

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
KERR 29C-12HZ - EAST RELEASE
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@15'	15'	05/23/2016	0.02	0.02	0.002	0.02	<25	<0.20	<100	7.38	0.141
E01@12'	12'	05/23/2016	<0.002	<0.002	<0.002	<0.002	<25	<0.20	<100	7.61	0.0569
N01@12'	12'	05/23/2016	0.004	<0.002	<0.002	<0.002	<25	<0.20	<100	7.33	0.118
S01@12'	12'	05/23/2016	0.005	0.002	<0.002	<0.002	<25	<0.20	<100	7.37	0.0560
B02 @ 13.5'	13.5'	05/26/2016	0.03	0.03	<0.002	0.01	<25	0.27	<100	8.41	0.0628
N02 @ 12'	12'	05/26/2016	<0.002	<0.002	<0.002	<0.002	<25	<0.20	<100	8.43	0.0449
S02 @ 12'	12'	05/26/2016	0.002	0.003	<0.002	<0.002	<25	<0.20	<100	8.52	0.0579
W01 @ 12'	12'	05/26/2016	0.002	0.004	<0.002	<0.002	<25	<0.20	<100	8.70	0.0433
COGCC Allowable Levels			0.17	85	100	175	500*	500*	500*	6-9	4

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
* - Standard applies to combined DRO-GRO-ORO
< - less than laboratory reporting limit
Bold indicates result exceeds allowable level





May 24, 2016

LT Environmental, Inc.

John Cocroft

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Kerr 29C-12Hz

Project Number - 014216089/WO#890649

Attached are your analytical results for KMG - Kerr 29C-12Hz received by Origins Laboratory, Inc. May 23, 2016. This project is associated with Origins project number X605282-01.

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

John Cocroft
Project Number: 014216089/WO#89064994
Project: KMG - Kerr 29C-12Hz

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@15'	X605282-01	Soil	May 23, 2016 16:20	05/23/2016 18:45
N01@12'	X605282-02	Soil	May 23, 2016 16:30	05/23/2016 18:45
E01@12'	X605282-03	Soil	May 23, 2016 16:40	05/23/2016 18:45
S01@12'	X605282-04	Soil	May 23, 2016 16:50	05/23/2016 18:45

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216089/WO#89064994
 Project: KMG - Kerr 29C-12Hz

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1605282

Client: LT Environmental

Client Project ID: KMG-Kerr 29-12Hz

Checklist Completed by: J. Pellegrini

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

Date/time completed: 5/23/16 18:28

Airbill #: NA

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

Cooler Number/Temperature: 1 / 3.8 °C / _____ °C / _____ °C (Describe) _____ °C

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⁾ ?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	X			PH
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
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)			X	
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.

J. Pellegrini
 Reviewed by (Project Manager)

5/23/16
 Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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

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

John Cocroft
 Project Number: 014216089/WO#89064994
 Project: KMG - Kerr 29C-12Hz

B01@15'
5/23/2016 4:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X605282-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	B6E2302	05/23/2016	05/23/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 87.1 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	B6E2301	05/23/2016	05/23/2016	U
Benzene	0.02	0.002	"	"	"	"	"	
Toluene	0.02	0.002	"	"	"	"	"	
Ethylbenzene	0.002	0.002	"	"	"	"	"	
Xylenes, total	0.02	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 114 % 70-130 " " "
Surrogate: Toluene-d8 96.7 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.38		pH Units	1	B6E2308	05/23/2016	05/23/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.141		mmhos/cm	"	B6E2309	05/23/2016	"	
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Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216089/WO#89064994
 Project: KMG - Kerr 29C-12Hz

N01@12'
5/23/2016 4:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X605282-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	B6E2302	05/23/2016	05/23/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 69.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	B6E2301	05/23/2016	05/23/2016	U
Benzene	0.004	0.002	"	"	"	"	"	
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 97.1 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.33		pH Units	1	B6E2308	05/23/2016	05/23/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.118		mmhos/cm	"	B6E2309	05/23/2016	"	
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Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216089/WO#89064994
 Project: KMG - Kerr 29C-12Hz

E01@12'
5/23/2016 4:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X605282-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	B6E2302	05/23/2016	05/23/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 69.1 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	B6E2301	05/23/2016	05/23/2016	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 110 % 70-130 " " "
 Surrogate: Toluene-d8 98.0 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.61		pH Units	1	B6E2308	05/23/2016	05/23/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0569		mmhos/cm	"	B6E2309	05/23/2016	"	
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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

John Cocroft
 Project Number: 014216089/WO#89064994
 Project: KMG - Kerr 29C-12Hz

S01@12'
5/23/2016 4:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X605282-04 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	B6E2302	05/23/2016	05/23/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 66.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	B6E2301	05/23/2016	05/23/2016	U
Benzene	0.005	0.002	"	"	"	"	"	
Toluene	0.002	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 112 % 70-130 " " "
Surrogate: Toluene-d8 98.0 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 106 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.37		pH Units	1	B6E2308	05/23/2016	05/23/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0560		mmhos/cm	"	B6E2309	05/23/2016	"	
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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

John Cocroft
 Project Number: 014216089/WO#89064994
 Project: KMG - Kerr 29C-12Hz

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 B6E2301 - EPA 5030 (soil)

Blank (B6E2301-BLK1)

Prepared: 05/23/2016 Analyzed: 05/23/2016

Gasoline Range Hydrocarbons	ND	0.20	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		111	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.1	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

John Cocroft
 Project Number: 014216089/WO#89064994
 Project: KMG - Kerr 29C-12Hz

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 B6E2301 - EPA 5030 (soil)

LCS (B6E2301-BS1)

Prepared: 05/23/2016 Analyzed: 05/23/2016

Benzene	0.10	0.002	mg/kg	0.100		99.0	77.1-124			
Toluene	0.09	0.002	"	0.100		93.0	74.5-128			
Ethylbenzene	0.09	0.002	"	0.100		93.1	66.4-127			
m,p-Xylene	0.19	0.004	"	0.200		95.4	76.6-124			
o-Xylene	0.09	0.002	"	0.100		92.2	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	72		ug/kg	62.5		115	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.6	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

John Cocroft
 Project Number: 014216089/WO#89064994
 Project: KMG - Kerr 29C-12Hz

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 B6E2301 - EPA 5030 (soil)

Matrix Spike (B6E2301-MS1)	Source: X605275-02			Prepared: 05/23/2016 Analyzed: 05/23/2016						
Benzene	0.10	0.002	mg/kg	0.100	ND	95.8	71.8-126			
Toluene	0.09	0.002	"	0.100	ND	90.2	65.1-130			
Ethylbenzene	0.10	0.002	"	0.100	ND	96.3	62.2-130			
m,p-Xylene	0.17	0.004	"	0.200	ND	85.8	46.5-137			
o-Xylene	0.10	0.002	"	0.100	ND	96.2	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	74		ug/kg	62.5		118	70-130			
Surrogate: Toluene-d8	61		"	62.5		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.6	70-130			

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216089/WO#89064994
 Project: KMG - Kerr 29C-12Hz

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 B6E2301 - EPA 5030 (soil)

Matrix Spike Dup (B6E2301-MSD1)	Source: X605275-02			Prepared: 05/23/2016 Analyzed: 05/23/2016						
Benzene	0.09	0.002	mg/kg	0.100	ND	94.5	71.8-126	1.37	11.3	
Toluene	0.09	0.002	"	0.100	ND	88.2	65.1-130	2.29	15.4	
Ethylbenzene	0.09	0.002	"	0.100	ND	90.6	62.2-130	6.01	19.6	
m,p-Xylene	0.18	0.004	"	0.200	ND	89.1	46.5-137	3.69	19.2	
o-Xylene	0.09	0.002	"	0.100	ND	90.5	54.2-134	6.02	17.9	
Surrogate: 1,2-Dichloroethane-d4	78		ug/kg	62.5		125	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.6	70-130			

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216089/WO#89064994
 Project: KMG - Kerr 29C-12Hz

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 B6E2302 - EPA 3580

Blank (B6E2302-BLK1)

Prepared: 05/23/2016 Analyzed: 05/23/2016

Diesel (C10-C28)	ND	50	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	36		"	50.0		72.0	59-131			

LCS (B6E2302-BS1)

Prepared: 05/23/2016 Analyzed: 05/23/2016

Diesel (C10-C28)	840	50	mg/kg				64-121			
Residual Range Organics (C28-C40)	970	200	"				58-124			
Surrogate: o-Terphenyl	43		"	50.0		85.5	59-131			

LCS Dup (B6E2302-BSD1)

Prepared: 05/23/2016 Analyzed: 05/23/2016

Diesel (C10-C28)	740	50	mg/kg				64-121		20	
Residual Range Organics (C28-C40)	850	200	"				58-124		20	
Surrogate: o-Terphenyl	39		"	50.0		77.8	59-131			

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216089/WO#89064994
 Project: KMG - Kerr 29C-12Hz

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 B6E2308 - NO PREP										
Duplicate (B6E2308-DUP1)		Source: X605277-01			Prepared: 05/23/2016 Analyzed: 05/23/2016					
pH	7.14		pH Units		7.32			2.49	25	
Batch B6E2309 - NO PREP										
Blank (B6E2309-BLK1)		Prepared: 05/23/2016 Analyzed: 05/23/2016								
Specific Conductance (EC)	0.00230		mmhos/cm							
Duplicate (B6E2309-DUP1)		Source: X605277-01			Prepared: 05/23/2016 Analyzed: 05/23/2016					
Specific Conductance (EC)	0.0671		mmhos/cm		0.0720			7.05	25	

Origins Laboratory, Inc.



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

John Cocroft
Project Number: 014216089/WO#89064994
Project: KMG - Kerr 29C-12Hz

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



May 27, 2016

LT Environmental, Inc.

John Cocroft

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Kerr 29C-12Hz (East)

Project Number - 014216089/WO#890649

Attached are your analytical results for KMG - Kerr 29C-12Hz (East) received by Origins Laboratory, Inc. May 26, 2016. This project is associated with Origins project number X605335-01.

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

John Cocroft
Project Number: 014216089/WO#89064994
Project: KMG - Kerr 29C-12Hz (East)

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N02 @ 12'	X605335-01	Soil	May 26, 2016 11:45	05/26/2016 16:55
S02 @ 12'	X605335-02	Soil	May 26, 2016 11:50	05/26/2016 16:55
B02 @ 13.5'	X605335-03	Soil	May 26, 2016 11:55	05/26/2016 16:55
W01 @ 12'	X605335-04	Soil	May 26, 2016 12:00	05/26/2016 16:55

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216089/WO#89064994
 Project: KMG - Kerr 29C-12Hz (East)

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: XLO5335

Client: LTE

Client Project ID: Kerr 29C-12Hz (East)

Checklist Completed by: Jeff Smith

Shipped Via: HTD

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

Date/time completed: 5/22/12

Airbill #: N/A

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

Cooler Number/Temperature: 1 13.4 °C 1 °C 1 °C (Describe) 1 °C

Thermometer ID: T053

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	X			
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⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	X			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⁾ ?	✓			
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: JMS (Project Manager)

Date/Time Reviewed: 5/22/12

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216089/WO#89064994
 Project: KMG - Kerr 29C-12Hz (East)

N02 @ 12'
5/26/2016 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X605335-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	B6E2606	05/26/2016	05/26/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	B6E2601	05/26/2016	05/26/2016	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 111 % 70-130 " " "
 Surrogate: Toluene-d8 104 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.43		pH Units	1	B6E2608	05/26/2016	05/26/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0449		mmhos/cm	"	B6E2609	"	"	
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Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216089/WO#89064994
 Project: KMG - Kerr 29C-12Hz (East)

S02 @ 12'
5/26/2016 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X605335-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	B6E2606	05/26/2016	05/26/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	B6E2601	05/26/2016	05/26/2016	U
Benzene	0.002	0.002	"	"	"	"	"	
Toluene	0.003	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 114 % 70-130 " " "
Surrogate: Toluene-d8 105 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.52		pH Units	1	B6E2608	05/26/2016	05/26/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0579		mmhos/cm	"	B6E2609	"	"	
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Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216089/WO#89064994
 Project: KMG - Kerr 29C-12Hz (East)

B02 @ 13.5'
5/26/2016 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X605335-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	B6E2606	05/26/2016	05/26/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 72.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	0.27	0.20	mg/kg	1	B6E2601	05/26/2016	05/26/2016	
Benzene	0.03	0.002	"	"	"	"	"	
Toluene	0.03	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	0.01	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 111 % 70-130 " " "
Surrogate: Toluene-d8 101 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.41		pH Units	1	B6E2608	05/26/2016	05/26/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0628		mmhos/cm	"	B6E2609	"	"	
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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

John Cocroft
 Project Number: 014216089/WO#89064994
 Project: KMG - Kerr 29C-12Hz (East)

W01 @ 12'
5/26/2016 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X605335-04 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	B6E2606	05/26/2016	05/26/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 73.2 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	B6E2601	05/26/2016	05/26/2016	U
Benzene	0.002	0.002	"	"	"	"	"	
Toluene	0.004	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "
Surrogate: Toluene-d8 102 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 99.6 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.70		pH Units	1	B6E2608	05/26/2016	05/26/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0433		mmhos/cm	"	B6E2609	"	"	
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Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216089/WO#89064994
 Project: KMG - Kerr 29C-12Hz (East)

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 B6E2601 - EPA 5030 (soil)

Blank (B6E2601-BLK1)

Prepared: 05/26/2016 Analyzed: 05/26/2016

Gasoline Range Hydrocarbons	ND	0.20	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	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		108	70-130			

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216089/WO#89064994
 Project: KMG - Kerr 29C-12Hz (East)

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 B6E2601 - EPA 5030 (soil)

LCS (B6E2601-BS1)

Prepared: 05/26/2016 Analyzed: 05/26/2016

Benzene	0.10	0.002	mg/kg	0.100		100	77.1-124			
Toluene	0.10	0.002	"	0.100		97.7	74.5-128			
Ethylbenzene	0.10	0.002	"	0.100		101	66.4-127			
m,p-Xylene	0.21	0.004	"	0.200		105	76.6-124			
o-Xylene	0.10	0.002	"	0.100		103	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	70		ug/kg	62.5		111	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216089/WO#89064994
 Project: KMG - Kerr 29C-12Hz (East)

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 B6E2601 - EPA 5030 (soil)

Matrix Spike (B6E2601-MS1)	Source: X605312-01			Prepared: 05/26/2016 Analyzed: 05/26/2016						
Benzene	0.10	0.002	mg/kg	0.100	ND	105	71.8-126			
Toluene	0.10	0.002	"	0.100	ND	101	65.1-130			
Ethylbenzene	0.11	0.002	"	0.100	ND	107	62.2-130			
m,p-Xylene	0.22	0.004	"	0.200	ND	111	46.5-137			
o-Xylene	0.11	0.002	"	0.100	ND	107	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	71		ug/kg	62.5		114	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.9	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

John Cocroft
 Project Number: 014216089/WO#89064994
 Project: KMG - Kerr 29C-12Hz (East)

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 B6E2601 - EPA 5030 (soil)

Matrix Spike Dup (B6E2601-MSD1)	Source: X605312-01			Prepared: 05/26/2016 Analyzed: 05/26/2016						
Benzene	0.10	0.002	mg/kg	0.100	ND	102	71.8-126	2.15	11.3	
Toluene	0.10	0.002	"	0.100	ND	99.8	65.1-130	1.63	15.4	
Ethylbenzene	0.10	0.002	"	0.100	ND	105	62.2-130	2.35	19.6	
m,p-Xylene	0.22	0.004	"	0.200	ND	108	46.5-137	2.40	19.2	
o-Xylene	0.11	0.002	"	0.100	ND	106	54.2-134	1.26	17.9	
Surrogate: 1,2-Dichloroethane-d4	72		ug/kg	62.5		115	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

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

John Cocroft
 Project Number: 014216089/WO#89064994
 Project: KMG - Kerr 29C-12Hz (East)

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 B6E2606 - EPA 3580

Blank (B6E2606-BLK1)

Prepared: 05/26/2016 Analyzed: 05/26/2016

Diesel (C10-C28)	ND	50	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	42		"	50.0		83.5	59-131			

Blank (B6E2606-BLK2)

Prepared: 05/26/2016 Analyzed: 05/26/2016

Diesel (C10-C28)	ND	50	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	42		"	50.0		84.3	59-131			

LCS (B6E2606-BS1)

Prepared: 05/26/2016 Analyzed: 05/26/2016

Diesel (C10-C28)	910	50	mg/kg	1000		91.2	64-121			
Residual Range Organics (C28-C40)	920	200	"	1000		91.9	58-124			
Surrogate: o-Terphenyl	47		"	50.0		93.1	59-131			

LCS (B6E2606-BS2)

Prepared: 05/26/2016 Analyzed: 05/26/2016

Diesel (C10-C28)	910	50	mg/kg	1000		91.2	64-121			
Residual Range Organics (C28-C40)	920	200	"	1000		91.9	58-124			
Surrogate: o-Terphenyl	47		"	50.0		93.1	59-131			

Matrix Spike (B6E2606-MS1)

Source: X605302-06

Prepared: 05/26/2016 Analyzed: 05/26/2016

Diesel (C10-C28)	840	50	mg/kg	1000	ND	84.5	53-125			
Residual Range Organics (C28-C40)	930	200	"	1000	48	88.6	47-133			

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216089/WO#89064994
 Project: KMG - Kerr 29C-12Hz (East)

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 B6E2606 - EPA 3580										
Matrix Spike (B6E2606-MS1)			Source: X605302-06		Prepared: 05/26/2016 Analyzed: 05/26/2016					
Surrogate: o-Terphenyl	42		mg/kg	50.0		83.1	59-131			
Matrix Spike (B6E2606-MS2)			Source: X605335-01		Prepared: 05/26/2016 Analyzed: 05/26/2016					
Diesel (C10-C28)	880	50	mg/kg	1000	ND	87.6	53-125			
Residual Range Organics (C28-C40)	930	200	"	1000	22	90.4	47-133			
Surrogate: o-Terphenyl	42		"	50.0		84.2	59-131			
Matrix Spike Dup (B6E2606-MSD1)			Source: X605302-06		Prepared: 05/26/2016 Analyzed: 05/26/2016					
Diesel (C10-C28)	890	50	mg/kg	1000	ND	88.7	53-125	4.82	20	
Residual Range Organics (C28-C40)	1000	200	"	1000	48	95.2	47-133	7.20	20	
Surrogate: o-Terphenyl	44		"	50.0		87.8	59-131			
Matrix Spike Dup (B6E2606-MSD2)			Source: X605335-01		Prepared: 05/26/2016 Analyzed: 05/26/2016					
Diesel (C10-C28)	1000	50	mg/kg	1000	ND	101	53-125	14.1	20	
Residual Range Organics (C28-C40)	1000	200	"	1000	22	98.2	47-133	8.28	20	
Surrogate: o-Terphenyl	52		"	50.0		103	59-131			

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216089/WO#89064994
 Project: KMG - Kerr 29C-12Hz (East)

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 B6E2608 - NO PREP										
Duplicate (B6E2608-DUP1)		Source: X605332-01			Prepared: 05/26/2016 Analyzed: 05/26/2016					
pH	8.23		pH Units		8.22			0.122	25	
Batch B6E2609 - NO PREP										
Blank (B6E2609-BLK1)		Prepared: 05/26/2016 Analyzed: 05/26/2016								
Specific Conductance (EC)	0.00310		mmhos/cm							
Duplicate (B6E2609-DUP1)		Source: X605332-01			Prepared: 05/26/2016 Analyzed: 05/26/2016					
Specific Conductance (EC)	0.207		mmhos/cm		0.209			0.962	25	

Origins Laboratory, Inc.



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

John Cocroft
Project Number: 014216089/WO#89064994
Project: KMG - Kerr 29C-12Hz (East)

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President