

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
LEE USX VV 15-3
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Soil Sample ID	Depth (bgs)	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	DRO (mg/kg)	GRO (mg/kg)	ORO (mg/kg)	pH (su)	Specific Conductance (mmhos/cm)
B01@13'	13'	03/09/2017	<0.050	<0.050	<0.050	<0.050	<25.0	<5.00	<100	8.96	0.675
B02@15'	15'	03/09/2017	<0.050	<0.050	<0.050	<0.050	<25.0	<5.00	<100	8.97	0.591
B03@13'	13'	03/09/2017	<0.050	<0.050	<0.050	<0.050	<25.0	<5.00	<100	8.51	0.677
B04@15'	15'	03/10/2017	<0.002	<0.002	<0.002	<0.002	25.3	<0.200	<100	8.08	0.877
B05@15'	15'	03/10/2017	<0.002	<0.002	<0.002	<0.002	27.3	<0.200	<100	8.72	0.940
B06@15'	15'	03/10/2017	<0.002	<0.002	<0.002	<0.002	<25.0	<0.200	<100	8.19	0.891
E01@11'	11'	03/10/2017	<0.050	<0.050	<0.050	<0.050	57.6	21.7	<100	8.74	1.12
E02@11'	11'	03/10/2017	<0.050	<0.050	<0.050	<0.050	<25.0	<5.00	<100	7.78	1.95
E03@11'	11'	03/10/2017	<0.002	<0.002	<0.002	<0.002	<25.0	0.547	<100	8.35	1.45
S01@11'	11'	03/10/2017	<0.002	<0.002	<0.002	<0.002	<25.0	<0.200	<100	7.57	1.82
S02@11'	11'	03/10/2017	1.42	<0.050	14.4	141	908	1890	<100	8.97	0.356
S03@11'	11'	03/10/2017	<0.050	<0.050	0.355	<0.050	353	577	<100	8.67	0.371
W01@11'	11'	03/13/2017	<0.050	<0.050	0.123	0.537	93.8	60.3	<100	8.57	0.440
W02@9'	9'	03/13/2017	0.051	<0.050	2.25	4.19	367	317	<100	8.87	0.405
W03@9'	9'	03/13/2017	0.198	0.070	4.38	12.1	220	878	<100	8.83	0.306
B07@13'	13'	03/14/2017	0.002	<0.002	0.036	0.004	31.6	2.23	<100	8.97	0.422
N01@11'	11'	03/14/2017	2.12	2.02	10.4	104	1150	1870	<100	9.14 †	0.521
B08@13'	13'	03/16/2017	<0.050	<0.050	<0.050	<0.050	82.0	36.3	<100	9.43 †	0.607
B09@15'	15'	03/16/2017	<0.050	<0.050	<0.050	<0.050	<25.0	<5.00	<100	9.34 †	0.255
E04@11'	11'	03/16/2017	<0.002	<0.002	<0.002	<0.002	<25.0	0.231	<100	7.96	1.92
N03@11'	11'	03/16/2017	0.190	<0.050	0.121	0.262	33.6	31.3	<100	9.39 †	0.513
B10@15'	15'	03/17/2017	<0.050	<0.050	<0.050	<0.050	<25.0	<5.00	<100	8.57	0.257



TABLE 1 (Continued)
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KERR-MCGEE OIL & GAS ONSHORE LP

Soil Sample ID	Depth (bgs)	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	DRO (mg/kg)	GRO (mg/kg)	ORO (mg/kg)	pH (su)	Specific Conductance (mmhos/cm)
N02@11'	11'	03/17/2017	<0.050	<0.050	<0.050	<0.050	<25.0	<5.00	<100	8.64	0.612
B11@11'	11'	03/20/2017	<0.050	<0.050	<0.050	<0.050	<25.0	<5.00	<100	8.61	0.512
E05@11'	11'	03/20/2017	<0.050	<0.050	<0.050	<0.050	28.6	42.0	<100	8.79	0.633
N04@11'	11'	03/20/2017	<0.050	<0.050	<0.050	<0.050	<25.0	11.7	<100	9.02 †	0.542
S04@9'	9'	03/20/2017	<0.050	<0.050	<0.050	<0.050	<25.0	<5.00	<100	8.24	0.569
W04@9'	9'	03/20/2017	<0.050	<0.050	<0.050	<0.050	<25.0	5.06	<100	8.38	0.487
B12@11'	11'	03/22/2017	<0.050	<0.050	<0.050	<0.050	<25.0	15.8	<100	8.46	0.377
B13@11'	11'	03/22/2017	<0.050	<0.050	<0.050	<0.050	<25.0	<5.00	<100	8.30	0.573
N05@9'	9'	03/22/2017	<0.050	<0.050	<0.050	<0.050	<25.0	<5.00	<100	7.59	1.10
N06@11'	11'	03/22/2017	<0.050	<0.050	<0.050	<0.050	<25.0	<5.00	<100	8.91	0.422
W05@9'	9'	03/22/2017	<0.050	<0.050	0.176	0.164	105	54.4	<100	8.50	0.654
W06@9'	9'	03/22/2017	<0.050	<0.050	<0.050	<0.050	<25.0	13.3	<100	8.39	0.451
B14@10'	10'	03/31/2017	<0.050	<0.050	<0.050	<0.050	<25.0	<5.00	<100	8.54	0.790
E06@9'	9'	03/31/2017	<0.002	<0.002	<0.002	<0.002	<25.0	<0.200	<100	7.87	1.18
S05@9'	9'	03/31/2017	<0.050	<0.050	<0.050	<0.050	<25.0	<5.00	<100	8.14	1.15
S06@9'	9'	03/31/2017	<0.002	<0.002	<0.002	<0.002	<25.0	<0.200	<100	8.19	0.989
W07@9'	9'	03/31/2017	<0.050	<0.050	<0.050	<0.050	170	142	<100	8.46	1.00



TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL RESULTS
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Soil Sample ID	Depth (bgs)	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	DRO (mg/kg)	GRO (mg/kg)	ORO (mg/kg)	pH (su)	Specific Conductance (mmhos/cm)
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COGCC Allowable Levels			0.17	85	100	175	500*	500*	500*	6-9	4
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Notes: bgs - below ground surface
COGCC - Colorado Oil and Gas Conservation Commission
DRO - diesel range organics
GRO - gasoline range organics
mg/kg - milligrams per kilogram
mmhos/cm - millimhos per centimeter
NA - not analyzed/not available

ORO - oil range organics
su - standard units
TPH - total petroleum hydrocarbons
† - Sample was collected below the designated root zone (>3' bgs)
* - TPH standard applies to combined DRO-GRO-ORO
< - less than laboratory reporting limit
Bold indicates result exceeds allowable level.



March 10, 2017

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Lee USX VV 15-3

Project Number - 014217033

Attached are your analytical results for KMG - Lee USX VV 15-3 received by Origins Laboratory, Inc. March 09, 2017. This project is associated with Origins project number Y703140-01.

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

Brian Sulzberger
Project Number: 014217033
Project: KMG - Lee USX VV 15-3

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@13'	Y703140-01	Soil	March 9, 2017 11:35	03/09/2017 16:23
B02@15'	Y703140-02	Soil	March 9, 2017 11:40	03/09/2017 16:23
B03@13'	Y703140-03	Soil	March 9, 2017 11:45	03/09/2017 16:23

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

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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y703140

Client: LTE

Client Project ID: KMG Lee USX VV 15-3

Checklist Completed by: DMW

Shipped Via: 13D
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 3-5-13 1642

Airbill #: NA

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

Cooler Number/Temperature: 1 / 22 °C 1 / _____ °C 1 / _____ °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 ⁽¹⁾ ?	<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	pH yes
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) / (pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

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

Reviewed by (Project Manager) DMW Date/Time Reviewed 3-5-13 1643

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

B01@13'
3/9/2017 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703140-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7C0903	03/09/2017	03/09/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 86.2 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7C0902	03/09/2017	03/10/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "
Surrogate: Toluene-d8 99.5 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.96		pH Units	1	B7C0907	03/09/2017	03/09/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.675		mmhos/cm	"	B7C0908	"	"	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

B02@15'
3/9/2017 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703140-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7C0903	03/09/2017	03/09/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 82.0 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7C0902	03/09/2017	03/10/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 100 % 70-130 " " "
Surrogate: Toluene-d8 103 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 99.6 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.97		pH Units	1	B7C0907	03/09/2017	03/09/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.591		mmhos/cm	"	B7C0908	"	"	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

B03@13'
3/9/2017 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703140-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7C0903	03/09/2017	03/09/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 91.5 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7C0902	03/09/2017	03/10/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "
Surrogate: Toluene-d8 100 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 99.8 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.51		pH Units	1	B7C0907	03/09/2017	03/09/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.677		mmhos/cm	"	B7C0908	"	"	
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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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
Batch B7C0902 - EPA 5030 (soil)										
Blank (B7C0902-BLK1)										
					Prepared: 03/09/2017 Analyzed: 03/09/2017					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	70-130			

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 Arvada CO 80003

Brian Sulzberger
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 Project: KMG - Lee USX VV 15-3

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
Batch B7C0902 - EPA 5030 (soil)										
Blank (B7C0902-BLK2)										
					Prepared: 03/09/2017 Analyzed: 03/09/2017					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.5	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7C0902 - EPA 5030 (soil)

LCS (B7C0902-BS1)

Prepared: 03/09/2017 Analyzed: 03/09/2017

Benzene	0.109	0.002	mg/kg	0.100		109	77.1-124			
Toluene	0.107	0.002	"	0.100		107	74.5-128			
Ethylbenzene	0.104	0.002	"	0.100		104	66.4-127			
m,p-Xylene	0.213	0.004	"	0.200		107	76.6-124			
o-Xylene	0.102	0.002	"	0.100		102	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.9	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	70-130			

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 Arvada CO 80003

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C0902 - EPA 5030 (soil)

LCS (B7C0902-BS2)

Prepared: 03/09/2017 Analyzed: 03/09/2017

Benzene	0.108	0.002	mg/kg	0.100		108	77.1-124			
Toluene	0.107	0.002	"	0.100		107	74.5-128			
Ethylbenzene	0.102	0.002	"	0.100		102	66.4-127			
m,p-Xylene	0.208	0.004	"	0.200		104	76.6-124			
o-Xylene	0.100	0.002	"	0.100		99.8	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	56		ug/kg	62.5		89.1	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.2	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7C0902 - EPA 5030 (soil)

Matrix Spike (B7C0902-MS1)	Source: Y703092-01			Prepared: 03/09/2017 Analyzed: 03/09/2017						
Benzene	0.111	0.002	mg/kg	0.100	0.015	95.8	71.8-126			
Toluene	0.096	0.002	"	0.100	0.001	95.0	65.1-130			
Ethylbenzene	0.108	0.002	"	0.100	0.020	88.2	62.2-130			
m,p-Xylene	0.232	0.004	"	0.200	0.048	91.6	46.5-137			
o-Xylene	0.101	0.002	"	0.100	0.002	98.4	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C0902 - EPA 5030 (soil)

Matrix Spike (B7C0902-MS2)	Source: Y703092-02			Prepared: 03/09/2017 Analyzed: 03/09/2017						
Benzene	0.155	0.002	mg/kg	0.100	0.055	99.9	71.8-126			
Toluene	0.086	0.002	"	0.100	0.002	84.1	65.1-130			
Ethylbenzene	0.473	0.002	"	0.100	0.458	14.5	62.2-130			QM-07
m,p-Xylene	0.875	0.004	"	0.200	0.749	62.9	46.5-137			
o-Xylene	0.110	0.002	"	0.100	0.009	100	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	58		ug/kg	62.5		93.1	70-130			
Surrogate: Toluene-d8	54		"	62.5		86.7	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C0902 - EPA 5030 (soil)

Matrix Spike Dup (B7C0902-MSD1)	Source: Y703092-01			Prepared: 03/09/2017 Analyzed: 03/09/2017						
Benzene	0.125	0.002	mg/kg	0.100	0.015	109	71.8-126	11.4	11.3	QM-07
Toluene	0.106	0.002	"	0.100	0.001	105	65.1-130	9.46	15.4	
Ethylbenzene	0.119	0.002	"	0.100	0.020	99.6	62.2-130	10.1	19.6	
m,p-Xylene	0.260	0.004	"	0.200	0.048	106	46.5-137	11.3	19.2	
o-Xylene	0.107	0.002	"	0.100	0.002	104	54.2-134	5.79	17.9	
Surrogate: 1,2-Dichloroethane-d4	55		ug/kg	62.5		88.2	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.4	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C0902 - EPA 5030 (soil)

Matrix Spike Dup (B7C0902-MSD2)	Source: Y703092-02			Prepared: 03/09/2017 Analyzed: 03/09/2017						
Benzene	0.162	0.002	mg/kg	0.100	0.055	107	71.8-126	4.49	11.3	
Toluene	0.087	0.002	"	0.100	0.002	85.5	65.1-130	1.64	15.4	
Ethylbenzene	0.485	0.002	"	0.100	0.458	26.6	62.2-130	2.53	19.6	QM-07
m,p-Xylene	0.891	0.004	"	0.200	0.749	71.0	46.5-137	1.85	19.2	
o-Xylene	0.108	0.002	"	0.100	0.009	98.8	54.2-134	1.29	17.9	
Surrogate: 1,2-Dichloroethane-d4	77		ug/kg	62.5		122	70-130			
Surrogate: Toluene-d8	55		"	62.5		87.4	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C0903 - EPA 3550B

Blank (B7C0903-BLK1)

Prepared: 03/09/2017 Analyzed: 03/09/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	44		"	50.0		88.9	59-131			

Blank (B7C0903-BLK2)

Prepared: 03/09/2017 Analyzed: 03/09/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	46		"	50.0		91.9	59-131			

LCS (B7C0903-BS1)

Prepared: 03/09/2017 Analyzed: 03/09/2017

Diesel (C10-C28)	903	50.0	mg/kg	1000		90.3	64-121			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	58-124			
Surrogate: o-Terphenyl	43		"	50.0		86.7	59-131			

LCS (B7C0903-BS2)

Prepared: 03/09/2017 Analyzed: 03/09/2017

Diesel (C10-C28)	893	50.0	mg/kg	1000		89.3	64-121			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	58-124			
Surrogate: o-Terphenyl	46		"	50.0		92.6	59-131			

Matrix Spike (B7C0903-MS1)

Source: Y703096-01

Prepared: 03/09/2017 Analyzed: 03/09/2017

Diesel (C10-C28)	6330	50.0	mg/kg	1000	10400	NR	53-125			QM-07
Residual Range Organics (C28-C40)	2320	200	"	1000	2540	NR	47-133			QM-07

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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
Batch B7C0903 - EPA 3550B										
Matrix Spike (B7C0903-MS1)		Source: Y703096-01			Prepared: 03/09/2017 Analyzed: 03/09/2017					
Surrogate: o-Terphenyl	42		mg/kg	50.0		83.8	59-131			
Matrix Spike (B7C0903-MS2)		Source: Y703097-01			Prepared: 03/09/2017 Analyzed: 03/09/2017					
Diesel (C10-C28)	912	50.0	mg/kg	1000	22.6	88.9	53-125			
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	47-133			
Surrogate: o-Terphenyl	46		"	50.0		92.0	59-131			
Matrix Spike Dup (B7C0903-MSD1)		Source: Y703096-01			Prepared: 03/09/2017 Analyzed: 03/09/2017					
Diesel (C10-C28)	6960	50.0	mg/kg	1000	10400	NR	53-125	NR	20	QM-07
Residual Range Organics (C28-C40)	2420	200	"	1000	2540	NR	47-133	NR	20	QM-07
Surrogate: o-Terphenyl	48		"	50.0		96.1	59-131			
Matrix Spike Dup (B7C0903-MSD2)		Source: Y703097-01			Prepared: 03/09/2017 Analyzed: 03/09/2017					
Diesel (C10-C28)	903	50.0	mg/kg	1000	22.6	88.0	53-125	1.01	20	
Residual Range Organics (C28-C40)	1020	200	"	1000	ND	102	47-133	1.40	20	
Surrogate: o-Terphenyl	46		"	50.0		92.6	59-131			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7C0907 - NO PREP										
Duplicate (B7C0907-DUP1)		Source: Y703140-01			Prepared: 03/09/2017 Analyzed: 03/09/2017					
pH	9.03		pH Units		8.96			0.778	25	
Batch B7C0908 - NO PREP										
Blank (B7C0908-BLK1)		Prepared: 03/09/2017 Analyzed: 03/09/2017								
Specific Conductance (EC)	0.00310		mmhos/cm							
Duplicate (B7C0908-DUP1)		Source: Y703140-01			Prepared: 03/09/2017 Analyzed: 03/09/2017					
Specific Conductance (EC)	0.699		mmhos/cm		0.675			3.49	25	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014217033
Project: KMG - Lee USX VV 15-3

Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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



March 13, 2017

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Lee USX VV 15-3

Project Number - 014217033

Attached are your analytical results for KMG - Lee USX VV 15-3 received by Origins Laboratory, Inc. March 10, 2017. This project is associated with Origins project number Y703162-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



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

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

Brian Sulzberger
Project Number: 014217033
Project: KMG - Lee USX VV 15-3

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B04@15'	Y703162-01	Soil	March 10, 2017 14:40	03/10/2017 17:23
B05@15'	Y703162-02	Soil	March 10, 2017 14:45	03/10/2017 17:23
B06@15'	Y703162-03	Soil	March 10, 2017 14:50	03/10/2017 17:23
E01@11'	Y703162-04	Soil	March 10, 2017 14:55	03/10/2017 17:23
E02@11'	Y703162-05	Soil	March 10, 2017 15:00	03/10/2017 17:23
E03@11'	Y703162-06	Soil	March 10, 2017 15:05	03/10/2017 17:23
S01@11'	Y703162-07	Soil	March 10, 2017 15:25	03/10/2017 17:23
S02@11'	Y703162-08	Soil	March 10, 2017 15:30	03/10/2017 17:23
S03@11'	Y703162-09	Soil	March 10, 2017 15:35	03/10/2017 17:23

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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1703162 Client: LEE
 Client Project ID: KMG-LEE USX VV 15-3
 Checklist Completed by: Don Lee Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Date/time completed: 3-10-12 1724 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / 3.9 °C _____ °C _____ °C (Describe) _____ °C
 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 ⁽¹⁾ ?	<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>N/A</u>	<u>pH</u>
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

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

Reviewed by (Project Manager) Don Lee Date/Time Reviewed 3-10-12 1725

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

B04@15'
3/10/2017 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703162-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	25.3	25.0	mg/kg	1	B7C1004	03/10/2017	03/10/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 93.6 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7C1003	03/10/2017	03/10/2017	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 114 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 99.3 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.08		pH Units	1	B7C1005	03/10/2017	03/10/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.877		mmhos/cm	"	B7C1006	03/10/2017	03/10/2017	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

B05@15'
3/10/2017 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703162-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	27.3	25.0	mg/kg	1	B7C1004	03/10/2017	03/10/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 77.6 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7C1003	03/10/2017	03/10/2017	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 115 % 70-130 " " "
 Surrogate: Toluene-d8 99.1 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.4 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.72		pH Units	1	B7C1005	03/10/2017	03/10/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.940		mmhos/cm	"	B7C1006	03/10/2017	03/10/2017	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

B06@15'
3/10/2017 2:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703162-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7C1004	03/10/2017	03/10/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 85.2 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7C1003	03/10/2017	03/10/2017	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 115 % 70-130 " " "
Surrogate: Toluene-d8 99.3 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 99.4 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.19		pH Units	1	B7C1005	03/10/2017	03/10/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.891		mmhos/cm	"	B7C1006	03/10/2017	03/10/2017	
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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

E01@11'
3/10/2017 2:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703162-04 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	57.6	25.0	mg/kg	1	B7C1004	03/10/2017	03/10/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 89.0 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	21.7	5.00	mg/kg	25	B7C1003	03/10/2017	03/10/2017	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 100 % 70-130 " " "
 Surrogate: Toluene-d8 102 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.74		pH Units	1	B7C1005	03/10/2017	03/10/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.12		mmhos/cm	"	B7C1006	03/10/2017	03/10/2017	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

E02@11'
3/10/2017 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703162-05 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7C1004	03/10/2017	03/13/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7C1003	03/10/2017	03/10/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.9 % 70-130 " " "
Surrogate: Toluene-d8 105 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.78		pH Units	1	B7C1005	03/10/2017	03/10/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.95		mmhos/cm	"	B7C1006	03/10/2017	03/10/2017	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

E03@11'
3/10/2017 3:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703162-06 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7C1004	03/10/2017	03/13/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 98.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	0.547	0.200	mg/kg	1	B7C1003	03/10/2017	03/10/2017	
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.35		pH Units	1	B7C1005	03/10/2017	03/10/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.45		mmhos/cm	"	B7C1006	03/10/2017	03/10/2017	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

S01@11'
3/10/2017 3:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703162-07 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7C1004	03/10/2017	03/13/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 101 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7C1003	03/10/2017	03/11/2017	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "
Surrogate: Toluene-d8 101 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 97.2 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.57		pH Units	1	B7C1005	03/10/2017	03/10/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.82		mmhos/cm	"	B7C1006	03/10/2017	03/10/2017	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

S02@11'
3/10/2017 3:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703162-08 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	908	25.0	mg/kg	1	B7C1004	03/10/2017	03/13/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	1890	50.0	mg/kg	250	B7C1003	03/10/2017	03/11/2017	
Benzene	1.42	0.050	"	25	"	"	03/11/2017	
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	14.4	0.498	"	250	"	"	03/11/2017	
Xylenes, total	141	0.498	"	"	"	"	03/11/2017	

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " 03/11/2017
 Surrogate: Toluene-d8 87.2 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 131 % 70-130 " " " S-04

pH in Soil by EPA 9045D

pH	8.97		pH Units	1	B7C1005	03/10/2017	03/10/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.356		mmhos/cm	"	B7C1006	03/10/2017	03/10/2017	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

S03@11'
3/10/2017 3:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703162-09 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	353	25.0	mg/kg	1	B7C1004	03/10/2017	03/13/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 92.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	577	50.0	mg/kg	250	B7C1003	03/10/2017	03/11/2017	
Benzene	ND	0.050	"	25	"	"	03/11/2017	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	0.355	0.050	"	"	"	"	"	
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "
 Surrogate: Toluene-d8 100 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 118 % 70-130 " " 03/11/2017

pH in Soil by EPA 9045D

pH	8.67		pH Units	1	B7C1005	03/10/2017	03/10/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.371		mmhos/cm	"	B7C1006	03/10/2017	03/10/2017	
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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C1003 - EPA 5030 (soil)

Blank (B7C1003-BLK1)

Prepared: 03/10/2017 Analyzed: 03/10/2017

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	68		ug/kg	62.5		109	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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
Batch B7C1003 - EPA 5030 (soil)										
Blank (B7C1003-BLK2)										
					Prepared: 03/10/2017 Analyzed: 03/10/2017					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		108	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C1003 - EPA 5030 (soil)

LCS (B7C1003-BS1)

Prepared: 03/10/2017 Analyzed: 03/10/2017

Benzene	0.104	0.002	mg/kg	0.100		104	77.1-124			
Toluene	0.102	0.002	"	0.100		102	74.5-128			
Ethylbenzene	0.102	0.002	"	0.100		102	66.4-127			
m,p-Xylene	0.208	0.004	"	0.200		104	76.6-124			
o-Xylene	0.105	0.002	"	0.100		105	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.1	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C1003 - EPA 5030 (soil)

LCS (B7C1003-BS2)

Prepared: 03/10/2017 Analyzed: 03/10/2017

Benzene	0.114	0.002	mg/kg	0.100		114	77.1-124			
Toluene	0.114	0.002	"	0.100		114	74.5-128			
Ethylbenzene	0.116	0.002	"	0.100		116	66.4-127			
m,p-Xylene	0.236	0.004	"	0.200		118	76.6-124			
o-Xylene	0.118	0.002	"	0.100		118	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C1003 - EPA 5030 (soil)

Matrix Spike (B7C1003-MS1)	Source: Y703156-01			Prepared: 03/10/2017 Analyzed: 03/10/2017						
Benzene	0.100	0.002	mg/kg	0.100	ND	100	71.8-126			
Toluene	0.097	0.002	"	0.100	ND	96.5	65.1-130			
Ethylbenzene	0.096	0.002	"	0.100	ND	96.3	62.2-130			
m,p-Xylene	0.195	0.004	"	0.200	ND	97.7	46.5-137			
o-Xylene	0.100	0.002	"	0.100	ND	100	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.3	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C1003 - EPA 5030 (soil)

Matrix Spike (B7C1003-MS2)	Source: Y703156-02			Prepared: 03/10/2017 Analyzed: 03/10/2017						
Benzene	0.083	0.002	mg/kg	0.100	ND	83.0	71.8-126			
Toluene	0.082	0.002	"	0.100	0.0007	82.0	65.1-130			
Ethylbenzene	0.081	0.002	"	0.100	0.002	78.8	62.2-130			
m,p-Xylene	0.168	0.004	"	0.200	0.002	83.2	46.5-137			
o-Xylene	0.086	0.002	"	0.100	ND	86.2	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	68		ug/kg	62.5		109	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C1003 - EPA 5030 (soil)

Matrix Spike Dup (B7C1003-MSD1)	Source: Y703156-01			Prepared: 03/10/2017 Analyzed: 03/10/2017						
Benzene	0.092	0.002	mg/kg	0.100	ND	92.3	71.8-126	8.37	11.3	
Toluene	0.088	0.002	"	0.100	ND	88.4	65.1-130	8.85	15.4	
Ethylbenzene	0.087	0.002	"	0.100	ND	87.1	62.2-130	10.0	19.6	
m,p-Xylene	0.180	0.004	"	0.200	ND	89.8	46.5-137	8.50	19.2	
o-Xylene	0.093	0.002	"	0.100	ND	92.9	54.2-134	7.78	17.9	
Surrogate: 1,2-Dichloroethane-d4	70		ug/kg	62.5		113	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.4	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C1003 - EPA 5030 (soil)

Matrix Spike Dup (B7C1003-MSD2)	Source: Y703156-02			Prepared: 03/10/2017 Analyzed: 03/10/2017						
Benzene	0.095	0.002	mg/kg	0.100	ND	95.1	71.8-126	13.6	11.3	QR-02
Toluene	0.094	0.002	"	0.100	0.0007	93.8	65.1-130	13.5	15.4	
Ethylbenzene	0.092	0.002	"	0.100	0.002	89.7	62.2-130	12.7	19.6	
m,p-Xylene	0.191	0.004	"	0.200	0.002	94.6	46.5-137	12.8	19.2	
o-Xylene	0.097	0.002	"	0.100	ND	97.4	54.2-134	12.1	17.9	
Surrogate: 1,2-Dichloroethane-d4	68		ug/kg	62.5		108	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.4	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C1004 - EPA 3580

Blank (B7C1004-BLK1)

Prepared: 03/10/2017 Analyzed: 03/10/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	51		"	50.0		102	59-131			

Blank (B7C1004-BLK2)

Prepared: 03/10/2017 Analyzed: 03/10/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	48		"	50.0		96.5	59-131			

LCS (B7C1004-BS1)

Prepared: 03/10/2017 Analyzed: 03/10/2017

Diesel (C10-C28)	875	50.0	mg/kg	1000		87.5	64-121			
Residual Range Organics (C28-C40)	1020	200	"	1000		102	58-124			
Surrogate: o-Terphenyl	48		"	50.0		95.5	59-131			

LCS (B7C1004-BS2)

Prepared: 03/10/2017 Analyzed: 03/10/2017

Diesel (C10-C28)	865	50.0	mg/kg	1000		86.5	64-121			
Residual Range Organics (C28-C40)	1000	200	"	1000		100	58-124			
Surrogate: o-Terphenyl	46		"	50.0		91.4	59-131			

Matrix Spike (B7C1004-MS1)

Source: Y703156-01

Prepared: 03/10/2017 Analyzed: 03/10/2017

Diesel (C10-C28)	899	50.0	mg/kg	1000	24.7	87.4	53-125			
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	47-133			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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
Batch B7C1004 - EPA 3580										
Matrix Spike (B7C1004-MS1)			Source: Y703156-01			Prepared: 03/10/2017 Analyzed: 03/10/2017				
Surrogate: o-Terphenyl	45		mg/kg	50.0		90.6	59-131			
Matrix Spike (B7C1004-MS2)			Source: Y703156-02			Prepared: 03/10/2017 Analyzed: 03/10/2017				
Diesel (C10-C28)	886	50.0	mg/kg	1000	31.1	85.5	53-125			
Residual Range Organics (C28-C40)	1020	200	"	1000	ND	102	47-133			
Surrogate: o-Terphenyl	46		"	50.0		92.6	59-131			
Matrix Spike Dup (B7C1004-MSD1)			Source: Y703156-01			Prepared: 03/10/2017 Analyzed: 03/10/2017				
Diesel (C10-C28)	891	50.0	mg/kg	1000	24.7	86.7	53-125	0.808	20	
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	47-133	3.10	20	
Surrogate: o-Terphenyl	47		"	50.0		94.2	59-131			
Matrix Spike Dup (B7C1004-MSD2)			Source: Y703156-02			Prepared: 03/10/2017 Analyzed: 03/10/2017				
Diesel (C10-C28)	891	50.0	mg/kg	1000	31.1	86.0	53-125	0.641	20	
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	47-133	1.71	20	
Surrogate: o-Terphenyl	47		"	50.0		94.6	59-131			

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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7C1005 - NO PREP										
Duplicate (B7C1005-DUP1)		Source: Y703098-02			Prepared: 03/10/2017 Analyzed: 03/13/2017					
pH	6.86		pH Units		6.84			0.292	25	
Batch B7C1006 - NO PREP										
Blank (B7C1006-BLK1)		Prepared: 03/10/2017 Analyzed: 03/13/2017								
Specific Conductance (EC)	0.00360		mmhos/cm							
Duplicate (B7C1006-DUP1)		Source: Y703098-02			Prepared: 03/10/2017 Analyzed: 03/13/2017					
Specific Conductance (EC)	1.00		mmhos/cm		0.875			13.5	25	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014217033
Project: KMG - Lee USX VV 15-3

Notes and Definitions

U Sample is Non-Detect.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President



March 14, 2017

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Lee USX VV 15-3

Project Number - 014217033

Attached are your analytical results for KMG - Lee USX VV 15-3 received by Origins Laboratory, Inc. March 13, 2017. This project is associated with Origins project number Y703189-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



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

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

Brian Sulzberger
Project Number: 014217033
Project: KMG - Lee USX VV 15-3

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W01@11'	Y703189-01	Soil	March 13, 2017 15:35	03/13/2017 17:24
W02@9'	Y703189-02	Soil	March 13, 2017 15:40	03/13/2017 17:24
W03@9'	Y703189-03	Soil	March 13, 2017 15:45	03/13/2017 17:24

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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page 1 of 1

Y703169



Client: LTE
 Address: 4600 West 60th Ave
 Telephone Number: (303)433-9788
 Email Address: ARC Team

Project Manager: Justin Solomon
 Project Name: Lee USX VV 15-3
 Project Number: 014217033
 Samples Collected By: Kris Sieple
DO # 89246238 Attn: Paul Schwartz

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 ₃	Other	Groundwater	Soil	Air/Summit	Other	TPH		SP
1001 @ 11'	3/19/09	15:55	2	X					V			X	X	
1002 @ 9'	↓	15:40	2	X					X			X	X	
1003 @ 1'	↓	15:45	2	X					Y			X	X	

Relinquished By: [Signature] Date: 3/10/09 Time: 16:47
 Turnaround Time: Same Day 24 Hr 48 Hr 72 Hr Standard 1-2

Relinquished By: [Signature] Date: 3-13-09 Time: 16:44
 Received By: [Signature] Date: 3-13-09 Time: 17:24
 Date Results Needed: 3/17/09
 0.1°C

Origins Laboratory, Inc.

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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 170312A Client: LTE
 Client Project ID: KMG - Lee USX VV 15-3
 Checklist Completed by: Don Lee Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Date/time completed: 3-13-12 1732 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / 0.1 °C _____ °C _____ °C (Describe) _____ °C
 Thermometer ID: 1603

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>			<u>pH</u>
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

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

Don Lee
 Reviewed by (Project Manager)

3-13-12 1732
 Date/Time Reviewed

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

W01@11'
3/13/2017 3:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703189-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	93.8	25.0	mg/kg	1	B7C1303	03/13/2017	03/13/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 75.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	60.3	5.00	mg/kg	25	B7C1302	03/13/2017	03/13/2017	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	0.123	0.050	"	"	"	"	"	
Xylenes, total	0.537	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 95.7 % 70-130 " " "
 Surrogate: Toluene-d8 94.3 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 112 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.57		pH Units	1	B7C1304	03/13/2017	03/13/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.440		mmhos/cm	"	B7C1305	03/13/2017	03/13/2017	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

W02@9'
3/13/2017 3:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703189-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	367	25.0	mg/kg	1	B7C1303	03/13/2017	03/13/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	317	5.00	mg/kg	25	B7C1302	03/13/2017	03/13/2017	
Benzene	0.051	0.050	"	"	"	"	"	
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	2.25	0.050	"	"	"	"	"	
Xylenes, total	4.19	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 95.6 % 70-130 " " "
Surrogate: Toluene-d8 68.7 % 70-130 " " " S-04
Surrogate: 4-Bromofluorobenzene 201 % 70-130 " " " S-04

pH in Soil by EPA 9045D

pH	8.87		pH Units	1	B7C1304	03/13/2017	03/13/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.405		mmhos/cm	"	B7C1305	03/13/2017	03/13/2017	
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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

W03@9'
3/13/2017 3:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703189-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	220	25.0	mg/kg	1	B7C1303	03/13/2017	03/13/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 83.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	878	50.0	mg/kg	250	B7C1302	03/13/2017	03/14/2017	
Benzene	0.198	0.050	"	25	"	"	03/13/2017	
Toluene	0.070	0.050	"	"	"	"	"	
Ethylbenzene	4.38	0.050	"	"	"	"	"	
Xylenes, total	12.1	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 92.6 % 70-130 " " "
 Surrogate: Toluene-d8 94.6 % 70-130 " " 03/14/2017
 Surrogate: 4-Bromofluorobenzene 118 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.83		pH Units	1	B7C1304	03/13/2017	03/13/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.306		mmhos/cm	"	B7C1305	03/13/2017	03/13/2017	
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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C1302 - EPA 5030 (soil)

Blank (B7C1302-BLK1)

Prepared: 03/13/2017 Analyzed: 03/13/2017

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		107	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.7	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C1302 - EPA 5030 (soil)

Blank (B7C1302-BLK2)

Prepared: 03/13/2017 Analyzed: 03/13/2017

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		95.6	70-130			
Surrogate: Toluene-d8	61		"	62.5		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.7	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C1302 - EPA 5030 (soil)

LCS (B7C1302-BS1)

Prepared: 03/13/2017 Analyzed: 03/13/2017

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	0.105	0.002	"	0.100		105	66.4-127			
m,p-Xylene	0.211	0.004	"	0.200		105	76.6-124			
o-Xylene	0.105	0.002	"	0.100		105	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	56		ug/kg	62.5		89.2	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.1	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C1302 - EPA 5030 (soil)

LCS (B7C1302-BS2)

Prepared: 03/13/2017 Analyzed: 03/13/2017

Benzene	0.117	0.002	mg/kg	0.100		117	77.1-124			
Toluene	0.114	0.002	"	0.100		114	74.5-128			
Ethylbenzene	0.113	0.002	"	0.100		113	66.4-127			
m,p-Xylene	0.233	0.004	"	0.200		116	76.6-124			
o-Xylene	0.115	0.002	"	0.100		115	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	68		ug/kg	62.5		109	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.9	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C1302 - EPA 5030 (soil)

Matrix Spike (B7C1302-MS1)	Source: Y703160-01			Prepared: 03/13/2017 Analyzed: 03/13/2017						
Benzene	0.116	0.002	mg/kg	0.100	ND	116	71.8-126			
Toluene	0.114	0.002	"	0.100	0.0009	113	65.1-130			
Ethylbenzene	0.116	0.002	"	0.100	0.0007	116	62.2-130			
m,p-Xylene	0.240	0.004	"	0.200	ND	120	46.5-137			
o-Xylene	0.117	0.002	"	0.100	0.0004	116	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	50		ug/kg	62.5		80.4	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C1302 - EPA 5030 (soil)

Matrix Spike (B7C1302-MS2)	Source: Y703160-02			Prepared: 03/13/2017 Analyzed: 03/13/2017						
Benzene	0.114	0.002	mg/kg	0.100	ND	114	71.8-126			
Toluene	0.109	0.002	"	0.100	ND	109	65.1-130			
Ethylbenzene	0.109	0.002	"	0.100	ND	109	62.2-130			
m,p-Xylene	0.223	0.004	"	0.200	ND	112	46.5-137			
o-Xylene	0.112	0.002	"	0.100	ND	112	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	53		ug/kg	62.5		84.4	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		102	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C1302 - EPA 5030 (soil)

Matrix Spike Dup (B7C1302-MSD1)	Source: Y703160-01			Prepared: 03/13/2017 Analyzed: 03/13/2017						
Benzene	0.108	0.002	mg/kg	0.100	ND	108	71.8-126	7.68	11.3	
Toluene	0.104	0.002	"	0.100	0.0009	103	65.1-130	9.41	15.4	
Ethylbenzene	0.102	0.002	"	0.100	0.0007	101	62.2-130	13.0	19.6	
m,p-Xylene	0.209	0.004	"	0.200	ND	104	46.5-137	13.9	19.2	
o-Xylene	0.105	0.002	"	0.100	0.0004	104	54.2-134	11.0	17.9	
Surrogate: 1,2-Dichloroethane-d4	53		ug/kg	62.5		84.8	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C1302 - EPA 5030 (soil)

Matrix Spike Dup (B7C1302-MSD2)	Source: Y703160-02			Prepared: 03/13/2017 Analyzed: 03/13/2017						
Benzene	0.096	0.002	mg/kg	0.100	ND	96.3	71.8-126	17.0	11.3	QR-02
Toluene	0.089	0.002	"	0.100	ND	89.4	65.1-130	19.8	15.4	QR-02
Ethylbenzene	0.085	0.002	"	0.100	ND	84.6	62.2-130	25.3	19.6	QR-02
m,p-Xylene	0.169	0.004	"	0.200	ND	84.5	46.5-137	27.7	19.2	QR-02
o-Xylene	0.086	0.002	"	0.100	ND	86.4	54.2-134	25.5	17.9	QR-02
Surrogate: 1,2-Dichloroethane-d4	54		ug/kg	62.5		86.9	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.4	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C1303 - EPA 3580

Blank (B7C1303-BLK1)

Prepared: 03/13/2017 Analyzed: 03/13/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	56		"	50.0		112	59-131			

Blank (B7C1303-BLK2)

Prepared: 03/13/2017 Analyzed: 03/13/2017

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

LCS (B7C1303-BS1)

Prepared: 03/13/2017 Analyzed: 03/13/2017

Diesel (C10-C28)	940	50.0	mg/kg	1000		94.0	64-121			
Residual Range Organics (C28-C40)	1040	200	"	1000		104	58-124			
Surrogate: o-Terphenyl	51		"	50.0		102	59-131			

LCS (B7C1303-BS2)

Prepared: 03/13/2017 Analyzed: 03/13/2017

Diesel (C10-C28)	910	50.0	mg/kg	1000		91.0	64-121			
Residual Range Organics (C28-C40)	1030	200	"	1000		103	58-124			
Surrogate: o-Terphenyl	48		"	50.0		95.1	59-131			

Matrix Spike (B7C1303-MS1)

Source: Y703160-01

Prepared: 03/13/2017 Analyzed: 03/13/2017

Diesel (C10-C28)	876	50.0	mg/kg	1000	16.2	86.0	53-125			
Residual Range Organics (C28-C40)	923	200	"	1000	ND	92.3	47-133			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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
Batch B7C1303 - EPA 3580										
Matrix Spike (B7C1303-MS1)		Source: Y703160-01			Prepared: 03/13/2017 Analyzed: 03/13/2017					
Surrogate: o-Terphenyl	42		mg/kg	50.0		83.7	59-131			
Matrix Spike (B7C1303-MS2)		Source: Y703160-02			Prepared: 03/13/2017 Analyzed: 03/13/2017					
Diesel (C10-C28)	890	50.0	mg/kg	1000	18.9	87.1	53-125			
Residual Range Organics (C28-C40)	997	200	"	1000	ND	99.7	47-133			
Surrogate: o-Terphenyl	48		"	50.0		95.8	59-131			
Matrix Spike Dup (B7C1303-MSD1)		Source: Y703160-01			Prepared: 03/13/2017 Analyzed: 03/13/2017					
Diesel (C10-C28)	922	50.0	mg/kg	1000	16.2	90.5	53-125	5.16	20	
Residual Range Organics (C28-C40)	1020	200	"	1000	ND	102	47-133	9.51	20	
Surrogate: o-Terphenyl	47		"	50.0		94.5	59-131			
Matrix Spike Dup (B7C1303-MSD2)		Source: Y703160-02			Prepared: 03/13/2017 Analyzed: 03/13/2017					
Diesel (C10-C28)	913	50.0	mg/kg	1000	18.9	89.5	53-125	2.62	20	
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	47-133	4.17	20	
Surrogate: o-Terphenyl	46		"	50.0		91.9	59-131			

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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7C1304 - NO PREP										
Duplicate (B7C1304-DUP1)		Source: Y703185-01			Prepared: 03/13/2017 Analyzed: 03/13/2017					
pH	7.99		pH Units		8.31			3.93	25	
Batch B7C1305 - NO PREP										
Blank (B7C1305-BLK1)		Prepared: 03/13/2017 Analyzed: 03/13/2017								
Specific Conductance (EC)	0.00340		mmhos/cm							
Duplicate (B7C1305-DUP1)		Source: Y703185-01			Prepared: 03/13/2017 Analyzed: 03/13/2017					
Specific Conductance (EC)	0.123		mmhos/cm		0.124			0.969	25	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014217033
Project: KMG - Lee USX VV 15-3

Notes and Definitions

U Sample is Non-Detect.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

March 15, 2017

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Lee USX VV 15-3

Project Number - 014217033

Attached are your analytical results for KMG - Lee USX VV 15-3 received by Origins Laboratory, Inc. March 14, 2017. This project is associated with Origins project number Y703197-01.

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

Brian Sulzberger
Project Number: 014217033
Project: KMG - Lee USX VV 15-3

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B07@13'	Y703197-01	Soil	March 14, 2017 15:55	03/14/2017 17:29
N01@11'	Y703197-02	Soil	March 14, 2017 16:00	03/14/2017 17:29

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

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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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page () of ()



1703197

Client: LTE
 Address: 4600 West 60th Ave
 Telephone Number: (303)433-9788
 Email Address: APC Team

Project Manager: Justin Solomon
 Project Name: Lee USX VV 15-3
 Project Number: 014217033
 Samples Collected By: Kris Shupina

LO # 89246238 Att: Paul Schwartz

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summ #	Other	GC/MS		IR
B07C13	3/14/17	1555	2	X				X				X	X	Hold SAC
N01C11	↓	1600	2	X				X				X	X	↓

Relinquished By: [Signature] Date: 5/14/17 Time: 1657

Relinquished By: [Signature] Date: 3/14/17 Time: 1729

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

Date Results Needed: 3/17/2017

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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1703197

Client: LTE

Client Project ID: KMG - Lee USX VV 15-3

Checklist Completed by: Dan Lee

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

Date/time completed: 3-14-17 1130

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 3.6 °C °C °C (Describe)

Thermometer ID: 7003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>			pH
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with Na ₂ SO ₂ +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 3-14-17 033

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

B07@13'
3/14/2017 3:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703197-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	31.6	25.0	mg/kg	1	B7C1403	03/14/2017	03/14/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 92.5 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	2.23	0.200	mg/kg	1	B7C1402	03/14/2017	03/14/2017	
Benzene	0.002	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	0.036	0.002	"	"	"	"	"	
Xylenes, total	0.004	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 118 % 70-130 " " "
 Surrogate: Toluene-d8 93.2 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.97		pH Units	1	B7C1405	03/14/2017	03/14/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.422		mmhos/cm	"	B7C1406	03/14/2017	03/14/2017	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

N01@11'
3/14/2017 4:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703197-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	1150	25.0	mg/kg	1	B7C1403	03/14/2017	03/14/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	1870	50.0	mg/kg	250	B7C1402	03/14/2017	03/15/2017	
Benzene	2.12	0.050	"	25	"	"	03/14/2017	
Toluene	2.02	0.050	"	"	"	"	"	
Ethylbenzene	10.4	0.498	"	250	"	"	03/15/2017	
Xylenes, total	104	0.498	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 98.5 % 70-130 " " 03/14/2017

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

Surrogate: 4-Bromofluorobenzene 109 % 70-130 " " 03/15/2017

pH in Soil by EPA 9045D

pH	9.14		pH Units	1	B7C1405	03/14/2017	03/14/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.521		mmhos/cm	"	B7C1406	03/14/2017	03/14/2017	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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
Batch B7C1402 - EPA 5030 (soil)										
Blank (B7C1402-BLK1)										
					Prepared: 03/14/2017 Analyzed: 03/14/2017					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.8	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C1402 - EPA 5030 (soil)

Blank (B7C1402-BLK2)

Prepared: 03/14/2017 Analyzed: 03/14/2017

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.0	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C1402 - EPA 5030 (soil)

LCS (B7C1402-BS1)

Prepared: 03/14/2017 Analyzed: 03/14/2017

Benzene	0.105	0.002	mg/kg	0.100		105	77.1-124			
Toluene	0.102	0.002	"	0.100		102	74.5-128			
Ethylbenzene	0.102	0.002	"	0.100		102	66.4-127			
m,p-Xylene	0.201	0.004	"	0.200		101	76.6-124			
o-Xylene	0.102	0.002	"	0.100		102	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		95.4	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.8	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C1402 - EPA 5030 (soil)

LCS (B7C1402-BS2)

Prepared: 03/14/2017 Analyzed: 03/14/2017

Benzene	0.110	0.002	mg/kg	0.100		110	77.1-124			
Toluene	0.105	0.002	"	0.100		105	74.5-128			
Ethylbenzene	0.104	0.002	"	0.100		104	66.4-127			
m,p-Xylene	0.210	0.004	"	0.200		105	76.6-124			
o-Xylene	0.106	0.002	"	0.100		106	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.4	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C1402 - EPA 5030 (soil)

Matrix Spike (B7C1402-MS1)	Source: Y703188-04			Prepared: 03/14/2017 Analyzed: 03/14/2017						
Benzene	0.111	0.002	mg/kg	0.100	ND	111	71.8-126			
Toluene	0.113	0.002	"	0.100	ND	113	65.1-130			
Ethylbenzene	0.110	0.002	"	0.100	ND	110	62.2-130			
m,p-Xylene	0.220	0.004	"	0.200	ND	110	46.5-137			
o-Xylene	0.108	0.002	"	0.100	ND	108	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.2	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.7	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C1402 - EPA 5030 (soil)

Matrix Spike (B7C1402-MS2)	Source: Y703188-05			Prepared: 03/14/2017 Analyzed: 03/14/2017						
Benzene	0.107	0.002	mg/kg	0.100	ND	107	71.8-126			
Toluene	0.104	0.002	"	0.100	ND	104	65.1-130			
Ethylbenzene	0.103	0.002	"	0.100	ND	103	62.2-130			
m,p-Xylene	0.204	0.004	"	0.200	ND	102	46.5-137			
o-Xylene	0.101	0.002	"	0.100	ND	101	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C1402 - EPA 5030 (soil)

Matrix Spike Dup (B7C1402-MSD1)	Source: Y703188-04			Prepared: 03/14/2017 Analyzed: 03/14/2017						
Benzene	0.107	0.002	mg/kg	0.100	ND	107	71.8-126	4.05	11.3	
Toluene	0.104	0.002	"	0.100	ND	104	65.1-130	7.73	15.4	
Ethylbenzene	0.101	0.002	"	0.100	ND	101	62.2-130	8.77	19.6	
m,p-Xylene	0.200	0.004	"	0.200	ND	100	46.5-137	9.51	19.2	
o-Xylene	0.100	0.002	"	0.100	ND	100	54.2-134	7.46	17.9	
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.9	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C1402 - EPA 5030 (soil)

Matrix Spike Dup (B7C1402-MSD2)	Source: Y703188-05			Prepared: 03/14/2017 Analyzed: 03/14/2017						
Benzene	0.110	0.002	mg/kg	0.100	ND	110	71.8-126	2.33	11.3	
Toluene	0.107	0.002	"	0.100	ND	107	65.1-130	2.67	15.4	
Ethylbenzene	0.105	0.002	"	0.100	ND	105	62.2-130	1.62	19.6	
m,p-Xylene	0.208	0.004	"	0.200	ND	104	46.5-137	2.33	19.2	
o-Xylene	0.104	0.002	"	0.100	ND	104	54.2-134	2.73	17.9	
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C1403 - EPA 3550B

Blank (B7C1403-BLK1)

Prepared: 03/14/2017 Analyzed: 03/14/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	44		"	50.0		88.6	59-131			

Blank (B7C1403-BLK2)

Prepared: 03/14/2017 Analyzed: 03/14/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	45		"	50.0		89.8	59-131			

LCS (B7C1403-BS1)

Prepared: 03/14/2017 Analyzed: 03/14/2017

Diesel (C10-C28)	861	50.0	mg/kg	1000		86.1	64-121			
Residual Range Organics (C28-C40)	1020	200	"	1000		102	58-124			
Surrogate: o-Terphenyl	44		"	50.0		87.6	59-131			

LCS (B7C1403-BS2)

Prepared: 03/14/2017 Analyzed: 03/14/2017

Diesel (C10-C28)	842	50.0	mg/kg	1000		84.2	64-121			
Residual Range Organics (C28-C40)	1030	200	"	1000		103	58-124			
Surrogate: o-Terphenyl	43		"	50.0		85.8	59-131			

Matrix Spike (B7C1403-MS1)

Source: Y703166-01

Prepared: 03/14/2017 Analyzed: 03/14/2017

Diesel (C10-C28)	2950	50.0	mg/kg	1000	1310	164	53-125			QM-07
Residual Range Organics (C28-C40)	2510	200	"	1000	365	214	47-133			QM-07

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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
Batch B7C1403 - EPA 3550B										
Matrix Spike (B7C1403-MS1)			Source: Y703166-01		Prepared: 03/14/2017 Analyzed: 03/14/2017					
Surrogate: o-Terphenyl	51		mg/kg	50.0		102	59-131			
Matrix Spike (B7C1403-MS2)			Source: Y703168-04		Prepared: 03/14/2017 Analyzed: 03/14/2017					
Diesel (C10-C28)	3380	50.0	mg/kg	1000	3150	23.3	53-125			QM-07
Residual Range Organics (C28-C40)	2160	200	"	1000	1030	113	47-133			
Surrogate: o-Terphenyl	56		"	50.0		112	59-131			
Matrix Spike Dup (B7C1403-MSD1)			Source: Y703166-01		Prepared: 03/14/2017 Analyzed: 03/14/2017					
Diesel (C10-C28)	2790	50.0	mg/kg	1000	1310	148	53-125	10.2	20	QM-07
Residual Range Organics (C28-C40)	2280	200	"	1000	365	192	47-133	11.1	20	QM-07
Surrogate: o-Terphenyl	49		"	50.0		98.3	59-131			
Matrix Spike Dup (B7C1403-MSD2)			Source: Y703168-04		Prepared: 03/14/2017 Analyzed: 03/14/2017					
Diesel (C10-C28)	3230	50.0	mg/kg	1000	3150	8.22	53-125	95.8	20	QM-07, QR-03
Residual Range Organics (C28-C40)	1910	200	"	1000	1030	88.4	47-133	24.5	20	QR-03
Surrogate: o-Terphenyl	54		"	50.0		108	59-131			

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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7C1405 - NO PREP										
Duplicate (B7C1405-DUP1)		Source: Y703136-01			Prepared: 03/14/2017 Analyzed: 03/14/2017					
pH	8.40		pH Units		8.27			1.56	25	
Batch B7C1406 - NO PREP										
Blank (B7C1406-BLK1)		Prepared: 03/14/2017 Analyzed: 03/14/2017								
Specific Conductance (EC)	0.00350		mmhos/cm							
Duplicate (B7C1406-DUP1)		Source: Y703136-01			Prepared: 03/14/2017 Analyzed: 03/14/2017					
Specific Conductance (EC)	0.313		mmhos/cm		0.331			5.59	25	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014217033
Project: KMG - Lee USX VV 15-3

Notes and Definitions

U Sample is Non-Detect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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.

March 17, 2017

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Lee USX VV 15-3

Project Number - 014217033

Attached are your analytical results for KMG - Lee USX VV 15-3 received by Origins Laboratory, Inc. March 16, 2017. This project is associated with Origins project number Y703240-01.

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

Brian Sulzberger
Project Number: 014217033
Project: KMG - Lee USX VV 15-3

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
E04@11'	Y703240-01	Soil	March 16, 2017 15:05	03/16/2017 17:20
B08@13'	Y703240-02	Soil	March 16, 2017 15:10	03/16/2017 17:20
B09@15'	Y703240-03	Soil	March 16, 2017 15:15	03/16/2017 17:20
N03@11'	Y703240-05	Soil	March 16, 2017 15:25	03/16/2017 17:20

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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1703240

Client: LTE

Client Project ID: KMG - Lee USX VV 15-3

Checklist Completed by: DL

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

Date/time completed: 3-16-17 1739

Airbill #: NA

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

Cooler Number/Temperature: 1 / 2.3 °C °C °C °C (Describe)

Thermometer ID: 1003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Yes PH
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water - is there headspace (> 1/4 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 ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

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

Reviewed by (Project Manager) DL

Date/Time Reviewed 3-16-17 1739

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

E04@11'
3/16/2017 3:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703240-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7C1602	03/16/2017	03/16/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 80.6 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	0.231	0.200	mg/kg	1	B7C1601	03/16/2017	03/16/2017	
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "
Surrogate: Toluene-d8 93.9 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 99.2 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.96		pH Units	1	B7C1606	03/16/2017	03/16/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.92		mmhos/cm	"	B7C1607	03/16/2017	"	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

B08@13'
3/16/2017 3:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703240-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	82.0	25.0	mg/kg	1	B7C1602	03/16/2017	03/16/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 83.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	36.3	5.00	mg/kg	25	B7C1601	03/16/2017	03/16/2017	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

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

pH in Soil by EPA 9045D

pH	9.43		pH Units	1	B7C1606	03/16/2017	03/16/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.607		mmhos/cm	"	B7C1607	03/16/2017	"	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

B09@15'
3/16/2017 3:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703240-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7C1602	03/16/2017	03/16/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 83.6 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7C1601	03/16/2017	03/16/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 97.0 % 70-130 " " "
Surrogate: Toluene-d8 96.8 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

pH in Soil by EPA 9045D

pH	9.34		pH Units	1	B7C1606	03/16/2017	03/16/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.255		mmhos/cm	"	B7C1607	03/16/2017	"	
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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

N03@11'
3/16/2017 3:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703240-05 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	33.6	25.0	mg/kg	1	B7C1602	03/16/2017	03/16/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 83.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	31.3	5.00	mg/kg	25	B7C1601	03/16/2017	03/16/2017	
Benzene	0.190	0.050	"	"	"	"	"	
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	0.121	0.050	"	"	"	"	"	
Xylenes, total	0.262	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 94.3 % 70-130 " " "
 Surrogate: Toluene-d8 96.5 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

pH in Soil by EPA 9045D

pH	9.39		pH Units	1	B7C1606	03/16/2017	03/16/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.513		mmhos/cm	"	B7C1607	03/16/2017	"	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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
Batch B7C1601 - EPA 5030 (soil)										
Blank (B7C1601-BLK1)										
Prepared: 03/16/2017 Analyzed: 03/16/2017										
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.9	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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
Batch B7C1601 - EPA 5030 (soil)										
Blank (B7C1601-BLK2)										
					Prepared: 03/16/2017 Analyzed: 03/16/2017					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	69		ug/kg	62.5		110	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.2	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.2	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C1601 - EPA 5030 (soil)

LCS (B7C1601-BS1)

Prepared: 03/16/2017 Analyzed: 03/16/2017

Benzene	0.109	0.002	mg/kg	0.100		109	77.1-124			
Toluene	0.105	0.002	"	0.100		105	74.5-128			
Ethylbenzene	0.103	0.002	"	0.100		103	66.4-127			
m,p-Xylene	0.207	0.004	"	0.200		104	76.6-124			
o-Xylene	0.103	0.002	"	0.100		103	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.4	70-130			
Surrogate: Toluene-d8	61		"	62.5		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.0	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C1601 - EPA 5030 (soil)

LCS (B7C1601-BS2)

Prepared: 03/16/2017 Analyzed: 03/16/2017

Benzene	0.111	0.002	mg/kg	0.100		111	77.1-124			
Toluene	0.106	0.002	"	0.100		106	74.5-128			
Ethylbenzene	0.103	0.002	"	0.100		103	66.4-127			
m,p-Xylene	0.209	0.004	"	0.200		105	76.6-124			
o-Xylene	0.104	0.002	"	0.100		104	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	74		ug/kg	62.5		119	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.8	70-130			

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LT Environmental, Inc.
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Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C1601 - EPA 5030 (soil)

Matrix Spike (B7C1601-MS1)	Source: Y703206-02			Prepared: 03/16/2017 Analyzed: 03/16/2017						
Benzene	0.108	0.002	mg/kg	0.100	ND	108	71.8-126			
Toluene	0.106	0.002	"	0.100	ND	106	65.1-130			
Ethylbenzene	0.104	0.002	"	0.100	ND	104	62.2-130			
m,p-Xylene	0.208	0.004	"	0.200	ND	104	46.5-137			
o-Xylene	0.103	0.002	"	0.100	ND	103	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.6	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.0	70-130			

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 Arvada CO 80003

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C1601 - EPA 5030 (soil)

Matrix Spike Dup (B7C1601-MSD1)	Source: Y703206-02			Prepared: 03/16/2017 Analyzed: 03/16/2017						
Benzene	0.108	0.002	mg/kg	0.100	ND	108	71.8-126	0.408	11.3	
Toluene	0.102	0.002	"	0.100	ND	102	65.1-130	3.90	15.4	
Ethylbenzene	0.102	0.002	"	0.100	ND	102	62.2-130	2.66	19.6	
m,p-Xylene	0.202	0.004	"	0.200	ND	101	46.5-137	2.91	19.2	
o-Xylene	0.100	0.002	"	0.100	ND	100	54.2-134	2.48	17.9	
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.4	70-130			

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 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C1602 - EPA 3580

Blank (B7C1602-BLK1)

Prepared: 03/16/2017 Analyzed: 03/16/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	43		"	50.0		86.3	59-131			

LCS (B7C1602-BS1)

Prepared: 03/16/2017 Analyzed: 03/16/2017

Diesel (C10-C28)	862	50.0	mg/kg	1000		86.2	64-121			
Residual Range Organics (C28-C40)	894	200	"	1000		89.4	58-124			
Surrogate: o-Terphenyl	42		"	50.0		84.7	59-131			

Matrix Spike (B7C1602-MS1)

Source: Y703224-01

Prepared: 03/16/2017 Analyzed: 03/16/2017

Diesel (C10-C28)	2060	50.0	mg/kg	1000	904	115	53-125			
Residual Range Organics (C28-C40)	816	200	"	1000	ND	81.6	47-133			
Surrogate: o-Terphenyl	51		"	50.0		101	59-131			

Matrix Spike Dup (B7C1602-MSD1)

Source: Y703224-01

Prepared: 03/16/2017 Analyzed: 03/16/2017

Diesel (C10-C28)	2060	50.0	mg/kg	1000	904	116	53-125	0.114	20	
Residual Range Organics (C28-C40)	826	200	"	1000	ND	82.6	47-133	1.19	20	
Surrogate: o-Terphenyl	52		"	50.0		103	59-131			

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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7C1606 - NO PREP										
Duplicate (B7C1606-DUP1)		Source: Y703238-01			Prepared: 03/16/2017 Analyzed: 03/16/2017					
pH	8.67		pH Units		8.68			0.115	25	
Batch B7C1607 - NO PREP										
Blank (B7C1607-BLK1)		Prepared: 03/16/2017 Analyzed: 03/16/2017								
Specific Conductance (EC)	0.00350		mmhos/cm							
Duplicate (B7C1607-DUP1)		Source: Y703238-01			Prepared: 03/16/2017 Analyzed: 03/16/2017					
Specific Conductance (EC)	0.0309		mmhos/cm		0.0254			19.5	25	

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

Brian Sulzberger
Project Number: 014217033
Project: KMG - Lee USX VV 15-3

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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

March 20, 2017

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Lee USX VV 15-3

Project Number - 014217033

Attached are your analytical results for KMG - Lee USX VV 15-3 received by Origins Laboratory, Inc. March 17, 2017. This project is associated with Origins project number Y703262-01.

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

Brian Sulzberger
Project Number: 014217033
Project: KMG - Lee USX VV 15-3

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B10@15'	Y703262-01	Soil	March 17, 2017 15:35	03/17/2017 17:32
N02@11'	Y703262-02	Soil	March 17, 2017 15:40	03/17/2017 17:32

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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

Sample Receipt Checklist

Origins Work Order: 723262 Client: LT E
 Client Project ID: KMG - Lee USX VV 15-3
 Checklist Completed by: Don Lee Shipped Via: 1457
 Date/time completed: 3-17-12 1202 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / 5.1 °C 1 °C 1 °C 1 °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 ⁽¹⁾ ?	<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>			<u>pH</u>
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> 1/4 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 ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

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

Reviewed by (Project Manager) Don Lee Date/Time Reviewed 3-17-12 1203

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

B10@15'
3/17/2017 3:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703262-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7C1702	03/17/2017	03/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 73.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7C1701	03/17/2017	03/17/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 96.7 % 70-130 " " "
Surrogate: Toluene-d8 102 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 96.8 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.57		pH Units	1	B7C1703	03/17/2017	03/17/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.257		mmhos/cm	"	B7C1704	03/17/2017	03/17/2017	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

N02@11'
3/17/2017 3:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703262-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7C1702	03/17/2017	03/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 75.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7C1701	03/17/2017	03/17/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.5 % 70-130 " " "
 Surrogate: Toluene-d8 99.4 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.64		pH Units	1	B7C1703	03/17/2017	03/17/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.612		mmhos/cm	"	B7C1704	03/17/2017	03/17/2017	
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LT Environmental, Inc.
 4600 West 60th Avenue
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Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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
Batch B7C1701 - EPA 5030 (soil)										
Blank (B7C1701-BLK1)										
					Prepared: 03/17/2017 Analyzed: 03/17/2017					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		98.5	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.7	70-130			

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 Arvada CO 80003

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C1701 - EPA 5030 (soil)

LCS (B7C1701-BS1)

Prepared: 03/17/2017 Analyzed: 03/17/2017

Benzene	0.116	0.002	mg/kg	0.100		116	77.1-124			
Toluene	0.110	0.002	"	0.100		110	74.5-128			
Ethylbenzene	0.110	0.002	"	0.100		110	66.4-127			
m,p-Xylene	0.222	0.004	"	0.200		111	76.6-124			
o-Xylene	0.108	0.002	"	0.100		108	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	69		ug/kg	62.5		110	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.8	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.5	70-130			

Origins Laboratory, Inc.



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 Project: KMG - Lee USX VV 15-3

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 B7C1701 - EPA 5030 (soil)

Matrix Spike (B7C1701-MS1)	Source: Y703250-01			Prepared: 03/17/2017 Analyzed: 03/17/2017						
Benzene	0.112	0.002	mg/kg	0.100	ND	112	71.8-126			
Toluene	0.107	0.002	"	0.100	ND	107	65.1-130			
Ethylbenzene	0.102	0.002	"	0.100	ND	102	62.2-130			
m,p-Xylene	0.205	0.004	"	0.200	ND	103	46.5-137			
o-Xylene	0.103	0.002	"	0.100	0.0003	103	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	52		ug/kg	62.5		83.6	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.5	70-130			

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Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C1701 - EPA 5030 (soil)

Matrix Spike Dup (B7C1701-MSD1)	Source: Y703250-01			Prepared: 03/17/2017 Analyzed: 03/17/2017						
Benzene	0.109	0.002	mg/kg	0.100	ND	109	71.8-126	2.21	11.3	
Toluene	0.105	0.002	"	0.100	ND	105	65.1-130	2.14	15.4	
Ethylbenzene	0.105	0.002	"	0.100	ND	105	62.2-130	2.88	19.6	
m,p-Xylene	0.211	0.004	"	0.200	ND	106	46.5-137	2.89	19.2	
o-Xylene	0.105	0.002	"	0.100	0.0003	105	54.2-134	2.00	17.9	
Surrogate: 1,2-Dichloroethane-d4	56		ug/kg	62.5		89.0	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C1702 - EPA 3580

Blank (B7C1702-BLK1)

Prepared: 03/17/2017 Analyzed: 03/17/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	46		"	50.0		92.0	59-131			

Blank (B7C1702-BLK2)

Prepared: 03/17/2017 Analyzed: 03/17/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	46		"	50.0		92.6	59-131			

Blank (B7C1702-BLK3)

Prepared: 03/17/2017 Analyzed: 03/17/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	54		"	50.0		107	59-131			

LCS (B7C1702-BS1)

Prepared: 03/17/2017 Analyzed: 03/17/2017

Diesel (C10-C28)	878	50.0	mg/kg	1000		87.8	64-121			
Residual Range Organics (C28-C40)	846	200	"	1000		84.6	58-124			
Surrogate: o-Terphenyl	42		"	50.0		84.9	59-131			

LCS (B7C1702-BS2)

Prepared: 03/17/2017 Analyzed: 03/17/2017

Diesel (C10-C28)	906	50.0	mg/kg	1000		90.6	64-121			
Residual Range Organics (C28-C40)	975	200	"	1000		97.5	58-124			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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
Batch B7C1702 - EPA 3580										
LCS (B7C1702-BS2)					Prepared: 03/17/2017 Analyzed: 03/17/2017					
Surrogate: o-Terphenyl	46		mg/kg	50.0		91.6	59-131			
LCS (B7C1702-BS3)					Prepared: 03/17/2017 Analyzed: 03/17/2017					
Diesel (C10-C28)	886	50.0	mg/kg	1000		88.6	64-121			
Residual Range Organics (C28-C40)	881	200	"	1000		88.1	58-124			
Surrogate: o-Terphenyl	43		"	50.0		85.8	59-131			
Matrix Spike (B7C1702-MS1)		Source: Y703243-01			Prepared: 03/17/2017 Analyzed: 03/17/2017					
Diesel (C10-C28)	4440	50.0	mg/kg	1000	3020	142	53-125			QM-4X
Residual Range Organics (C28-C40)	746	200	"	1000	ND	74.6	47-133			
Surrogate: o-Terphenyl	42		"	50.0		84.2	59-131			
Matrix Spike (B7C1702-MS2)		Source: Y703243-02			Prepared: 03/17/2017 Analyzed: 03/17/2017					
Diesel (C10-C28)	2280	50.0	mg/kg	1000	1420	85.5	53-125			
Residual Range Organics (C28-C40)	914	200	"	1000	ND	91.4	47-133			
Surrogate: o-Terphenyl	48		"	50.0		95.4	59-131			
Matrix Spike (B7C1702-MS3)		Source: Y703250-01			Prepared: 03/17/2017 Analyzed: 03/17/2017					
Diesel (C10-C28)	976	50.0	mg/kg	1000	84.1	89.2	53-125			
Residual Range Organics (C28-C40)	1170	200	"	1000	56.9	111	47-133			
Surrogate: o-Terphenyl	46		"	50.0		92.0	59-131			
Matrix Spike Dup (B7C1702-MSD1)		Source: Y703243-01			Prepared: 03/17/2017 Analyzed: 03/17/2017					
Diesel (C10-C28)	4550	50.0	mg/kg	1000	3020	153	53-125	7.74	20	QM-4X
Residual Range Organics (C28-C40)	899	200	"	1000	ND	89.9	47-133	18.6	20	
Surrogate: o-Terphenyl	48		"	50.0		96.5	59-131			
Matrix Spike Dup (B7C1702-MSD2)		Source: Y703243-02			Prepared: 03/17/2017 Analyzed: 03/17/2017					

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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
Batch B7C1702 - EPA 3580										
Matrix Spike Dup (B7C1702-MSD2)			Source: Y703243-02		Prepared: 03/17/2017 Analyzed: 03/17/2017					
Diesel (C10-C28)	2880	50.0	mg/kg	1000	1420	145	53-125	51.9	20	QM-02
Residual Range Organics (C28-C40)	890	200	"	1000	ND	89.0	47-133	2.66	20	
Surrogate: o-Terphenyl	47		"	50.0		94.1	59-131			
Matrix Spike Dup (B7C1702-MSD3)			Source: Y703250-01		Prepared: 03/17/2017 Analyzed: 03/17/2017					
Diesel (C10-C28)	973	50.0	mg/kg	1000	84.1	88.9	53-125	0.325	20	
Residual Range Organics (C28-C40)	1160	200	"	1000	56.9	110	47-133	0.762	20	
Surrogate: o-Terphenyl	50		"	50.0		100	59-131			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7C1703 - NO PREP										
Duplicate (B7C1703-DUP1)		Source: Y703250-01			Prepared: 03/17/2017 Analyzed: 03/17/2017					
pH	7.57		pH Units		7.54			0.397	25	
Duplicate (B7C1703-DUP2)		Source: Y703250-02			Prepared: 03/17/2017 Analyzed: 03/17/2017					
pH	7.09		pH Units		6.97			1.71	25	
Duplicate (B7C1703-DUP3)		Source: Y703250-03			Prepared: 03/17/2017 Analyzed: 03/17/2017					
pH	8.00		pH Units		7.93			0.879	25	
Duplicate (B7C1703-DUP4)		Source: Y703250-04			Prepared: 03/17/2017 Analyzed: 03/17/2017					
pH	7.88		pH Units		7.83			0.637	25	
Batch B7C1704 - NO PREP										
Blank (B7C1704-BLK1)		Prepared: 03/17/2017 Analyzed: 03/17/2017								
Specific Conductance (EC)	0.00340		mmhos/cm							
Blank (B7C1704-BLK2)		Prepared: 03/17/2017 Analyzed: 03/17/2017								
Specific Conductance (EC)	0.00340		mmhos/cm							
Blank (B7C1704-BLK3)		Prepared: 03/17/2017 Analyzed: 03/17/2017								
Specific Conductance (EC)	0.00340		mmhos/cm							
Blank (B7C1704-BLK4)		Prepared: 03/17/2017 Analyzed: 03/17/2017								
Specific Conductance (EC)	0.00340		mmhos/cm							
Duplicate (B7C1704-DUP1)		Source: Y703250-01			Prepared: 03/17/2017 Analyzed: 03/17/2017					
Specific Conductance (EC)	0.237		mmhos/cm		0.208			13.0	25	

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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7C1704 - NO PREP										
Duplicate (B7C1704-DUP2)		Source: Y703250-02			Prepared: 03/17/2017 Analyzed: 03/17/2017					
Specific Conductance (EC)	0.472		mmhos/cm		0.473			0.212	25	
Duplicate (B7C1704-DUP3)		Source: Y703250-03			Prepared: 03/17/2017 Analyzed: 03/17/2017					
Specific Conductance (EC)	0.130		mmhos/cm		0.136			4.20	25	
Duplicate (B7C1704-DUP4)		Source: Y703250-04			Prepared: 03/17/2017 Analyzed: 03/17/2017					
Specific Conductance (EC)	0.117		mmhos/cm		0.108			8.08	25	

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

Brian Sulzberger
Project Number: 014217033
Project: KMG - Lee USX VV 15-3

Notes and Definitions

U Sample is Non-Detect.

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.

QM-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

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.

March 21, 2017

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Lee USX VV 15-3

Project Number - 014217033

Attached are your analytical results for KMG - Lee USX VV 15-3 received by Origins Laboratory, Inc. March 20, 2017. This project is associated with Origins project number Y703277-01.

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

Brian Sulzberger
Project Number: 014217033
Project: KMG - Lee USX VV 15-3

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N04@11'	Y703277-01	Soil	March 20, 2017 15:00	03/20/2017 16:59
E05@11'	Y703277-02	Soil	March 20, 2017 15:05	03/20/2017 16:59
W04@9'	Y703277-03	Soil	March 20, 2017 15:10	03/20/2017 16:59
S04@9'	Y703277-04	Soil	March 20, 2017 15:15	03/20/2017 16:59
B11@11'	Y703277-05	Soil	March 20, 2017 15:20	03/20/2017 16:59

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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1703217 Client: LT
 Client Project ID: KMG - Lee USX VV 15-3
 Checklist Completed by: DL Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Date/time completed: 3-26-17 1704 Airbill #: NA
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 (Describe)
 Cooler Number/Temperature: 1/47 °C 1 °C 1 °C 1 °C
 Thermometer ID: T083

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

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 3/26/17 1704

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

N04@11'
3/20/2017 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703277-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7C2003	03/20/2017	03/20/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 94.6 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	11.7	5.00	mg/kg	25	B7C2002	03/20/2017	03/20/2017	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "
 Surrogate: Toluene-d8 98.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

pH in Soil by EPA 9045D

pH	9.02		pH Units	1	B7C2007	03/20/2017	03/20/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.542		mmhos/cm	"	B7C2008	03/20/2017	03/20/2017	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

E05@11'
3/20/2017 3:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703277-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	28.6	25.0	mg/kg	1	B7C2003	03/20/2017	03/20/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 93.0 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	42.0	5.00	mg/kg	25	B7C2002	03/20/2017	03/20/2017	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "
 Surrogate: Toluene-d8 99.3 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.79		pH Units	1	B7C2007	03/20/2017	03/20/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.633		mmhos/cm	"	B7C2008	03/20/2017	03/20/2017	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

W04@9'
3/20/2017 3:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703277-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7C2003	03/20/2017	03/20/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 79.9 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	5.06	5.00	mg/kg	25	B7C2002	03/20/2017	03/20/2017	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "
Surrogate: Toluene-d8 98.2 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.38		pH Units	1	B7C2007	03/20/2017	03/20/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.487		mmhos/cm	"	B7C2008	03/20/2017	03/20/2017	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

S04@9'
3/20/2017 3:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703277-04 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7C2003	03/20/2017	03/20/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 92.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7C2002	03/20/2017	03/20/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "
Surrogate: Toluene-d8 98.3 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.24		pH Units	1	B7C2007	03/20/2017	03/20/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.569		mmhos/cm	"	B7C2008	03/20/2017	03/20/2017	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

B11@11'
3/20/2017 3:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703277-05 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7C2003	03/20/2017	03/20/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 80.6 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7C2002	03/20/2017	03/20/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "
Surrogate: Toluene-d8 99.6 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.61		pH Units	1	B7C2007	03/20/2017	03/20/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.512		mmhos/cm	"	B7C2008	03/20/2017	03/20/2017	
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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C2002 - EPA 5030 (soil)

Blank (B7C2002-BLK1)

Prepared: 03/20/2017 Analyzed: 03/20/2017

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	73		ug/kg	62.5		117	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.5	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		96.9	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7C2002 - EPA 5030 (soil)										
Blank (B7C2002-BLK2)										
					Prepared: 03/20/2017 Analyzed: 03/20/2017					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7C2002 - EPA 5030 (soil)										
Blank (B7C2002-BLK3)										
					Prepared: 03/20/2017 Analyzed: 03/20/2017					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		108	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7C2002 - EPA 5030 (soil)

LCS (B7C2002-BS1)

Prepared: 03/20/2017 Analyzed: 03/20/2017

Benzene	0.101	0.002	mg/kg	0.100		101	77.1-124			
Toluene	0.094	0.002	"	0.100		94.0	74.5-128			
Ethylbenzene	0.093	0.002	"	0.100		92.5	66.4-127			
m,p-Xylene	0.188	0.004	"	0.200		93.9	76.6-124			
o-Xylene	0.094	0.002	"	0.100		94.4	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.0	70-130			
Surrogate: Toluene-d8	58		"	62.5		93.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.5	70-130			

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 Project: KMG - Lee USX VV 15-3

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 B7C2002 - EPA 5030 (soil)

LCS (B7C2002-BS2)

Prepared: 03/20/2017 Analyzed: 03/20/2017

Benzene	0.103	0.002	mg/kg	0.100		103	77.1-124			
Toluene	0.104	0.002	"	0.100		104	74.5-128			
Ethylbenzene	0.103	0.002	"	0.100		103	66.4-127			
m,p-Xylene	0.206	0.004	"	0.200		103	76.6-124			
o-Xylene	0.100	0.002	"	0.100		100	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		95.1	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7C2002 - EPA 5030 (soil)

LCS (B7C2002-BS3)

Prepared: 03/20/2017 Analyzed: 03/20/2017

Benzene	0.097	0.002	mg/kg	0.100		97.5	77.1-124			
Toluene	0.093	0.002	"	0.100		93.2	74.5-128			
Ethylbenzene	0.096	0.002	"	0.100		96.1	66.4-127			
m,p-Xylene	0.187	0.004	"	0.200		93.3	76.6-124			
o-Xylene	0.093	0.002	"	0.100		93.0	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7C2002 - EPA 5030 (soil)

Matrix Spike (B7C2002-MS1)	Source: Y703270-01			Prepared: 03/20/2017 Analyzed: 03/20/2017						
Benzene	0.104	0.002	mg/kg	0.100	ND	104	71.8-126			
Toluene	0.099	0.002	"	0.100	0.003	96.7	65.1-130			
Ethylbenzene	0.099	0.002	"	0.100	0.002	96.6	62.2-130			
m,p-Xylene	0.202	0.004	"	0.200	0.006	98.4	46.5-137			
o-Xylene	0.098	0.002	"	0.100	0.001	96.4	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.4	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.2	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7C2002 - EPA 5030 (soil)

Matrix Spike (B7C2002-MS2)	Source: Y703270-02			Prepared: 03/20/2017 Analyzed: 03/20/2017						
Benzene	0.103	0.002	mg/kg	0.100	0.0005	103	71.8-126			
Toluene	0.106	0.002	"	0.100	0.004	103	65.1-130			
Ethylbenzene	0.106	0.002	"	0.100	0.002	104	62.2-130			
m,p-Xylene	0.216	0.004	"	0.200	0.006	105	46.5-137			
o-Xylene	0.100	0.002	"	0.100	0.0005	99.8	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7C2002 - EPA 5030 (soil)

Matrix Spike (B7C2002-MS3)	Source: Y703275-04			Prepared: 03/20/2017 Analyzed: 03/20/2017						
Benzene	2.42	0.050	mg/kg	2.50	ND	96.8	71.8-126			
Toluene	2.53	0.050	"	2.50	ND	101	65.1-130			
Ethylbenzene	2.76	0.050	"	2.50	ND	111	62.2-130			
m,p-Xylene	6.50	0.100	"	5.00	ND	130	46.5-137			
o-Xylene	2.92	0.050	"	2.50	ND	117	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.7	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7C2002 - EPA 5030 (soil)

Matrix Spike Dup (B7C2002-MSD1)	Source: Y703270-01			Prepared: 03/20/2017 Analyzed: 03/20/2017						
Benzene	0.100	0.002	mg/kg	0.100	ND	100	71.8-126	3.50	11.3	
Toluene	0.095	0.002	"	0.100	0.003	92.4	65.1-130	4.40	15.4	
Ethylbenzene	0.094	0.002	"	0.100	0.002	92.1	62.2-130	4.63	19.6	
m,p-Xylene	0.191	0.004	"	0.200	0.006	92.7	46.5-137	5.77	19.2	
o-Xylene	0.092	0.002	"	0.100	0.001	91.0	54.2-134	5.67	17.9	
Surrogate: 1,2-Dichloroethane-d4	79		ug/kg	62.5		127	70-130			
Surrogate: Toluene-d8	58		"	62.5		93.2	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7C2002 - EPA 5030 (soil)

Matrix Spike Dup (B7C2002-MSD2)	Source: Y703270-02			Prepared: 03/20/2017 Analyzed: 03/20/2017						
Benzene	0.207	0.002	mg/kg	0.200	0.0005	104	71.8-126	66.9	11.3	QR-02
Toluene	0.212	0.002	"	0.200	0.004	104	65.1-130	66.5	15.4	QR-02
Ethylbenzene	0.211	0.002	"	0.200	0.002	105	62.2-130	66.4	19.6	QR-02
m,p-Xylene	0.418	0.004	"	0.400	0.006	103	46.5-137	63.8	19.2	QR-02
o-Xylene	0.199	0.002	"	0.200	0.0005	99.2	54.2-134	66.0	17.9	QR-02
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7C2002 - EPA 5030 (soil)

Matrix Spike Dup (B7C2002-MSD3)	Source: Y703275-04			Prepared: 03/20/2017 Analyzed: 03/20/2017						
Benzene	2.53	0.050	mg/kg	2.50	ND	101	71.8-126	4.25	11.3	
Toluene	2.72	0.050	"	2.50	ND	109	65.1-130	7.37	15.4	
Ethylbenzene	2.80	0.050	"	2.50	ND	112	62.2-130	1.44	19.6	
m,p-Xylene	6.66	0.100	"	5.00	ND	133	46.5-137	2.46	19.2	
o-Xylene	2.91	0.050	"	2.50	ND	116	54.2-134	0.395	17.9	
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		96.6	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.4	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Extractable Petroleum Hydrocarbons by 8015C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7C2003 - EPA 3580

Blank (B7C2003-BLK1)

Prepared: 03/20/2017 Analyzed: 03/20/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	45		"	50.0		90.5	59-131			

Blank (B7C2003-BLK2)

Prepared: 03/20/2017 Analyzed: 03/21/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	48		"	50.0		95.2	59-131			

Blank (B7C2003-BLK3)

Prepared: 03/20/2017 Analyzed: 03/20/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	45		"	50.0		90.4	59-131			

LCS (B7C2003-BS1)

Prepared: 03/20/2017 Analyzed: 03/20/2017

Diesel (C10-C28)	914	50.0	mg/kg	1000		91.4	64-121			
Residual Range Organics (C28-C40)	947	200	"	1000		94.7	58-124			
Surrogate: o-Terphenyl	43		"	50.0		87.0	59-131			

LCS (B7C2003-BS2)

Prepared: 03/20/2017 Analyzed: 03/21/2017

Diesel (C10-C28)	969	50.0	mg/kg	1000		96.9	64-121			
Residual Range Organics (C28-C40)	1020	200	"	1000		102	58-124			

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Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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
Batch B7C2003 - EPA 3580										
LCS (B7C2003-BS2)					Prepared: 03/20/2017 Analyzed: 03/21/2017					
Surrogate: o-Terphenyl	46		mg/kg	50.0		91.8	59-131			
LCS (B7C2003-BS3)					Prepared: 03/20/2017 Analyzed: 03/20/2017					
Diesel (C10-C28)	951	50.0	mg/kg	1000		95.1	64-121			
Residual Range Organics (C28-C40)	988	200	"	1000		98.8	58-124			
Surrogate: o-Terphenyl	47		"	50.0		93.4	59-131			
Matrix Spike (B7C2003-MS1)		Source: Y703270-01			Prepared: 03/20/2017 Analyzed: 03/20/2017					
Diesel (C10-C28)	959	50.0	mg/kg	1000	29.9	92.9	53-125			
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	47-133			
Surrogate: o-Terphenyl	47		"	50.0		93.7	59-131			
Matrix Spike (B7C2003-MS2)		Source: Y703270-02			Prepared: 03/20/2017 Analyzed: 03/21/2017					
Diesel (C10-C28)	949	50.0	mg/kg	1000	17.2	93.2	53-125			
Residual Range Organics (C28-C40)	999	200	"	1000	ND	99.9	47-133			
Surrogate: o-Terphenyl	48		"	50.0		96.0	59-131			
Matrix Spike (B7C2003-MS3)		Source: Y703275-04			Prepared: 03/20/2017 Analyzed: 03/20/2017					
Diesel (C10-C28)	813	50.0	mg/kg	1000	ND	81.3	53-125			
Residual Range Organics (C28-C40)	804	200	"	1000	ND	80.4	47-133			
Surrogate: o-Terphenyl	41		"	50.0		81.5	59-131			
Matrix Spike Dup (B7C2003-MSD1)		Source: Y703270-01			Prepared: 03/20/2017 Analyzed: 03/20/2017					
Diesel (C10-C28)	993	50.0	mg/kg	1000	29.9	96.3	53-125	3.55	20	
Residual Range Organics (C28-C40)	1060	200	"	1000	ND	106	47-133	5.17	20	
Surrogate: o-Terphenyl	46		"	50.0		93.0	59-131			
Matrix Spike Dup (B7C2003-MSD2)		Source: Y703270-02			Prepared: 03/20/2017 Analyzed: 03/21/2017					

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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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
Batch B7C2003 - EPA 3580										
Matrix Spike Dup (B7C2003-MSD2)			Source: Y703270-02		Prepared: 03/20/2017 Analyzed: 03/21/2017					
Diesel (C10-C28)	961	50.0	mg/kg	1000	17.2	94.3	53-125	1.23	20	
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	47-133	1.24	20	
Surrogate: o-Terphenyl	46		"	50.0		92.0	59-131			
Matrix Spike Dup (B7C2003-MSD3)			Source: Y703275-04		Prepared: 03/20/2017 Analyzed: 03/20/2017					
Diesel (C10-C28)	941	50.0	mg/kg	1000	ND	94.1	53-125	14.6	20	
Residual Range Organics (C28-C40)	961	200	"	1000	ND	96.1	47-133	17.8	20	
Surrogate: o-Terphenyl	45		"	50.0		89.4	59-131			

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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7C2007 - NO PREP										
Duplicate (B7C2007-DUP1)		Source: Y703275-01			Prepared: 03/20/2017 Analyzed: 03/20/2017					
pH	7.93		pH Units		7.95			0.252	25	
Batch B7C2008 - NO PREP										
Blank (B7C2008-BLK1)		Prepared: 03/20/2017 Analyzed: 03/20/2017								
Specific Conductance (EC)	0.00330		mmhos/cm							
Duplicate (B7C2008-DUP1)		Source: Y703275-01			Prepared: 03/20/2017 Analyzed: 03/20/2017					
Specific Conductance (EC)	0.144		mmhos/cm		0.137			4.69	25	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014217033
Project: KMG - Lee USX VV 15-3

Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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.

March 23, 2017

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Lee USX VV 15-3

Project Number - 014217033

Attached are your analytical results for KMG - Lee USX VV 15-3 received by Origins Laboratory, Inc. March 22, 2017. This project is associated with Origins project number Y703314-01.

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

Brian Sulzberger
Project Number: 014217033
Project: KMG - Lee USX VV 15-3

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W05@9'	Y703314-01	Soil	March 22, 2017 14:45	03/22/2017 16:50
W06@9'	Y703314-02	Soil	March 22, 2017 14:50	03/22/2017 16:50
B12@11'	Y703314-03	Soil	March 22, 2017 14:55	03/22/2017 16:50
B13@11'	Y703314-04	Soil	March 22, 2017 15:00	03/22/2017 16:50
N05@9'	Y703314-05	Soil	March 22, 2017 15:10	03/22/2017 16:50
N06@11'	Y703314-06	Soil	March 22, 2017 15:15	03/22/2017 16:50

Per the email from Kris on 03/23/17 sample ID N06@9' was changed to N06@11'.

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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y703314 Client: LTE
 Client Project ID: KMG - Lee USX VV 15-3
 Checklist Completed by: Dm Shipped Via: HT
 Date/time completed: 3.22.17 1709 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: NA
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____ (Describe)
 Cooler Number/Temperature: / / 0.9 °C / °C / °C / °C
 Thermometer ID: 7003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	/			pH
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	/		No. NO60R1 on COC NO60R11 on Label
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)		/		
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 3.22.17 1709

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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

W05@9'
3/22/2017 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703314-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	105	25.0	mg/kg	1	B7C2205	03/22/2017	03/22/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	54.4	5.00	mg/kg	25	B7C2201	03/22/2017	03/22/2017	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	0.176	0.050	"	"	"	"	"	
Xylenes, total	0.164	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 94.8 % 70-130 " " "
 Surrogate: Toluene-d8 98.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 114 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.50		pH Units	1	B7C2206	03/22/2017	03/22/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.654		mmhos/cm	"	B7C2207	"	03/22/2017	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

W06@9'
3/22/2017 2:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703314-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7C2205	03/22/2017	03/22/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 97.9 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	13.3	5.00	mg/kg	25	B7C2201	03/22/2017	03/22/2017	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 95.6 % 70-130 " " "
Surrogate: Toluene-d8 98.8 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 99.3 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.39		pH Units	1	B7C2206	03/22/2017	03/22/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.451		mmhos/cm	"	B7C2207	"	03/22/2017	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

B12@11'
3/22/2017 2:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703314-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7C2205	03/22/2017	03/22/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 97.2 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	15.8	5.00	mg/kg	25	B7C2201	03/22/2017	03/22/2017	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 96.4 % 70-130 " " "
Surrogate: Toluene-d8 98.7 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.46		pH Units	1	B7C2206	03/22/2017	03/22/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.377		mmhos/cm	"	B7C2207	"	03/22/2017	
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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

B13@11'
3/22/2017 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703314-04 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7C2205	03/22/2017	03/22/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 93.9 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7C2201	03/22/2017	03/22/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 96.7 % 70-130 " " "
Surrogate: Toluene-d8 99.6 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 99.2 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.30		pH Units	1	B7C2206	03/22/2017	03/22/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.573		mmhos/cm	"	B7C2207	"	03/22/2017	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

N05@9'
3/22/2017 3:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703314-05 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7C2205	03/22/2017	03/22/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 81.5 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7C2201	03/22/2017	03/22/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 96.4 % 70-130 " " "
Surrogate: Toluene-d8 100 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 98.1 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.59		pH Units	1	B7C2206	03/22/2017	03/22/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.10		mmhos/cm	"	B7C2207	"	03/22/2017	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

N06@11'
3/22/2017 3:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703314-06 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7C2205	03/22/2017	03/22/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7C2201	03/22/2017	03/22/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 94.5 % 70-130 " " "
Surrogate: Toluene-d8 98.4 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.91		pH Units	1	B7C2206	03/22/2017	03/22/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.422		mmhos/cm	"	B7C2207	"	03/22/2017	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C2201 - EPA 5030 (soil)

Blank (B7C2201-BLK1)

Prepared: 03/22/2017 Analyzed: 03/22/2017

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		107	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.9	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C2201 - EPA 5030 (soil)

LCS (B7C2201-BS1)

Prepared: 03/22/2017 Analyzed: 03/22/2017

Benzene	0.102	0.002	mg/kg	0.100		102	77.1-124			
Toluene	0.103	0.002	"	0.100		103	74.5-128			
Ethylbenzene	0.104	0.002	"	0.100		104	66.4-127			
m,p-Xylene	0.208	0.004	"	0.200		104	76.6-124			
o-Xylene	0.099	0.002	"	0.100		98.9	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.5	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C2201 - EPA 5030 (soil)

Matrix Spike (B7C2201-MS1)	Source: Y703295-01			Prepared: 03/22/2017 Analyzed: 03/22/2017						
Benzene	0.101	0.002	mg/kg	0.100	ND	101	71.8-126			
Toluene	0.100	0.002	"	0.100	ND	100	65.1-130			
Ethylbenzene	0.099	0.002	"	0.100	ND	98.7	62.2-130			
m,p-Xylene	0.196	0.004	"	0.200	ND	98.2	46.5-137			
o-Xylene	0.095	0.002	"	0.100	ND	95.4	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.1	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		96.8	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C2201 - EPA 5030 (soil)

Matrix Spike Dup (B7C2201-MSD1)	Source: Y703295-01			Prepared: 03/22/2017 Analyzed: 03/22/2017						
Benzene	0.084	0.002	mg/kg	0.100	ND	84.2	71.8-126	17.8	11.3	QR-02
Toluene	0.082	0.002	"	0.100	ND	82.3	65.1-130	19.9	15.4	QR-02
Ethylbenzene	0.079	0.002	"	0.100	ND	78.6	62.2-130	22.7	19.6	QR-02
m,p-Xylene	0.157	0.004	"	0.200	ND	78.7	46.5-137	22.1	19.2	QR-02
o-Xylene	0.076	0.002	"	0.100	ND	76.3	54.2-134	22.2	17.9	QR-02
Surrogate: 1,2-Dichloroethane-d4	73		ug/kg	62.5		116	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.2	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C2205 - EPA 3580

Blank (B7C2205-BLK1)

Prepared: 03/22/2017 Analyzed: 03/22/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	51		"	50.0		102	59-131			

LCS (B7C2205-BS1)

Prepared: 03/22/2017 Analyzed: 03/22/2017

Diesel (C10-C28)	1060	50.0	mg/kg	1000		106	64-121			
Residual Range Organics (C28-C40)	1080	200	"	1000		108	58-124			
Surrogate: o-Terphenyl	50		"	50.0		101	59-131			

Matrix Spike (B7C2205-MS1)

Source: Y703308-01

Prepared: 03/22/2017 Analyzed: 03/22/2017

Diesel (C10-C28)	907	50.0	mg/kg	1000	21.7	88.5	53-125			
Residual Range Organics (C28-C40)	861	200	"	1000	ND	86.1	47-133			
Surrogate: o-Terphenyl	42		"	50.0		83.4	59-131			

Matrix Spike Dup (B7C2205-MSD1)

Source: Y703308-01

Prepared: 03/22/2017 Analyzed: 03/22/2017

Diesel (C10-C28)	943	50.0	mg/kg	1000	21.7	92.1	53-125	3.97	20	
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	47-133	16.2	20	
Surrogate: o-Terphenyl	47		"	50.0		93.4	59-131			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7C2206 - NO PREP										
Duplicate (B7C2206-DUP1)		Source: Y703308-01			Prepared: 03/22/2017 Analyzed: 03/22/2017					
pH	7.78		pH Units		7.81			0.385	25	
Batch B7C2207 - NO PREP										
Blank (B7C2207-BLK1)		Prepared: 03/22/2017 Analyzed: 03/22/2017								
Specific Conductance (EC)	0.00270		mmhos/cm							
Duplicate (B7C2207-DUP1)		Source: Y703283-01			Prepared: 03/22/2017 Analyzed: 03/22/2017					
Specific Conductance (EC)	0.127		mmhos/cm		0.131			3.02	25	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014217033
Project: KMG - Lee USX VV 15-3

Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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



April 25, 2017

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Lee USX VV 15-3

Project Number - 014217033

Attached are your analytical results for KMG - Lee USX VV 15-3 received by Origins Laboratory, Inc. March 31, 2017. This project is associated with Origins project number Y703445-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



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

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

Brian Sulzberger
Project Number: 014217033
Project: KMG - Lee USX VV 15-3

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
E06@9'	Y703445-01	Soil	March 31, 2017 13:50	03/31/2017 15:46
S06@9'	Y703445-02	Soil	March 31, 2017 13:55	03/31/2017 15:46
B14@10'	Y703445-03	Soil	March 31, 2017 14:00	03/31/2017 15:46
S05@9'	Y703445-04	Soil	March 31, 2017 14:05	03/31/2017 15:46
W07@9'	Y703445-05	Soil	March 31, 2017 14:10	03/31/2017 15:46

Per the email from Mike on 04/25/17 the sample ID S04@9' was changed to S06@9'.

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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3



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1703415

page 1 of 1

Client: LT ENVIRONMENTAL

Project Manager: B. SULZBERGER

Address:

Project Name: LEE USX VV 15-3

Telephone Number:

Project Number: 014217033

Email Address:

Samples Collected By: P. Newman

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 ₃	Other	Groundwater	Soil	Air Summa #	Other	TPH	CO ₂ DOC	
EG609'	8/31/17	1350	2	X				X				X	X	1
80409'	8/31/17	1355	2	X				X				X	X	2
814010'	8/31/17	1400	2	X				X				X	X	3
80509'	8/31/17	1405	2	X				X				X	X	4
W0709'	8/31/17	1410	2	X				X				X	X	5
														6
														7
														8
														9
														10
Relinquished By: <u>[Signature]</u>	Date: 8/31/17	Time: 1546	Time: 1546	Received By: <u>[Signature]</u>	Date: 9-3-17	Time: 1546	Time: 1546	Received By: <u>[Signature]</u>	Date: 9-3-17	Time: 1546	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>			

Temp Received: 65° Date Results Needed

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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

Sample Receipt Checklist

Origins Work Order: Y103445 Client: LTE
 Client Project ID: KMG-Lee USX VV 15-3
 Checklist Completed by: Dan Lee Shipped Via: HD
 Date/time completed: 3-31-17 1600 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: NA
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1165 °C 1 °C 1 °C (Describe)
 Thermometer ID: 1003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ± 6°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		Sampled Sun Day
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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>			pH
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 3-31-17 1600

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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

E06@9'
3/31/2017 1:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703445-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7C3105	03/31/2017	03/31/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 73.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7C3104	03/31/2017	03/31/2017	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "
 Surrogate: Toluene-d8 105 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.87		pH Units	1	B7C3106	03/31/2017	03/31/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.18		mmhos/cm	"	B7C3107	03/31/2017	03/31/2017	
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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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

S06@9'
3/31/2017 1:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703445-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7C3105	03/31/2017	03/31/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 92.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7C3104	03/31/2017	03/31/2017	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 112 % 70-130 " " "
Surrogate: Toluene-d8 104 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 98.0 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.19		pH Units	1	B7C3106	03/31/2017	03/31/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.989		mmhos/cm	"	B7C3107	03/31/2017	03/31/2017	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

B14@10'
3/31/2017 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703445-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7C3105	03/31/2017	03/31/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 95.9 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7C3104	03/31/2017	03/31/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 95.1 % 70-130 " " 03/31/2017
Surrogate: Toluene-d8 106 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.54		pH Units	1	B7C3106	03/31/2017	03/31/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.790		mmhos/cm	"	B7C3107	03/31/2017	03/31/2017	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

S05@9'
3/31/2017 2:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703445-04 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7C3105	03/31/2017	03/31/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 80.2 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7C3104	03/31/2017	03/31/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.0 % 70-130 " " 03/31/2017
Surrogate: Toluene-d8 107 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.14		pH Units	1	B7C3106	03/31/2017	03/31/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.15		mmhos/cm	"	B7C3107	03/31/2017	03/31/2017	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

W07@9'
3/31/2017 2:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703445-05 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	170	25.0	mg/kg	1	B7C3105	03/31/2017	03/31/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	91.2 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	142	5.00	mg/kg	25	B7C3104	03/31/2017	03/31/2017	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130			"	"	03/31/2017	
Surrogate: Toluene-d8	108 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %	70-130			"	"	"	

pH in Soil by EPA 9045D

pH	8.46		pH Units	1	B7C3106	03/31/2017	03/31/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.00		mmhos/cm	"	B7C3107	03/31/2017	03/31/2017	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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
Batch B7C3104 - EPA 5030 (soil)										
Blank (B7C3104-BLK1)										
					Prepared: 03/31/2017 Analyzed: 03/31/2017					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.1	70-130			
Surrogate: Toluene-d8	67		"	62.5		107	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.5	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C3104 - EPA 5030 (soil)

LCS (B7C3104-BS1)

Prepared: 03/31/2017 Analyzed: 03/31/2017

Benzene	0.081	0.002	mg/kg	0.100		80.9	77.1-124			
Toluene	0.090	0.002	"	0.100		90.1	74.5-128			
Ethylbenzene	0.090	0.002	"	0.100		89.7	66.4-127			
m,p-Xylene	0.181	0.004	"	0.200		90.7	76.6-124			
o-Xylene	0.090	0.002	"	0.100		89.9	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	66		"	62.5		106	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.2	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C3104 - EPA 5030 (soil)

Matrix Spike (B7C3104-MS1)	Source: Y703445-01			Prepared: 03/31/2017 Analyzed: 03/31/2017						
Benzene	0.084	0.002	mg/kg	0.100	ND	83.7	71.8-126			
Toluene	0.094	0.002	"	0.100	ND	93.6	65.1-130			
Ethylbenzene	0.094	0.002	"	0.100	ND	94.0	62.2-130			
m,p-Xylene	0.189	0.004	"	0.200	ND	94.6	46.5-137			
o-Xylene	0.094	0.002	"	0.100	ND	94.5	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	51		ug/kg	62.5		82.2	70-130			
Surrogate: Toluene-d8	67		"	62.5		106	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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

Brian Sulzberger
 Project Number: 014217033
 Project: KMG - Lee USX VV 15-3

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 B7C3104 - EPA 5030 (soil)

Matrix Spike Dup (B7C3104-MSD1)	Source: Y703445-01			Prepared: 03/31/2017 Analyzed: 03/31/2017						
Benzene	0.089	0.002	mg/kg	0.100	ND	88.8	71.8-126	5.87	11.3	
Toluene	0.097	0.002	"	0.100	ND	97.3	65.1-130	3.90	15.4	
Ethylbenzene	0.101	0.002	"	0.100	ND	101	62.2-130	6.92	19.6	
m,p-Xylene	0.202	0.004	"	0.200	ND	101	46.5-137	6.67	19.2	
o-Xylene	0.101	0.002	"	0.100	ND	101	54.2-134	6.53	17.9	
Surrogate: 1,2-Dichloroethane-d4	68		ug/kg	62.5		108	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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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 B7C3105 - EPA 3550B

Blank (B7C3105-BLK1)

Prepared: 03/31/2017 Analyzed: 03/31/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	49		"	50.0		97.8	59-131			

LCS (B7C3105-BS1)

Prepared: 03/31/2017 Analyzed: 03/31/2017

Diesel (C10-C28)	958	50.0	mg/kg	1000		95.8	64-121			
Residual Range Organics (C28-C40)	1080	200	"	1000		108	58-124			
Surrogate: o-Terphenyl	52		"	50.0		104	59-131			

Matrix Spike (B7C3105-MS1)

Source: Y703445-01

Prepared: 03/31/2017 Analyzed: 03/31/2017

Diesel (C10-C28)	941	50.0	mg/kg	1000	ND	94.1	53-125			
Residual Range Organics (C28-C40)	1010	200	"	1000	24.3	98.4	47-133			
Surrogate: o-Terphenyl	50		"	50.0		99.8	59-131			

Matrix Spike Dup (B7C3105-MSD1)

Source: Y703445-01

Prepared: 03/31/2017 Analyzed: 03/31/2017

Diesel (C10-C28)	901	50.0	mg/kg	1000	ND	90.1	53-125	4.30	20	
Residual Range Organics (C28-C40)	952	200	"	1000	24.3	92.7	47-133	5.95	20	
Surrogate: o-Terphenyl	50		"	50.0		99.3	59-131			

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Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7C3106 - NO PREP										
Duplicate (B7C3106-DUP1)		Source: Y703445-01			Prepared: 03/31/2017 Analyzed: 03/31/2017					
pH	7.86		pH Units		7.87			0.127	25	
Batch B7C3107 - NO PREP										
Blank (B7C3107-BLK1)		Prepared: 03/31/2017 Analyzed: 03/31/2017								
Specific Conductance (EC)	0.00320		mmhos/cm							
Duplicate (B7C3107-DUP1)		Source: Y703445-01			Prepared: 03/31/2017 Analyzed: 03/31/2017					
Specific Conductance (EC)	1.10		mmhos/cm		1.18			7.21	25	

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Project: KMG - Lee USX VV 15-3

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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Jen Pellegrini For Noelle Doyle Mathis, President