

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
RAEL USX WW 27-12
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

COGCC Allowable Concentration (Soil) -->				Organics (mg/kg)										
				500			0.17	85	100	175	23	4	(6-9)	12
Sample ID:	Sample Date:	Sample Depth (feet bgs):	Photoionization Detector Reading (ppm):	TPH-GRO (C6-C10) Low Fraction	TPH-DRO (C10-C28) High Fraction	TPH-RRO (C28-C40) High Fraction	Benzene	Toluene	Ethylbenzene	Xylenes - total	Naphthalene	EC (<4 mmhos/cm or 2x background)	pH (unit)	SAR
B01@8'	03/25/2020	8'	0.0	<5.00	<25.0	<100	<0.050	<0.050	<0.050	<0.050	<0.200	0.0532	9.15 †	4.60
E01@7'	03/25/2020	7'	0.0	<5.00	25.0	<100	<0.050	<0.050	<0.050	<0.050	<0.200	NA	NA	NA
N01@7'	03/25/2020	7'	0.0	<5.00	<25.0	<100	<0.050	<0.050	<0.050	<0.050	<0.200	NA	NA	NA
S01@7'	03/25/2020	7'	0.0	<5.00	<25.0	<100	<0.050	<0.050	<0.050	<0.050	<0.200	NA	NA	NA
W01@7'	03/25/2020	7'	0.0	<5.00	<25.0	<100	<0.050	<0.050	<0.050	<0.050	<0.200	NA	NA	NA

Notes: mg/kg - milligrams per kilogram
COGCC - Colorado Oil and Gas Conservation Commission
bgs - below ground surface
ppm - parts per million
TPH - total petroleum hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics

RRO - residual range organics
EC - Specific Conductance
mmhos/cm - millimhos per centimeter
SAR - Sodium Adsorption Ratio
NA - not analyzed
Bold indicates result exceeds allowable level
† - Sample was collected at a depth greater than 3 feet bgs





April 09, 2020

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - RAE USX WW 27-12

Project Number - 014219078

Attached are your analytical results for KMG - RAE USX WW 27-12 received by Origins Laboratory, Inc. March 25, 2020. This project is associated with Origins project number Y003515-01.

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: 014219078
Project: KMG - RAEL USX WW 27-12

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@8'	Y003515-01	Soil	March 25, 2020 13:30	03/25/2020 15:45
N01@7'	Y003515-02	Soil	March 25, 2020 13:35	03/25/2020 15:45
E01@7'	Y003515-03	Soil	March 25, 2020 13:40	03/25/2020 15:45
S01@7'	Y003515-04	Soil	March 25, 2020 13:45	03/25/2020 15:45
W01@7'	Y003515-05	Soil	March 25, 2020 13:50	03/25/2020 15:45

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014219078
Project: KMG - RAEL USX WW 27-12

www.originslaboratory.com page 1 of 1

ORIGINS LABORATORY, INC

Client: LTE
Address: 4600 W. 60th Ave
Arvada, CO 80003
Telephone Number: 303-433-9788
Email Address: KMG Team

Project Manager: Brian Sulzberger
Project Name: RAEL USX WW 27-12
Project Number: 014219078
Samples Collected By: Jeff Boden

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	GC/MS	GC/MS	
B01 @ 8'	3/25/20	1330	2	X				X				X	X	GC/MS	1
N01 @ 7'	3/25/20	1335	1	X				X				X	X	GC/MS	2
E01 @ 7'	3/25/20	1340	1	X				X				X	X	GC/MS	3
S01 @ 7'	3/25/20	1345	1	X				X				X	X	GC/MS	4
W01 @ 7'	3/25/20	1350	1	X				X				X	X	GC/MS	5
BG01	3/25/20	1400	1	X				X				X	X	GC/MS	6
															7
															8
															9
															10

Relinquished By: [Signature] Date: 3/25/20 Time: 1545
Relinquished By: [Signature] Date: 3/25/20 Time: 1545

Temp Received: 73 Date Results Needed: 7/3

Origins Laboratory, Inc.

Jeff Pellegrini

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

Brian Sulzberger
Project Number: 014219078
Project: KMG - RAEL USX WW 27-12

Origins Laboratory

Origins Work Order: Y003515

Checklist Completed by: JG KDK

Date/time completed: 03/25/2020

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

Cooler Number/Temperature: 1 17.3 °C / _____ °C / _____ °C (Describe)

Thermometer ID: T003

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

Sample Receipt Checklist

Client: LTE

Client Project ID: RAEL USX WW 27-12

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

Airbill #: N/A

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"/>	<input checked="" type="checkbox"/>		<u>Sampled Same Day</u>
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>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) [Signature]

Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger
Project Number: 014219078
Project: KMG - RAEL USX WW 27-12

B01@8'

3/25/2020 1:30:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y003515-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0C2501	KDK	03/25/2020	03/25/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 62.8 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0C2507	KDK	03/25/2020	03/26/2020	U
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "
Surrogate: Toluene-d8 102 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 110 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	1.75	me/L	1	[none]		03/26/2020	03/30/2020
Magnesium	0.91	"	"	"		"	"
Sodium	5.31	"	"	"		"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014219078
Project: KMG - RAEL USX WW 27-12

B01@8'

3/25/2020 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y003515-01 (Soil)

pH in Soil by EPA 9045D

pH	9.15	pH Units	1	B0C2508	KDK	03/25/2020	03/25/2020
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SAR by 20B Saturated Paste

SAR	4.60		1	[none]		03/26/2020	03/30/2020
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0532	0.00505	mmhos/cm	1	B0C2509	KDK	03/25/2020	03/25/2020
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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: 014219078
Project: KMG - RAEL USX WW 27-12

N01@7'

3/25/2020 1:35:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y003515-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0C2501	KDK	03/25/2020	03/25/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 67.3 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0C2507	KDK	03/25/2020	03/26/2020	U
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "
Surrogate: Toluene-d8 104 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 110 % 70-130 " " "

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014219078
Project: KMG - RAEL USX WW 27-12

E01@7'

3/25/2020 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y003515-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	25.0	25.0	mg/kg	1	B0C2501	KDK	03/25/2020	03/25/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 75.3 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0C2507	KDK	03/25/2020	03/26/2020	U
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "
Surrogate: Toluene-d8 102 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 109 % 70-130 " " "

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014219078
Project: KMG - RAEL USX WW 27-12

S01@7'

3/25/2020 1:45:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y003515-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0C2501	KDK	03/25/2020	03/25/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 60.6 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0C2507	KDK	03/25/2020	03/26/2020	U
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "
Surrogate: Toluene-d8 104 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 110 % 70-130 " " "

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014219078
Project: KMG - RAEL USX WW 27-12

W01@7'

3/25/2020 1:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y003515-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0C2501	KDK	03/25/2020	03/25/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 66.1 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0C2507	KDK	03/25/2020	03/26/2020	U
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "
Surrogate: Toluene-d8 104 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 111 % 70-130 " " "

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014219078
Project: KMG - RAEL USX WW 27-12

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0C2501 - EPA 3580										
Blank (B0C2501-BLK1)					Prepared: 03/25/2020 Analyzed: 03/25/2020					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	19		"	25.0		74.5	50-150			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014219078
Project: KMG - RAEL USX WW 27-12

Extractable Petroleum Hydrocarbons by 8015D - 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 B0C2501 - EPA 3580

LCS (B0C2501-BS1)

Prepared: 03/25/2020 Analyzed: 03/25/2020

Diesel (C10-C28)	909	50.0	mg/kg	1000		90.9	70-130			
Residual Range Organics (C28-C40)	1120	200	"	1000		112	70-130			
Surrogate: o-Terphenyl	54		"	50.0		108	50-150			

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: 014219078
Project: KMG - RAEL USX WW 27-12

Extractable Petroleum Hydrocarbons by 8015D - 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 B0C2501 - EPA 3580

Matrix Spike (B0C2501-MS1)		Source: Y003485-01			Prepared: 03/25/2020 Analyzed: 03/25/2020					
Diesel (C10-C28)	775	50.0	mg/kg	1000	ND	77.5	70-130			
Residual Range Organics (C28-C40)	908	200	"	1000	36.3	87.2	70-130			
Surrogate: o-Terphenyl	45		"	50.0		89.9	50-150			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014219078
Project: KMG - RAEL USX WW 27-12

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0C2501 - EPA 3580										
Matrix Spike Dup (B0C2501-MSD1)		Source: Y003485-01			Prepared: 03/25/2020 Analyzed: 03/25/2020					
Diesel (C10-C28)	713	50.0	mg/kg	1000	ND	71.3	70-130	8.38	35	
Residual Range Organics (C28-C40)	872	200	"	1000	36.3	83.5	70-130	4.25	35	
Surrogate: o-Terphenyl	41		"	50.0		81.2	50-150			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014219078
Project: KMG - RAEL USX WW 27-12

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0C2507 - EPA 5030 (soil)										
Blank (B0C2507-BLK1)					Prepared: 03/25/2020 Analyzed: 03/25/2020					
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
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014219078
Project: KMG - RAEL USX WW 27-12

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0C2507 - EPA 5030 (soil)										
LCS (B0C2507-BS1)					Prepared: 03/25/2020 Analyzed: 03/25/2020					
Benzene	0.096	0.002	mg/kg	0.100		95.8	70-130			
Toluene	0.101	0.002	"	0.100		101	70-130			
Ethylbenzene	0.096	0.002	"	0.100		95.9	70-130			
m,p-Xylene	0.193	0.004	"	0.200		96.4	70-130			
o-Xylene	0.094	0.002	"	0.100		94.2	70-130			
Naphthalene	0.111	0.008	"	0.100		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		112	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014219078
Project: KMG - RAEL USX WW 27-12

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0C2507 - EPA 5030 (soil)										
Matrix Spike (B0C2507-MS1)		Source: Y003514-01			Prepared: 03/25/2020 Analyzed: 03/25/2020					
Benzene	0.112	0.002	mg/kg	0.100	ND	112	70-130			
Toluene	0.118	0.002	"	0.100	ND	118	70-130			
Ethylbenzene	0.112	0.002	"	0.100	ND	112	70-130			
m,p-Xylene	0.228	0.004	"	0.200	ND	114	70-130			
o-Xylene	0.110	0.002	"	0.100	ND	110	70-130			
Naphthalene	0.122	0.008	"	0.100	0.028	94.8	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0C2507 - EPA 5030 (soil)										
Matrix Spike Dup (B0C2507-MSD1)		Source: Y003514-01			Prepared: 03/25/2020 Analyzed: 03/25/2020					
Benzene	0.108	0.002	mg/kg	0.100	ND	108	70-130	2.93	20	
Toluene	0.115	0.002	"	0.100	ND	115	70-130	3.23	20	
Ethylbenzene	0.110	0.002	"	0.100	ND	110	70-130	2.05	20	
m,p-Xylene	0.223	0.004	"	0.200	ND	111	70-130	2.30	20	
o-Xylene	0.107	0.002	"	0.100	ND	107	70-130	2.43	20	
Naphthalene	0.124	0.008	"	0.100	0.028	96.3	70-130	1.27	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - 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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Classical Chemistry Parameters - 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 B0C2508 - NO PREP

Duplicate (B0C2508-DUP1)		Source: Y003514-01			Prepared: 03/25/2020 Analyzed: 03/25/2020					
pH	7.71		pH Units		7.90			2.43	25	

Batch B0C2509 - NO PREP

Blank (B0C2509-BLK1)		Prepared: 03/25/2020 Analyzed: 03/25/2020								
Specific Conductance (EC)	0.00380	0.00500	mmhos/cm							
Duplicate (B0C2509-DUP1)		Source: Y003514-01			Prepared: 03/25/2020 Analyzed: 03/25/2020					
Specific Conductance (EC)	0.0319	0.00508	mmhos/cm		0.0389			19.8	25	

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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.



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Jen Pellegrini For Noelle Doyle Mathis, President