: Toluene-d8* 93.2 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 103 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.63		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.393		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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John Cocroft  
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 Project: KMG - UPRR X 13-06

**SS7B**  
**8/26/2015 3:03:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-06 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 69.5 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 120 % 70-130 " " "  
*Surrogate: Toluene-d8* 92.8 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 103 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.76		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.395		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS7E**  
**8/26/2015 3:07:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-07 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/26/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 65.8 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 122 % 70-130 " " "  
*Surrogate: Toluene-d8* 92.0 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 103 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.70		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.275		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS7F**

**8/26/2015 3:11:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-08 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/26/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 74.8 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 123 % 70-130 " " "

*Surrogate: Toluene-d8* 93.7 % 70-130 " " "

*Surrogate: 4-Bromofluorobenzene* 104 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.76		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.311		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS8B**

**8/26/2015 3:05:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-09 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/26/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 64.5 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 118 % 70-130 " " "

*Surrogate: Toluene-d8* 93.2 % 70-130 " " "

*Surrogate: 4-Bromofluorobenzene* 101 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.64		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.222		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS8E**  
**8/26/2015 3:10:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-10 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/26/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 67.2 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 122 % 70-130 " " "  
*Surrogate: Toluene-d8* 94.4 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 104 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.61		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.290		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS13B**  
**8/26/2015 2:45:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-11 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>	53.8 %	59-131			"	"	"	S-DUP

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	116 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	94.4 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	102 %	70-130			"	"	"	

**pH in Soil by EPA 9045D**

pH	7.37		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.216		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS13C**  
**8/26/2015 2:47:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-12 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	08/27/2015	

*Surrogate: o-Terphenyl* 91.2 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 112 % 70-130 " " "  
*Surrogate: Toluene-d8* 95.0 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 102 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.73		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.131		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS12C**  
**8/26/2015 2:50:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-13 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	08/27/2015	

*Surrogate: o-Terphenyl* 102 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 115 % 70-130 " " "  
*Surrogate: Toluene-d8* 93.7 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 103 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.55		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.175		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS12B**  
**8/26/2015 2:52:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-14 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	08/27/2015	

*Surrogate: o-Terphenyl* 74.2 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 110 % 70-130 " " "  
*Surrogate: Toluene-d8* 94.7 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 103 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.83		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.0652		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS11A**  
**8/26/2015 2:56:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-15 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	08/27/2015	

*Surrogate: o-Terphenyl* 95.5 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 113 % 70-130 " " "  
*Surrogate: Toluene-d8* 93.3 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 103 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.62		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.194		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS11B**  
**8/26/2015 2:54:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-16 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	08/27/2015	

*Surrogate: o-Terphenyl* 95.1 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 112 % 70-130 " " "  
*Surrogate: Toluene-d8* 93.7 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 104 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.48		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.215		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS11C**  
**8/26/2015 3:02:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-17 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	08/27/2015	

*Surrogate: o-Terphenyl* 111 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/27/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 109 % 70-130 " " "  
*Surrogate: Toluene-d8* 94.6 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 102 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.62		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.390		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS11D**  
**8/26/2015 3:05:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-18 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 61.6 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/27/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 115 % 70-130 " " "  
*Surrogate: Toluene-d8* 94.2 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 104 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.68		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.184		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS10A**  
**8/26/2015 3:23:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-19 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 69.5 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/27/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 117 % 70-130 " " "  
*Surrogate: Toluene-d8* 93.2 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 101 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.66		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.197		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS10B**  
**8/26/2015 3:29:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-20 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 80.1 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/27/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 118 % 70-130 " " "  
*Surrogate: Toluene-d8* 94.6 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 104 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.80		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.209		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS3D**  
**8/26/2015 1:50:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-21 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	08/27/2015	

*Surrogate: o-Terphenyl* 96.5 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/27/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 118 % 70-130 " " "  
*Surrogate: Toluene-d8* 94.0 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 104 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.61		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.405		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS4A**  
**8/26/2015 2:07:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-22 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015	
Residual Range Organics (C28-C36)	<b>120</b>	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 117 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/27/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 118 % 70-130 " " "  
*Surrogate: Toluene-d8* 93.1 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 103 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	<b>7.54</b>		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	<b>0.415</b>		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS4B**  
**8/26/2015 2:04:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-23 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 72.4 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/27/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 117 % 70-130 " " "  
*Surrogate: Toluene-d8* 93.7 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 103 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.52		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.608		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS4C**  
**8/26/2015 2:01:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-24 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 94.4 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/27/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 117 % 70-130 " " "  
*Surrogate: Toluene-d8* 94.1 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 105 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.52		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.240		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS4D**

**8/26/2015 1:56:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-25 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>	16.0 %	59-131			"	"	"	S-DUP

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/27/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	118 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	94.3 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	103 %	70-130			"	"	"	

**pH in Soil by EPA 9045D**

pH	7.56		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.378		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS5A**  
**8/26/2015 2:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-26 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 77.8 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 124 % 70-130 " " "  
*Surrogate: Toluene-d8* 101 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 108 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.39		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.304		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS5B**

**8/26/2015 2:24:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-27 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 103 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

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

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

*Surrogate: 4-Bromofluorobenzene* 105 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.56		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.282		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS5C**  
**8/26/2015 2:28:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-28 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 75.7 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 128 % 70-130 " " "  
*Surrogate: Toluene-d8* 101 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 107 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.48		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.359		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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Origins Laboratory, Inc.



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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS5D**

**8/26/2015 2:34:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-29 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015	
Residual Range Organics (C28-C36)	<b>110</b>	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 76.4 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 128 % 70-130 " " "  
*Surrogate: Toluene-d8* 101 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 108 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.37		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	<b>0.280</b>		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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Origins Laboratory, Inc.



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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS5E**  
**8/26/2015 2:37:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-30 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 75.0 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 127 % 70-130 " " "  
*Surrogate: Toluene-d8* 101 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 106 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.72		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.221		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS1A**  
**8/26/2015 1:16:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-31 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	08/27/2015	

*Surrogate: o-Terphenyl* 104 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 119 % 70-130 " " "  
*Surrogate: Toluene-d8* 99.2 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 102 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.61		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.291		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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Origins Laboratory, Inc.



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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS1B**  
**8/26/2015 1:18:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-32 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 71.6 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 119 % 70-130 " " "  
*Surrogate: Toluene-d8* 103 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 106 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.71		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.222		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS1C**  
**8/26/2015 1:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-33 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 76.6 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 125 % 70-130 " " "  
*Surrogate: Toluene-d8* 102 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 105 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.45		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.378		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS2A**  
**8/26/2015 1:36:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-34 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 63.6 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 126 % 70-130 " " "  
*Surrogate: Toluene-d8* 104 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 105 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.76		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.190		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS2B**  
**8/26/2015 1:32:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-35 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 63.7 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 123 % 70-130 " " "  
*Surrogate: Toluene-d8* 103 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 106 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.54		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.314		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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LT Environmental, Inc.  
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 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS2C**  
**8/26/2015 1:28:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-36 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 64.0 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 121 % 70-130 " " "  
*Surrogate: Toluene-d8* 103 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 107 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.73		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.251		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS2D**  
**8/26/2015 1:25:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-37 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 63.5 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 124 % 70-130 " " "  
*Surrogate: Toluene-d8* 102 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 103 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.57		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.296		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS3A**  
**8/26/2015 1:39:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-38 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 66.1 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/27/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 122 % 70-130 " " "  
*Surrogate: Toluene-d8* 102 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 105 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.45		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.374		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS3B**  
**8/26/2015 1:42:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-39 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

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

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/27/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 125 % 70-130 " " "  
*Surrogate: Toluene-d8* 104 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 106 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.41		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.360		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS3C**

**8/26/2015 1:47:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-40 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015	
Residual Range Organics (C28-C36)	<b>230</b>	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 106 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/27/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 127 % 70-130 " " "  
*Surrogate: Toluene-d8* 102 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 104 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.28		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	<b>0.316</b>		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS10C**  
**8/26/2015 3:21:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-41 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	08/27/2015	

*Surrogate: o-Terphenyl* 96.1 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/27/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 123 % 70-130 " " "  
*Surrogate: Toluene-d8* 102 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 105 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.60		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.296		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS10D**  
**8/26/2015 3:16:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-42 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 91.6 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/27/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 124 % 70-130 " " "  
*Surrogate: Toluene-d8* 105 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 108 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.91		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.166		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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LT Environmental, Inc.  
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 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS09A**  
**8/26/2015 3:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-43 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 70.5 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/27/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 127 % 70-130 " " "  
*Surrogate: Toluene-d8* 108 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 106 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.68		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.257		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS09D**  
**8/26/2015 3:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-44 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 75.1 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	5H26006	08/26/2015	08/27/2015	
Benzene	ND	0.050	"	"	"	"	"	
Toluene	ND	0.050	"	"	"	"	"	
Ethylbenzene	ND	0.050	"	"	"	"	"	
Xylenes, total	ND	0.050	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 112 % 70-130 " " "  
*Surrogate: Toluene-d8* 106 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 109 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.48		pH Units	1	5H26013	08/26/2015	08/26/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.622		mmhos/cm	"	5H26014	08/26/2015	08/27/2015	
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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**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 5H26006 - EPA 5030 (soil)**

**Blank (5H26006-BLK1)**

Prepared: 08/26/2015 Analyzed: 08/26/2015

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Surrogate: 1,2-Dichloroethane-d4	69.8		ug/kg	62.5		112	70-130			
Surrogate: Toluene-d8	64.1		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	64.9		"	62.5		104	70-130			

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Jen Pellegrini For Noelle Doyle Mathis, President

LT Environmental, Inc.  
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 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**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 5H26006 - EPA 5030 (soil)**

**Blank (5H26006-BLK2)**

Prepared: 08/26/2015 Analyzed: 08/26/2015

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Surrogate: 1,2-Dichloroethane-d4	75.9		ug/kg	62.5		121	70-130			
Surrogate: Toluene-d8	63.5		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	66.1		"	62.5		106	70-130			

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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**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 5H26006 - EPA 5030 (soil)**

**Blank (5H26006-BLK3)**

Prepared: 08/26/2015 Analyzed: 08/26/2015

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Surrogate: 1,2-Dichloroethane-d4	77.9		ug/kg	62.5		125	70-130			
Surrogate: Toluene-d8	64.6		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	66.6		"	62.5		107	70-130			

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LT Environmental, Inc.  
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 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**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 5H26006 - EPA 5030 (soil)**

**LCS (5H26006-BS1)**

Prepared: 08/26/2015 Analyzed: 08/26/2015

Benzene	0.106	0.002	mg/kg	0.100		106	77.1-124			
Toluene	0.102	0.002	"	0.100		102	74.5-128			
Ethylbenzene	0.101	0.002	"	0.100		101	66.4-127			
m,p-Xylene	0.199	0.004	"	0.200		99.3	76.6-124			
o-Xylene	0.096	0.002	"	0.100		95.9	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	67.3		ug/kg	62.5		108	70-130			
Surrogate: Toluene-d8	64.2		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	64.2		"	62.5		103	70-130			

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John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**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 5H26006 - EPA 5030 (soil)**

**LCS (5H26006-BS2)**

Prepared: 08/26/2015 Analyzed: 08/26/2015

Benzene	0.096	0.002	mg/kg	0.100		95.9	77.1-124			
Toluene	0.092	0.002	"	0.100		92.1	74.5-128			
Ethylbenzene	0.088	0.002	"	0.100		88.1	66.4-127			
m,p-Xylene	0.180	0.004	"	0.200		89.9	76.6-124			
o-Xylene	0.088	0.002	"	0.100		88.3	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	71.6		ug/kg	62.5		115	70-130			
Surrogate: Toluene-d8	64.4		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	67.5		"	62.5		108	70-130			

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LT Environmental, Inc.  
 4600 West 60th Avenue  
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John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**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 5H26006 - EPA 5030 (soil)**

**LCS (5H26006-BS3)**

Prepared: 08/26/2015 Analyzed: 08/26/2015

Benzene	0.105	0.002	mg/kg	0.100		105	77.1-124			
Toluene	0.105	0.002	"	0.100		105	74.5-128			
Ethylbenzene	0.101	0.002	"	0.100		101	66.4-127			
m,p-Xylene	0.196	0.004	"	0.200		98.2	76.6-124			
o-Xylene	0.101	0.002	"	0.100		101	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	73.0		ug/kg	62.5		117	70-130			
Surrogate: Toluene-d8	64.5		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	66.8		"	62.5		107	70-130			

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LT Environmental, Inc.  
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John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**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 5H26006 - EPA 5030 (soil)**

**LCS Dup (5H26006-BSD3)**

Prepared: 08/26/2015 Analyzed: 08/26/2015

Benzene	0.097	0.002	mg/kg	0.100		96.5	77.1-124	8.05	20	
Toluene	0.094	0.002	"	0.100		94.3	74.5-128	10.5	20	
Ethylbenzene	0.088	0.002	"	0.100		88.5	66.4-127	13.0	20	
m,p-Xylene	0.177	0.004	"	0.200		88.5	76.6-124	10.4	20	
o-Xylene	0.091	0.002	"	0.100		90.9	76.6-124	10.1	20	
Surrogate: 1,2-Dichloroethane-d4	73.0		ug/kg	62.5		117	70-130			
Surrogate: Toluene-d8	64.6		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	64.8		"	62.5		104	70-130			

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LT Environmental, Inc.  
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 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**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 5H26006 - EPA 5030 (soil)**

<b>Matrix Spike (5H26006-MS1)</b>	<b>Source: X508278-02</b>			<b>Prepared: 08/26/2015 Analyzed: 08/26/2015</b>						
Benzene	0.100	0.002	mg/kg	0.100	ND	99.5	71.8-126			
Toluene	0.098	0.002	"	0.100	ND	98.4	65.1-130			
Ethylbenzene	0.095	0.002	"	0.100	ND	94.9	62.2-130			
m,p-Xylene	0.187	0.004	"	0.200	ND	93.3	46.5-137			
o-Xylene	0.092	0.002	"	0.100	ND	92.4	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	67.5		ug/kg	62.5		108	70-130			
Surrogate: Toluene-d8	62.9		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64.0		"	62.5		102	70-130			

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John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**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 5H26006 - EPA 5030 (soil)**

<b>Matrix Spike (5H26006-MS2)</b>	<b>Source: X508311-01</b>			<b>Prepared: 08/26/2015 Analyzed: 08/26/2015</b>						
Benzene	0.099	0.002	mg/kg	0.100	ND	98.5	71.8-126			
Toluene	0.090	0.002	"	0.100	ND	90.4	65.1-130			
Ethylbenzene	0.089	0.002	"	0.100	ND	88.8	62.2-130			
m,p-Xylene	0.172	0.004	"	0.200	ND	85.8	46.5-137			
o-Xylene	0.087	0.002	"	0.100	ND	86.5	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	73.6		ug/kg	62.5		118	70-130			
Surrogate: Toluene-d8	63.5		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	68.1		"	62.5		109	70-130			

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John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**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 5H26006 - EPA 5030 (soil)**

<b>Matrix Spike Dup (5H26006-MSD1)</b>	<b>Source: X508278-02</b>			<b>Prepared: 08/26/2015 Analyzed: 08/26/2015</b>						
Benzene	0.098	0.002	mg/kg	0.100	ND	98.3	71.8-126	1.29	11.3	
Toluene	0.096	0.002	"	0.100	ND	96.1	65.1-130	2.39	15.4	
Ethylbenzene	0.088	0.002	"	0.100	ND	87.7	62.2-130	7.91	19.6	
m,p-Xylene	0.184	0.004	"	0.200	ND	91.9	46.5-137	1.49	19.2	
o-Xylene	0.091	0.002	"	0.100	ND	91.0	54.2-134	1.51	17.9	
Surrogate: 1,2-Dichloroethane-d4	69.7		ug/kg	62.5		111	70-130			
Surrogate: Toluene-d8	64.2		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	65.3		"	62.5		104	70-130			

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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**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 5H26006 - EPA 5030 (soil)**

<b>Matrix Spike Dup (5H26006-MSD2)</b>	<b>Source: X508311-01</b>			<b>Prepared: 08/26/2015 Analyzed: 08/26/2015</b>						
Benzene	0.097	0.002	mg/kg	0.100	ND	97.4	71.8-126	1.10	11.3	
Toluene	0.094	0.002	"	0.100	ND	93.7	65.1-130	3.59	15.4	
Ethylbenzene	0.084	0.002	"	0.100	ND	84.5	62.2-130	4.99	19.6	
m,p-Xylene	0.163	0.004	"	0.200	ND	81.4	46.5-137	5.22	19.2	
o-Xylene	0.085	0.002	"	0.100	ND	84.8	54.2-134	2.01	17.9	
Surrogate: 1,2-Dichloroethane-d4	77.2		ug/kg	62.5		123	70-130			
Surrogate: Toluene-d8	65.0		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	66.2		"	62.5		106	70-130			

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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**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 5H26011 - EPA 3580**

**Blank (5H26011-BLK1)**

Prepared: 08/26/2015 Analyzed: 08/26/2015

Diesel (C10-C28)	ND	50	mg/kg							
Residual Range Organics (C28-C36)	ND	200	"							
Surrogate: o-Terphenyl	61		"	50.0		122	59-131			

**Blank (5H26011-BLK2)**

Prepared: 08/26/2015 Analyzed: 08/26/2015

Diesel (C10-C28)	ND	50	mg/kg							
Residual Range Organics (C28-C36)	ND	200	"							
Surrogate: o-Terphenyl	55		"	50.0		110	59-131			

**Blank (5H26011-BLK3)**

Prepared: 08/26/2015 Analyzed: 08/26/2015

Diesel (C10-C28)	ND	50	mg/kg							
Residual Range Organics (C28-C36)	ND	200	"							
Surrogate: o-Terphenyl	55		"	50.0		109	59-131			

**LCS (5H26011-BS1)**

Prepared: 08/26/2015 Analyzed: 08/26/2015

Diesel (C10-C28)	860	50	mg/kg				64-121			
Residual Range Organics (C28-C36)	790	200	"	1000		78.8	58-124			
Surrogate: o-Terphenyl	44		"	50.0		87.1	59-131			

**LCS (5H26011-BS2)**

Prepared: 08/26/2015 Analyzed: 08/26/2015

Diesel (C10-C28)	970	50	mg/kg				64-121			
Residual Range Organics (C28-C36)	1000	200	"	1000		102	58-124			

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.

LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**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 5H26011 - EPA 3580</b>										
<b>LCS (5H26011-BS2)</b>					Prepared: 08/26/2015 Analyzed: 08/26/2015					
Surrogate: o-Terphenyl	51		mg/kg	50.0		101	59-131			
<b>LCS (5H26011-BS3)</b>					Prepared: 08/26/2015 Analyzed: 08/26/2015					
Diesel (C10-C28)	920	50	mg/kg				64-121			
Residual Range Organics (C28-C36)	810	200	"	1000		80.6	58-124			
Surrogate: o-Terphenyl	47		"	50.0		94.6	59-131			
<b>Matrix Spike (5H26011-MS1)</b>		<b>Source: X508299-01</b>			Prepared: 08/26/2015 Analyzed: 08/26/2015					
Diesel (C10-C28)	1100	50	mg/kg		120		53-125			
Residual Range Organics (C28-C36)	1100	200	"	1000	72	101	47-133			
Surrogate: o-Terphenyl	50		"	50.0		101	59-131			
<b>Matrix Spike (5H26011-MS2)</b>		<b>Source: X508309-01</b>			Prepared: 08/26/2015 Analyzed: 08/26/2015					
Diesel (C10-C28)	5300	50	mg/kg		5100		53-125			
Residual Range Organics (C28-C36)	5500	200	"	1000	4500	97.6	47-133			
Surrogate: o-Terphenyl	48		"	50.0		95.7	59-131			
<b>Matrix Spike (5H26011-MS3)</b>		<b>Source: X508311-01</b>			Prepared: 08/26/2015 Analyzed: 08/26/2015					
Diesel (C10-C28)	1100	50	mg/kg		55		53-125			
Residual Range Organics (C28-C36)	1100	200	"	1000	110	99.8	47-133			
Surrogate: o-Terphenyl	49		"	50.0		97.1	59-131			
<b>Matrix Spike Dup (5H26011-MSD1)</b>		<b>Source: X508299-01</b>			Prepared: 08/26/2015 Analyzed: 08/26/2015					
Diesel (C10-C28)	1100	50	mg/kg		120		53-125	2.01	20	
Residual Range Organics (C28-C36)	1100	200	"	1000	72	100	47-133	0.429	20	
Surrogate: o-Terphenyl	52		"	50.0		103	59-131			
<b>Matrix Spike Dup (5H26011-MSD2)</b>		<b>Source: X508309-01</b>			Prepared: 08/26/2015 Analyzed: 08/26/2015					

Origins Laboratory, Inc.



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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**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 5H26011 - EPA 3580**

<b>Matrix Spike Dup (5H26011-MSD2)</b>		<b>Source: X508309-01</b>			<b>Prepared: 08/26/2015 Analyzed: 08/26/2015</b>					
Diesel (C10-C28)	4800	50	mg/kg		5100		53-125	8.63	20	
Residual Range Organics (C28-C36)	4000	200	"	1000	4500	NR	47-133	30.8	20	QM-4X
<i>Surrogate: o-Terphenyl</i>	49		"	50.0		97.7	59-131			
<b>Matrix Spike Dup (5H26011-MSD3)</b>		<b>Source: X508311-01</b>			<b>Prepared: 08/26/2015 Analyzed: 08/26/2015</b>					
Diesel (C10-C28)	1000	50	mg/kg		55		53-125	2.00	20	
Residual Range Organics (C28-C36)	1100	200	"	1000	110	94.3	47-133	5.13	20	
<i>Surrogate: o-Terphenyl</i>	43		"	50.0		86.9	59-131			

Origins Laboratory, Inc.



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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 5H26013 - NO PREP</b>										
<b>Duplicate (5H26013-DUP1)</b>		<b>Source: X508316-01</b>			Prepared: 08/26/2015 Analyzed: 08/26/2015					
pH	7.78		pH Units		7.55			3.00	25	
<b>Duplicate (5H26013-DUP2)</b>		<b>Source: X508316-02</b>			Prepared: 08/26/2015 Analyzed: 08/26/2015					
pH	7.92		pH Units		7.83			1.14	25	
<b>Duplicate (5H26013-DUP3)</b>		<b>Source: X508316-03</b>			Prepared: 08/26/2015 Analyzed: 08/26/2015					
pH	7.06		pH Units		6.99			0.996	25	
<b>Batch 5H26014 - NO PREP</b>										
<b>Blank (5H26014-BLK1)</b>					Prepared: 08/26/2015 Analyzed: 08/27/2015					
Specific Conductance (EC)	0.00340		mmhos/cm							
<b>Blank (5H26014-BLK2)</b>					Prepared: 08/26/2015 Analyzed: 08/27/2015					
Specific Conductance (EC)	0.00340		mmhos/cm							
<b>Blank (5H26014-BLK3)</b>					Prepared: 08/26/2015 Analyzed: 08/27/2015					
Specific Conductance (EC)	0.00340		mmhos/cm							
<b>Duplicate (5H26014-DUP1)</b>		<b>Source: X508316-01</b>			Prepared: 08/26/2015 Analyzed: 08/27/2015					
Specific Conductance (EC)	0.343		mmhos/cm		0.336			2.06	25	
<b>Duplicate (5H26014-DUP2)</b>		<b>Source: X508316-02</b>			Prepared: 08/26/2015 Analyzed: 08/27/2015					
Specific Conductance (EC)	0.208		mmhos/cm		0.211			1.43	25	
<b>Duplicate (5H26014-DUP3)</b>		<b>Source: X508316-03</b>			Prepared: 08/26/2015 Analyzed: 08/27/2015					
Specific Conductance (EC)	0.417		mmhos/cm		0.437			4.68	25	

Origins Laboratory, Inc.



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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

---

**Notes and Definitions**

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

QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.

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

September 02, 2015

LT Environmental, Inc.

John Cocroft

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - UPRR X 13-06

Project Number - [none]

Attached are your analytical results for KMG - UPRR X 13-06 received by Origins Laboratory, Inc. September 01, 2015. This project is associated with Origins project number X509012-01.

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



LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N01 @ 1'	X509012-01	Soil	September 1, 2015 11:50	09/01/2015 16:30
N02 @ 1'	X509012-02	Soil	September 1, 2015 11:55	09/01/2015 16:30
E01 @ 1'	X509012-03	Soil	September 1, 2015 12:00	09/01/2015 16:30
W01 @ 1'	X509012-04	Soil	September 1, 2015 12:05	09/01/2015 16:30
S01 @ 3'	X509012-05	Soil	September 1, 2015 12:10	09/01/2015 16:30
S02 @ 3'	X509012-06	Soil	September 1, 2015 12:15	09/01/2015 16:30
B01 @ 5'	X509012-07	Soil	September 1, 2015 12:20	09/01/2015 16:30
B02 @ 2'	X509012-08	Soil	September 1, 2015 12:25	09/01/2015 16:30
SS6C @ 2"	X509012-09	Soil	September 1, 2015 13:05	09/01/2015 16:30
SS7C @ 2"	X509012-10	Soil	September 1, 2015 13:10	09/01/2015 16:30

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.*

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS7D @ 2"	X509012-11	Soil	September 1, 2015 13:15	09/01/2015 16:30
SS8C @ 2"	X509012-12	Soil	September 1, 2015 13:20	09/01/2015 16:30
SS8D @ 2"	X509012-13	Soil	September 1, 2015 13:25	09/01/2015 16:30
SS9B @ 2"	X509012-14	Soil	September 1, 2015 13:30	09/01/2015 16:30

Origins Laboratory, Inc.



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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

www.originslaboratory.com

page 1 of 2



X509012

Client: LTE  
 Address: 4600 W 60th Ave.  
 Telephone Number: 303-433-9788  
 Email Address: Jcocroft@ltenv.com

Project Manager: John Cocroft  
 Project Name: UPRR X13-06  
 Project Number:  
 Samples Collected By: Kris Shepherd  
 303-888-7277  
 Invoice to Sam LaRue

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 #	TPH	DE	VC		VP
N01E1'	9/1/15	1150	2	X				X				X	X	X	TPH is 020/080 only Hold SAK
N02E1'		1155	2	X				X				X	X	X	
E01E1'		1200	2	X				X				X	X	X	
N01E1'		1205	2	X				X				X	X	X	
S01E3'		1210	2	X				X				X	X	X	
S02E3'		1215	2	X				X				X	X	X	
B01E5'		1220	2	X				X				X	X	X	
B02E2'		1225	2	X				X				X	X	X	
S56CE2'		1305	2	X				X				X	X	X	
S57CE2'		1310	2	X				X				X	X	X	
Relinquished By: [Signature]	Date: 9/1/15	Time: 1540						Received By: [Signature]	Date: 9/1/15	Time: 1540				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: [Signature]	Date: 9/1/15	Time: 1600						Received By: [Signature]	Date: 9/1/15	Time: 1630				Standard <input checked="" type="checkbox"/>	

Date Results Needed 9/2/15 0800

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.



LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: XSOA017

Client: LTE

Client Project ID: UPRR X13-06

Checklist Completed by: Jefe Smith

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

Date/time completed: 9/1/15

Airbill #: NA

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

Cooler Number/Temperature: 1 / 6.3 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		X		Sampled Same Day
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact <sup>(1)</sup> ?	X			
Was adequate sample volume provided <sup>(1)</sup> ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	X			pH
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	X			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	X			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	X			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			X	
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)			X	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 09-01-15 1657

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.

LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**N01 @ 1'**  
**9/1/2015 11:50:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X509012-01 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	55	25	mg/kg	1	5101014	09/01/2015	09/01/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 103 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	0.474	0.200	mg/kg	1	5101013	09/01/2015	09/01/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	0.020	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 111 % 70-130 " " "  
 Surrogate: Toluene-d8 96.3 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 99.5 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	8.00		pH Units	1	5101015	09/01/2015	09/01/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.412		mmhos/cm	"	5101016	09/01/2015	09/01/2015	
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Origins Laboratory, Inc.



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 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**N02 @ 1'**  
**9/1/2015 11:55:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X509012-02 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	44	25	mg/kg	1	5101014	09/01/2015	09/01/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 102 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	0.301	0.200	mg/kg	1	5101013	09/01/2015	09/01/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	0.008	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 121 % 70-130 " " "  
 Surrogate: Toluene-d8 102 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	8.24		pH Units	1	5101015	09/01/2015	09/01/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.512		mmhos/cm	"	5101016	09/01/2015	09/01/2015	
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Origins Laboratory, Inc.



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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**E01 @ 1'**  
**9/1/2015 12:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X509012-03 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5101014	09/01/2015	09/02/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>	46.8 %	59-131			"	"	"	S-DUP

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	<b>0.449</b>	0.200	mg/kg	1	5101013	09/01/2015	09/01/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	<b>0.002</b>	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	<b>0.022</b>	0.002	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	114 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	100 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	103 %	70-130			"	"	"	

**pH in Soil by EPA 9045D**

pH	<b>8.35</b>		pH Units	1	5101015	09/01/2015	09/01/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	<b>0.458</b>		mmhos/cm	"	5101016	09/01/2015	09/01/2015	
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Origins Laboratory, Inc.



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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**W01 @ 1'**  
**9/1/2015 12:05:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X509012-04 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	44	25	mg/kg	1	5101014	09/01/2015	09/01/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 77.1 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	0.278	0.200	mg/kg	1	5101013	09/01/2015	09/01/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	0.011	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 112 % 70-130 " " "  
*Surrogate: Toluene-d8* 98.2 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 102 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	8.41		pH Units	1	5101015	09/01/2015	09/01/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.390		mmhos/cm	"	5101016	09/01/2015	09/01/2015	
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 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**S01 @ 3'**  
**9/1/2015 12:10:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X509012-05 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	59	25	mg/kg	1	5101014	09/01/2015	09/01/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 98.0 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	2.39	0.200	mg/kg	1	5101013	09/01/2015	09/01/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 116 % 70-130 " " "  
*Surrogate: Toluene-d8* 100 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 103 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	8.20		pH Units	1	5101015	09/01/2015	09/01/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.601		mmhos/cm	"	5101016	09/01/2015	09/01/2015	
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 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**S02 @ 3'**  
**9/1/2015 12:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X509012-06 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5101014	09/01/2015	09/02/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>	54.6 %	59-131			"	"	"	S-DUP

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	<b>0.256</b>	0.200	mg/kg	1	5101013	09/01/2015	09/01/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	114 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	98.8 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	103 %	70-130			"	"	"	

**pH in Soil by EPA 9045D**

pH	<b>8.33</b>		pH Units	1	5101015	09/01/2015	09/01/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	<b>0.446</b>		mmhos/cm	"	5101016	09/01/2015	09/01/2015	
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 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**B01 @ 5'**  
**9/1/2015 12:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X509012-07 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	65	25	mg/kg	1	5101014	09/01/2015	09/02/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 86.6 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	2.74	0.200	mg/kg	1	5101013	09/01/2015	09/01/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	0.040	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 122 % 70-130 " " "  
 Surrogate: Toluene-d8 103 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	8.74		pH Units	1	5101015	09/01/2015	09/01/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.526		mmhos/cm	"	5101016	09/01/2015	09/01/2015	
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John Cocroft  
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 Project: KMG - UPRR X 13-06

**B02 @ 2'**  
**9/1/2015 12:25:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X509012-08 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	33	25	mg/kg	1	5101014	09/01/2015	09/02/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 111 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	0.290	0.200	mg/kg	1	5101013	09/01/2015	09/01/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 119 % 70-130 " " "  
*Surrogate: Toluene-d8* 100 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 102 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	8.51		pH Units	1	5101015	09/01/2015	09/01/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.420		mmhos/cm	"	5101016	09/01/2015	09/01/2015	
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John Cocroft  
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 Project: KMG - UPRR X 13-06

**SS6C @ 2"**  
**9/1/2015 1:05:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X509012-09 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	61	25	mg/kg	1	5101014	09/01/2015	09/02/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 114 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5101013	09/01/2015	09/01/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	0.002	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	0.005	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 122 % 70-130 " " "  
*Surrogate: Toluene-d8* 101 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 102 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	8.08		pH Units	1	5101015	09/01/2015	09/01/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.222		mmhos/cm	"	5101016	09/01/2015	09/01/2015	
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 Project: KMG - UPRR X 13-06

**SS7C @ 2"**  
**9/1/2015 1:10:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X509012-10 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	120	25	mg/kg	1	5101014	09/01/2015	09/02/2015	
Residual Range Organics (C28-C36)	120	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 113 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5101013	09/01/2015	09/01/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	0.002	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	0.013	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 117 % 70-130 " " "  
 Surrogate: Toluene-d8 99.2 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.60		pH Units	1	5101015	09/01/2015	09/01/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.300		mmhos/cm	"	5101016	09/01/2015	09/01/2015	
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 Project: KMG - UPRR X 13-06

**SS7D @ 2"**  
**9/1/2015 1:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X509012-11 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	41	25	mg/kg	1	5101014	09/01/2015	09/02/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 109 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	0.224	0.200	mg/kg	1	5101013	09/01/2015	09/01/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	0.002	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	0.011	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 123 % 70-130 " " "  
*Surrogate: Toluene-d8* 104 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 104 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.88		pH Units	1	5101015	09/01/2015	09/01/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.250		mmhos/cm	"	5101016	09/01/2015	09/01/2015	
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John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS8C @ 2"**  
**9/1/2015 1:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X509012-12 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	92	25	mg/kg	1	5101014	09/01/2015	09/02/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

Surrogate: o-Terphenyl 81.0 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	55.3	5.00	mg/kg	25	5101013	09/01/2015	09/01/2015	
Benzene	ND	0.050	"	"	"	"	"	
Toluene	ND	0.050	"	"	"	"	"	
Ethylbenzene	ND	0.050	"	"	"	"	"	
Xylenes, total	0.490	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "  
 Surrogate: Toluene-d8 97.7 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	8.08		pH Units	1	5101015	09/01/2015	09/01/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.284		mmhos/cm	"	5101016	09/01/2015	09/01/2015	
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John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS8D @ 2"**  
**9/1/2015 1:25:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X509012-13 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5101014	09/01/2015	09/02/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>	36.4 %	59-131			"	"	"	S-DUP

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	<b>0.451</b>	0.200	mg/kg	1	5101013	09/01/2015	09/01/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	<b>0.008</b>	0.002	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	114 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	101 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	99.6 %	70-130			"	"	"	

**pH in Soil by EPA 9045D**

pH	<b>8.35</b>		pH Units	1	5101015	09/01/2015	09/01/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	<b>0.149</b>		mmhos/cm	"	5101016	09/01/2015	09/01/2015	
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 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**SS9B @ 2"**  
**9/1/2015 1:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X509012-14 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	26	25	mg/kg	1	5101014	09/01/2015	09/02/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 106 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	0.239	0.200	mg/kg	1	5101013	09/01/2015	09/02/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	0.002	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	0.016	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 120 % 70-130 " " "  
*Surrogate: Toluene-d8* 104 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 101 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	8.16		pH Units	1	5101015	09/01/2015	09/01/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.400		mmhos/cm	"	5101016	09/01/2015	09/01/2015	
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 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**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 5101013 - EPA 5030 (soil)**

**Blank (5101013-BLK1)**

Prepared: 09/01/2015 Analyzed: 09/01/2015

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Surrogate: 1,2-Dichloroethane-d4	71.1		ug/kg	62.5		114	70-130			
Surrogate: Toluene-d8	62.1		"	62.5		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	65.4		"	62.5		105	70-130			

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LT Environmental, Inc.  
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 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**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 5101013 - EPA 5030 (soil)**

**LCS (5101013-BS1)**

Prepared: 09/01/2015 Analyzed: 09/01/2015

Benzene	0.107	0.002	mg/kg	0.100		107	77.1-124			
Toluene	0.106	0.002	"	0.100		106	74.5-128			
Ethylbenzene	0.100	0.002	"	0.100		99.7	66.4-127			
m,p-Xylene	0.199	0.004	"	0.200		99.5	76.6-124			
o-Xylene	0.102	0.002	"	0.100		102	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	69.9		ug/kg	62.5		112	70-130			
Surrogate: Toluene-d8	62.6		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	64.0		"	62.5		102	70-130			

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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**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 5101013 - EPA 5030 (soil)**

<b>Matrix Spike (5101013-MS1)</b>	<b>Source: X509005-01</b>			<b>Prepared: 09/01/2015 Analyzed: 09/01/2015</b>						
Benzene	0.091	0.002	mg/kg	0.100	ND	91.4	71.8-126			
Toluene	0.086	0.002	"	0.100	ND	86.5	65.1-130			
Ethylbenzene	0.081	0.002	"	0.100	ND	81.5	62.2-130			
m,p-Xylene	0.164	0.004	"	0.200	ND	81.8	46.5-137			
o-Xylene	0.081	0.002	"	0.100	ND	81.2	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	76.2		ug/kg	62.5		122	70-130			
Surrogate: Toluene-d8	63.4		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62.5		"	62.5		100	70-130			

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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**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 5101013 - EPA 5030 (soil)**

<b>Matrix Spike Dup (5101013-MSD1)</b>	<b>Source: X509005-01</b>			<b>Prepared: 09/01/2015 Analyzed: 09/01/2015</b>						
Benzene	0.086	0.002	mg/kg	0.100	ND	86.2	71.8-126	5.85	11.3	
Toluene	0.081	0.002	"	0.100	ND	81.0	65.1-130	6.54	15.4	
Ethylbenzene	0.079	0.002	"	0.100	ND	79.1	62.2-130	2.96	19.6	
m,p-Xylene	0.155	0.004	"	0.200	ND	77.3	46.5-137	5.67	19.2	
o-Xylene	0.078	0.002	"	0.100	ND	78.4	54.2-134	3.53	17.9	
Surrogate: 1,2-Dichloroethane-d4	74.1		ug/kg	62.5		118	70-130			
Surrogate: Toluene-d8	61.8		"	62.5		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	63.9		"	62.5		102	70-130			

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John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**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 5101014 - EPA 3580**

**Blank (5101014-BLK1)**

Prepared: 09/01/2015 Analyzed: 09/01/2015

Diesel (C10-C28)	ND	50	mg/kg							
Residual Range Organics (C28-C36)	ND	200	"							
Surrogate: o-Terphenyl	63		"	50.0		125	59-131			

**LCS (5101014-BS1)**

Prepared: 09/01/2015 Analyzed: 09/01/2015

Diesel (C10-C28)	1100	50	mg/kg				64-121			
Residual Range Organics (C28-C36)	880	200	"	1000		87.8	58-124			
Surrogate: o-Terphenyl	60		"	50.0		119	59-131			

**Matrix Spike (5101014-MS1)**

**Source: X509005-01**

Prepared: 09/01/2015 Analyzed: 09/01/2015

Diesel (C10-C28)	910	50	mg/kg		36		53-125			
Residual Range Organics (C28-C36)	770	200	"	1000	81	68.7	47-133			
Surrogate: o-Terphenyl	49		"	50.0		98.9	59-131			

**Matrix Spike Dup (5101014-MSD1)**

**Source: X509005-01**

Prepared: 09/01/2015 Analyzed: 09/01/2015

Diesel (C10-C28)	860	50	mg/kg		36		53-125	5.24	20	
Residual Range Organics (C28-C36)	720	200	"	1000	81	63.9	47-133	6.46	20	
Surrogate: o-Terphenyl	44		"	50.0		89.0	59-131			

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LT Environmental, Inc.  
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 Arvada CO 80003

John Cocroft  
 Project Number: [none]  
 Project: KMG - UPRR X 13-06

**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 5I01015 - NO PREP</b>										
<b>Duplicate (5I01015-DUP1)</b>		<b>Source: X509012-01</b>			Prepared: 09/01/2015 Analyzed: 09/01/2015					
pH	7.92		pH Units		8.00			1.01	25	
<b>Batch 5I01016 - NO PREP</b>										
<b>Blank (5I01016-BLK1)</b>		Prepared: 09/01/2015 Analyzed: 09/01/2015								
Specific Conductance (EC)	0.00260		mmhos/cm							
<b>Duplicate (5I01016-DUP1)</b>		<b>Source: X509012-01</b>			Prepared: 09/01/2015 Analyzed: 09/01/2015					
Specific Conductance (EC)	0.393		mmhos/cm		0.412			4.72	25	

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LT Environmental, Inc.  
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Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

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### Notes and Definitions

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.

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Jen Pellegrini For Noelle Doyle Mathis, President