

March 03, 2016

LT Environmental, Inc.

John Cocroft

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Barclay 4-27

Project Number - 014216045/WO# 890227

Attached are your analytical results for KMG - Barclay 4-27 received by Origins Laboratory, Inc. March 02, 2016. This project is associated with Origins project number X603029-01.

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

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

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

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

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

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



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

John Cocroft
Project Number: 014216045/WO# 89022750
Project: KMG - Barclay 4-27

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S01 @ 4'	X603029-01	Soil	March 2, 2016 14:30	03/02/2016 17:25
S02 @ 4'	X603029-02	Soil	March 2, 2016 14:35	03/02/2016 17:25
N01 @ 4	X603029-03	Soil	March 2, 2016 14:40	03/02/2016 17:25
N02 @ 4	X603029-04	Soil	March 2, 2016 14:45	03/02/2016 17:25
B01 @ 7	X603029-05	Soil	March 2, 2016 14:50	03/02/2016 17:25
B02 @ 7	X603029-06	Soil	March 2, 2016 14:55	03/02/2016 17:25
W01 @ 4	X603029-07	Soil	March 2, 2016 15:00	03/02/2016 17:25
E01 @ 4	X603029-08	Soil	March 2, 2016 15:30	03/02/2016 17:25

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216045/WO# 89022750
 Project: KMG - Barclay 4-27

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X603029

Client: LT

Client Project ID: Barclay 4-27

Checklist Completed by: Jeff Smith

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

Date/time completed: 3/2/16

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 2.5 °C 1 / _____ °C 1 / _____ °C (Describe)

Thermometer ID: T203

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ^{(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"/>			
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.

Jeff Smith
 Reviewed by (Project Manager)

3/2/16
 Date/Time Reviewed

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216045/WO# 89022750
 Project: KMG - Barclay 4-27

S01 @ 4'
3/2/2016 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X603029-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	26	25	mg/kg	1	B6C0201	03/02/2016	03/03/2016	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6C0202	03/02/2016	03/02/2016	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "
 Surrogate: Toluene-d8 102 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.62		pH Units	1	B6C0206	03/02/2016	03/02/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0400		mmhos/cm	"	B6C0207	03/02/2016	03/02/2016	
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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: 014216045/WO# 89022750
 Project: KMG - Barclay 4-27

S02 @ 4'
3/2/2016 2:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X603029-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	30	25	mg/kg	1	B6C0201	03/02/2016	03/03/2016	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 84.9 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6C0202	03/02/2016	03/02/2016	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 102 % 70-130 " " "
 Surrogate: Toluene-d8 104 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 99.0 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.69		pH Units	1	B6C0206	03/02/2016	03/02/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0487		mmhos/cm	"	B6C0207	03/02/2016	03/02/2016	
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 Arvada CO 80003

John Cocroft
 Project Number: 014216045/WO# 89022750
 Project: KMG - Barclay 4-27

N01 @ 4
3/2/2016 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X603029-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	B6C0201	03/02/2016	03/03/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 88.1 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6C0202	03/02/2016	03/02/2016	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "
Surrogate: Toluene-d8 98.4 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 96.6 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.66		pH Units	1	B6C0206	03/02/2016	03/02/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.00710		mmhos/cm	"	B6C0207	03/02/2016	03/02/2016	
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 4600 West 60th Avenue
 Arvada CO 80003

John Cocroft
 Project Number: 014216045/WO# 89022750
 Project: KMG - Barclay 4-27

N02 @ 4
3/2/2016 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X603029-04 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	B6C0201	03/02/2016	03/03/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6C0202	03/02/2016	03/02/2016	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 97.3 % 70-130 " " "
Surrogate: Toluene-d8 100 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 98.0 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.29		pH Units	1	B6C0206	03/02/2016	03/02/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.00790		mmhos/cm	"	B6C0207	03/02/2016	03/02/2016	
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John Cocroft
 Project Number: 014216045/WO# 89022750
 Project: KMG - Barclay 4-27

B01 @ 7
3/2/2016 2:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X603029-05 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	160	25	mg/kg	1	B6C0201	03/02/2016	03/03/2016	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 71.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	6.94	5.00	mg/kg	25	B6C0202	03/02/2016	03/02/2016	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	0.271	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "
 Surrogate: Toluene-d8 111 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 96.1 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.12		pH Units	1	B6C0206	03/02/2016	03/02/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0122		mmhos/cm	"	B6C0207	03/02/2016	03/02/2016	
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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

John Cocroft
 Project Number: 014216045/WO# 89022750
 Project: KMG - Barclay 4-27

B02 @ 7
3/2/2016 2:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X603029-06 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	B6C0201	03/02/2016	03/03/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6C0202	03/02/2016	03/02/2016	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 107 % 70-130 " " "
 Surrogate: Toluene-d8 98.1 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 99.8 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.57		pH Units	1	B6C0206	03/02/2016	03/02/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0686		mmhos/cm	"	B6C0207	03/02/2016	03/02/2016	
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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: 014216045/WO# 89022750
 Project: KMG - Barclay 4-27

W01 @ 4
3/2/2016 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X603029-07 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	60	25	mg/kg	1	B6C0201	03/02/2016	03/03/2016	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	6.88	5.00	mg/kg	25	B6C0202	03/02/2016	03/02/2016	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	0.370	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "

Surrogate: Toluene-d8 102 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 97.7 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.32		pH Units	1	B6C0206	03/02/2016	03/02/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.00990		mmhos/cm	"	B6C0207	03/02/2016	03/02/2016	
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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

John Cocroft
 Project Number: 014216045/WO# 89022750
 Project: KMG - Barclay 4-27

E01 @ 4
3/2/2016 3:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X603029-08 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	830	25	mg/kg	1	B6C0201	03/02/2016	03/03/2016	
Residual Range Organics (C28-C40)	130	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 87.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	133	5.00	mg/kg	25	B6C0202	03/02/2016	03/02/2016	
Benzene	0.318	0.050	"	"	"	"	"	
Toluene	3.21	0.050	"	"	"	"	"	
Ethylbenzene	0.233	0.050	"	"	"	"	"	
Xylenes, total	12.0	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "
 Surrogate: Toluene-d8 116 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.89		pH Units	1	B6C0206	03/02/2016	03/02/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0210		mmhos/cm	"	B6C0207	03/02/2016	03/02/2016	
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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

John Cocroft
 Project Number: 014216045/WO# 89022750
 Project: KMG - Barclay 4-27

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 B6C0202 - EPA 5030 (soil)

Blank (B6C0202-BLK1)

Prepared: 03/02/2016 Analyzed: 03/02/2016

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	69.2		ug/kg	62.5		111	70-130			
Surrogate: Toluene-d8	60.7		"	62.5		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	61.9		"	62.5		99.0	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

John Cocroft
 Project Number: 014216045/WO# 89022750
 Project: KMG - Barclay 4-27

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 B6C0202 - EPA 5030 (soil)

LCS (B6C0202-BS1)

Prepared: 03/02/2016 Analyzed: 03/02/2016

Benzene	0.102	0.002	mg/kg	0.100		102	77.1-124			
Toluene	0.099	0.002	"	0.100		98.8	74.5-128			
Ethylbenzene	0.092	0.002	"	0.100		92.4	66.4-127			
m,p-Xylene	0.185	0.004	"	0.200		92.7	76.6-124			
o-Xylene	0.091	0.002	"	0.100		91.1	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61.1		ug/kg	62.5		97.8	70-130			
Surrogate: Toluene-d8	62.0		"	62.5		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	60.4		"	62.5		96.6	70-130			

Origins Laboratory, Inc.



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 Project: KMG - Barclay 4-27

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 B6C0202 - EPA 5030 (soil)

Matrix Spike (B6C0202-MS1)	Source: X603002-01			Prepared: 03/02/2016 Analyzed: 03/02/2016						
Benzene	0.122	0.002	mg/kg	0.100	0.006	116	71.8-126			
Toluene	0.141	0.002	"	0.100	0.025	116	65.1-130			
Ethylbenzene	0.111	0.002	"	0.100	0.002	110	62.2-130			
m,p-Xylene	0.223	0.004	"	0.200	0.005	109	46.5-137			
o-Xylene	0.109	0.002	"	0.100	0.002	108	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	57.8		ug/kg	62.5		92.4	70-130			
Surrogate: Toluene-d8	63.2		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62.9		"	62.5		101	70-130			

Origins Laboratory, Inc.



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 Project Number: 014216045/WO# 89022750
 Project: KMG - Barclay 4-27

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 B6C0202 - EPA 5030 (soil)

Matrix Spike Dup (B6C0202-MSD1)	Source: X603002-01			Prepared: 03/02/2016 Analyzed: 03/02/2016						
Benzene	0.123	0.002	mg/kg	0.100	0.006	117	71.8-126	1.09	11.3	
Toluene	0.142	0.002	"	0.100	0.025	117	65.1-130	0.765	15.4	
Ethylbenzene	0.108	0.002	"	0.100	0.002	107	62.2-130	2.92	19.6	
m,p-Xylene	0.216	0.004	"	0.200	0.005	106	46.5-137	3.18	19.2	
o-Xylene	0.105	0.002	"	0.100	0.002	104	54.2-134	3.71	17.9	
Surrogate: 1,2-Dichloroethane-d4	57.0		ug/kg	62.5		91.1	70-130			
Surrogate: Toluene-d8	63.0		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	61.2		"	62.5		98.0	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

John Cocroft
 Project Number: 014216045/WO# 89022750
 Project: KMG - Barclay 4-27

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 B6C0201 - EPA 3580

Blank (B6C0201-BLK1)

Prepared: 03/02/2016 Analyzed: 03/02/2016

Diesel (C10-C28)	ND	50	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	38		"	50.0		75.0	59-131			

LCS (B6C0201-BS1)

Prepared: 03/02/2016 Analyzed: 03/02/2016

Diesel (C10-C28)	920	50	mg/kg	1000		91.8	64-121			
Residual Range Organics (C28-C40)	930	200	"	1000		92.8	58-124			
Surrogate: o-Terphenyl	43		"	50.0		86.7	59-131			

Matrix Spike (B6C0201-MS1)

Source: X603002-01

Prepared: 03/02/2016 Analyzed: 03/02/2016

Diesel (C10-C28)	790	50	mg/kg	1000	47	74.7	53-125			
Residual Range Organics (C28-C40)	830	200	"	1000	240	58.6	47-133			
Surrogate: o-Terphenyl	41		"	50.0		81.3	59-131			

Matrix Spike Dup (B6C0201-MSD1)

Source: X603002-01

Prepared: 03/02/2016 Analyzed: 03/02/2016

Diesel (C10-C28)	830	50	mg/kg	1000	47	78.2	53-125	4.23	20	
Residual Range Organics (C28-C40)	980	200	"	1000	240	73.8	47-133	16.7	20	
Surrogate: o-Terphenyl	43		"	50.0		86.8	59-131			

Origins Laboratory, Inc.



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

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

John Cocroft
 Project Number: 014216045/WO# 89022750
 Project: KMG - Barclay 4-27

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 B6C0206 - NO PREP										
Duplicate (B6C0206-DUP1)		Source: X603014-05			Prepared: 03/02/2016 Analyzed: 03/02/2016					
pH	8.81		pH Units		8.77			0.455	25	
Batch B6C0207 - NO PREP										
Blank (B6C0207-BLK1)		Prepared: 03/02/2016 Analyzed: 03/02/2016								
Specific Conductance (EC)	0.00240		mmhos/cm							
Duplicate (B6C0207-DUP1)		Source: X603014-05			Prepared: 03/02/2016 Analyzed: 03/02/2016					
Specific Conductance (EC)	0.0530		mmhos/cm		0.0545			2.79	25	

Origins Laboratory, Inc.



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

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

John Cocroft
Project Number: 014216045/WO# 89022750
Project: KMG - Barclay 4-27

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 07, 2016

LT Environmental, Inc.

John Cocroft

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Barclay 4-27

Project Number - 014216045/WO# 890227

Attached are your analytical results for KMG - Barclay 4-27 received by Origins Laboratory, Inc. March 04, 2016. This project is associated with Origins project number X603071-01.

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

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

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

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

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

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



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

John Cocroft
Project Number: 014216045/WO# 89022750
Project: KMG - Barclay 4-27

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B03 @ 6'	X603071-01	Soil	March 4, 2016 14:55	03/04/2016 16:25
E02 @ 4'	X603071-02	Soil	March 4, 2016 15:00	03/04/2016 16:25

Origins Laboratory, Inc.



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

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

John Cocroft
 Project Number: 014216045/WO# 89022750
 Project: KMG - Barclay 4-27

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: **X603071**

Client: LTE

Client Project ID: Barclay 4-27

Checklist Completed by: Jeff Smith

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

Date/time completed: 3/4/12

Airbill #: NA

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

Cooler Number/Temperature: _____ / 4.1 °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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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.

JM Smith
 Reviewed by (Project Manager)

3/4/12
 Date/Time Reviewed

Origins Laboratory, Inc.



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

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

John Cocroft
 Project Number: 014216045/WO# 89022750
 Project: KMG - Barclay 4-27

B03 @ 6'
3/4/2016 2:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X603071-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	39	25	mg/kg	1	B6C0403	03/04/2016	03/04/2016	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	7.32	5.00	mg/kg	25	B6C0404	03/04/2016	03/04/2016	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	0.103	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "
 Surrogate: Toluene-d8 97.2 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.28		pH Units	1	B6C0407	03/04/2016	03/04/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.00910		mmhos/cm	"	B6C0408	"	03/04/2016	
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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

John Cocroft
 Project Number: 014216045/WO# 89022750
 Project: KMG - Barclay 4-27

E02 @ 4'
3/4/2016 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X603071-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	B6C0403	03/04/2016	03/04/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 73.1 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6C0404	03/04/2016	03/04/2016	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 96.7 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.49		pH Units	1	B6C0407	03/04/2016	03/04/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0106		mmhos/cm	"	B6C0408	"	03/04/2016	
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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

John Cocroft
 Project Number: 014216045/WO# 89022750
 Project: KMG - Barclay 4-27

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 B6C0404 - EPA 5030 (soil)

Blank (B6C0404-BLK1)

Prepared: 03/04/2016 Analyzed: 03/04/2016

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	69.9		ug/kg	62.5		112	70-130			
Surrogate: Toluene-d8	59.8		"	62.5		95.7	70-130			
Surrogate: 4-Bromofluorobenzene	64.8		"	62.5		104	70-130			

Origins Laboratory, Inc.



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

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

John Cocroft
 Project Number: 014216045/WO# 89022750
 Project: KMG - Barclay 4-27

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 B6C0404 - EPA 5030 (soil)

LCS (B6C0404-BS1)

Prepared: 03/04/2016 Analyzed: 03/04/2016

Benzene	0.112	0.002	mg/kg	0.100		112	77.1-124			
Toluene	0.107	0.002	"	0.100		107	74.5-128			
Ethylbenzene	0.110	0.002	"	0.100		110	66.4-127			
m,p-Xylene	0.221	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	64.3		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	61.2		"	62.5		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	65.1		"	62.5		104	70-130			

Origins Laboratory, Inc.



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

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

John Cocroft
 Project Number: 014216045/WO# 89022750
 Project: KMG - Barclay 4-27

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 B6C0404 - EPA 5030 (soil)

Matrix Spike (B6C0404-MS1)	Source: X603066-01			Prepared: 03/04/2016 Analyzed: 03/04/2016						
Benzene	0.111	0.002	mg/kg	0.100	ND	111	71.8-126			
Toluene	0.106	0.002	"	0.100	ND	106	65.1-130			
Ethylbenzene	0.109	0.002	"	0.100	ND	109	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	62.3		ug/kg	62.5		99.7	70-130			
Surrogate: Toluene-d8	61.6		"	62.5		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	64.3		"	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

John Cocroft
 Project Number: 014216045/WO# 89022750
 Project: KMG - Barclay 4-27

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 B6C0404 - EPA 5030 (soil)

Matrix Spike Dup (B6C0404-MSD1)	Source: X603066-01			Prepared: 03/04/2016 Analyzed: 03/04/2016						
Benzene	0.108	0.002	mg/kg	0.100	ND	108	71.8-126	3.14	11.3	
Toluene	0.103	0.002	"	0.100	ND	103	65.1-130	3.01	15.4	
Ethylbenzene	0.104	0.002	"	0.100	ND	104	62.2-130	4.91	19.6	
m,p-Xylene	0.210	0.004	"	0.200	ND	105	46.5-137	4.54	19.2	
o-Xylene	0.103	0.002	"	0.100	ND	103	54.2-134	4.45	17.9	
Surrogate: 1,2-Dichloroethane-d4	64.1		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	61.0		"	62.5		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	63.5		"	62.5		102	70-130			

Origins Laboratory, Inc.



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

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

John Cocroft
 Project Number: 014216045/WO# 89022750
 Project: KMG - Barclay 4-27

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 B6C0403 - EPA 3580

Blank (B6C0403-BLK1)

Prepared: 03/04/2016 Analyzed: 03/04/2016

Diesel (C10-C28)	ND	50	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	52		"	50.0		103	59-131			

LCS (B6C0403-BS1)

Prepared: 03/04/2016 Analyzed: 03/04/2016

Diesel (C10-C28)	1100	50	mg/kg	1000		109	64-121			
Residual Range Organics (C28-C40)	1100	200	"	1000		113	58-124			
Surrogate: o-Terphenyl	53		"	50.0		106	59-131			

Matrix Spike (B6C0403-MS1)

Source: X603066-01

Prepared: 03/04/2016 Analyzed: 03/04/2016

Diesel (C10-C28)	860	50	mg/kg	1000	ND	86.1	53-125			
Residual Range Organics (C28-C40)	870	200	"	1000	ND	86.9	47-133			
Surrogate: o-Terphenyl	42		"	50.0		83.0	59-131			

Matrix Spike Dup (B6C0403-MSD1)

Source: X603066-01

Prepared: 03/04/2016 Analyzed: 03/04/2016

Diesel (C10-C28)	1100	50	mg/kg	1000	ND	105	53-125	20.1	20	QR-02
Residual Range Organics (C28-C40)	1800	200	"	1000	ND	182	47-133	70.9	20	QM-07, QR-03
Surrogate: o-Terphenyl	56		"	50.0		112	59-131			

Origins Laboratory, Inc.



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

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

John Cocroft
 Project Number: 014216045/WO# 89022750
 Project: KMG - Barclay 4-27

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 B6C0407 - NO PREP										
Duplicate (B6C0407-DUP1)		Source: X603071-01			Prepared: 03/04/2016 Analyzed: 03/04/2016					
pH	7.32		pH Units		7.28			0.548	25	
Batch B6C0408 - NO PREP										
Blank (B6C0408-BLK1)		Prepared: 03/04/2016 Analyzed: 03/04/2016								
Specific Conductance (EC)	0.00200		mmhos/cm							
Duplicate (B6C0408-DUP1)		Source: X603071-01			Prepared: 03/04/2016 Analyzed: 03/04/2016					
Specific Conductance (EC)	0.00970		mmhos/cm		0.00910			6.38	25	

Origins Laboratory, Inc.



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

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

John Cocroft
Project Number: 014216045/WO# 89022750
Project: KMG - Barclay 4-27

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.

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.

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 08, 2016

LT Environmental, Inc.

John Cocroft

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Barclay 4-27

Project Number - 014216045/WO# 890227

Attached are your analytical results for KMG - Barclay 4-27 received by Origins Laboratory, Inc. March 07, 2016. This project is associated with Origins project number X603101-01.

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: 014216045/WO# 89022750
Project: KMG - Barclay 4-27

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N03 @ 4'	X603101-01	Soil	March 7, 2016 10:00	03/07/2016 15:17
S03 @ 4'	X603101-02	Soil	March 7, 2016 10:10	03/07/2016 15:17
E03 @ 4'	X603101-03	Soil	March 7, 2016 10:20	03/07/2016 15:17
B04 @ 6'	X603101-04	Soil	March 7, 2016 10:30	03/07/2016 15:17

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

John Cocroft
 Project Number: 014216045/WO# 89022750
 Project: KMG - Barclay 4-27

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 page () of ()

ORIGINS
 LABORATORY, INC

Client: LTE
 Address: 4600 W 60th AVE
ARVADA CO 80003
 Telephone Number: 303-433-9788
 Email Address: JOHN.COCROFT@LTENV.COM/sec 1st

Project Manager: John Cocroft
 Project Name: Barclay 4-27
 Project Number: 014216045
 Samples Collected By: Chad Ferris
WO # 89022750
APL Contract Sam LaRue

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	As Summ #	Other	G-DTEX	TPH (Gr. Dr.)	PH		EC
N03C4'	3/7/16	100	2	X				X				X	X	X	X	H/SAR 1
S03C4'	↓	1010	2	X				X				X	X	X	X	↓
E03C4'	↓	1020	2	X				X				X	X	X	X	↓
B04C6'	↓	1030	2	X				X				X	X	X	X	↓
																5
																6
																7
																8
																9
																10
Relinquished By: <u>CLZ</u>	Date: <u>3/7/16</u>	Time: <u>1517</u>														Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>
Relinquished By: <u>[Signature]</u>	Date: <u>3/7/16</u>	Time: <u>1517</u>														Date Results Needed: <u>3/8/16</u> by <u>0700</u>

Temp Received: 44.6

Origins Laboratory, Inc.

Jefe Pellegrini

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

John Cocroft
 Project Number: 014216045/WO# 89022750
 Project: KMG - Barclay 4-27

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

Sample Receipt Checklist

Origins Work Order: X603101 Client: LT Environmental
 Client Project ID: Barclay 4-27
 Checklist Completed by: Joe Henderson Shipped Via: HLS
 Date/time completed: 3/7/16 1519 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: ASA
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / 4.6 °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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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.

Reviewed by: [Signature] (Project Manager) Date/Time Reviewed: 03/07/16

Origins Laboratory, Inc.

Joe Pellegrini

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

John Cocroft
 Project Number: 014216045/WO# 89022750
 Project: KMG - Barclay 4-27

N03 @ 4'
3/7/2016 10:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X603101-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	B6C0704	03/07/2016	03/07/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 108 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6C0702	03/07/2016	03/07/2016	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "
Surrogate: Toluene-d8 95.0 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.39		pH Units	1	B6C0706	03/07/2016	03/07/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0141		mmhos/cm	"	B6C0707	03/07/2016	03/07/2016	
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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: 014216045/WO# 89022750
 Project: KMG - Barclay 4-27

S03 @ 4'
3/7/2016 10:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X603101-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	B6C0704	03/07/2016	03/07/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 116 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6C0702	03/07/2016	03/07/2016	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "
Surrogate: Toluene-d8 94.3 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.35		pH Units	1	B6C0706	03/07/2016	03/07/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.00940		mmhos/cm	"	B6C0707	03/07/2016	03/07/2016	
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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

John Cocroft
 Project Number: 014216045/WO# 89022750
 Project: KMG - Barclay 4-27

E03 @ 4'
3/7/2016 10:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X603101-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	B6C0704	03/07/2016	03/07/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 105 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6C0702	03/07/2016	03/07/2016	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 95.4 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.21		pH Units	1	B6C0706	03/07/2016	03/07/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0129		mmhos/cm	"	B6C0707	03/07/2016	03/07/2016	
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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

John Cocroft
 Project Number: 014216045/WO# 89022750
 Project: KMG - Barclay 4-27

B04 @ 6'
3/7/2016 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X603101-04 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	B6C0704	03/07/2016	03/07/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 96.9 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6C0702	03/07/2016	03/07/2016	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	0.170	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "
Surrogate: Toluene-d8 95.8 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.85		pH Units	1	B6C0706	03/07/2016	03/07/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0132		mmhos/cm	"	B6C0707	03/07/2016	03/07/2016	
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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

John Cocroft
 Project Number: 014216045/WO# 89022750
 Project: KMG - Barclay 4-27

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 B6C0702 - EPA 5030 (soil)

Blank (B6C0702-BLK1)

Prepared: 03/07/2016 Analyzed: 03/07/2016

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	72.5		ug/kg	62.5		116	70-130			
Surrogate: Toluene-d8	58.7		"	62.5		93.9	70-130			
Surrogate: 4-Bromofluorobenzene	64.7		"	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: 014216045/WO# 89022750
 Project: KMG - Barclay 4-27

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 B6C0702 - EPA 5030 (soil)

LCS (B6C0702-BS1)

Prepared: 03/07/2016 Analyzed: 03/07/2016

Benzene	0.101	0.002	mg/kg	0.100		101	77.1-124			
Toluene	0.091	0.002	"	0.100		90.6	74.5-128			
Ethylbenzene	0.088	0.002	"	0.100		88.0	66.4-127			
m,p-Xylene	0.177	0.004	"	0.200		88.5	76.6-124			
o-Xylene	0.088	0.002	"	0.100		88.3	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	67.5		ug/kg	62.5		108	70-130			
Surrogate: Toluene-d8	59.1		"	62.5		94.6	70-130			
Surrogate: 4-Bromofluorobenzene	63.6		"	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: 014216045/WO# 89022750
 Project: KMG - Barclay 4-27

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 B6C0702 - EPA 5030 (soil)

Matrix Spike (B6C0702-MS1)	Source: X603091-01			Prepared: 03/07/2016 Analyzed: 03/07/2016						
Benzene	0.131	0.002	mg/kg	0.100	ND	131	71.8-126			QM-07
Toluene	0.124	0.002	"	0.100	ND	124	65.1-130			
Ethylbenzene	0.147	0.002	"	0.100	ND	147	62.2-130			QM-07
m,p-Xylene	0.292	0.004	"	0.200	ND	146	46.5-137			QM-07
o-Xylene	0.143	0.002	"	0.100	ND	143	54.2-134			QM-07
Surrogate: 1,2-Dichloroethane-d4	67.1		ug/kg	62.5		107	70-130			
Surrogate: Toluene-d8	62.2		"	62.5		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	76.6		"	62.5		123	70-130			

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

John Cocroft
 Project Number: 014216045/WO# 89022750
 Project: KMG - Barclay 4-27

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 B6C0702 - EPA 5030 (soil)

Matrix Spike Dup (B6C0702-MSD1)	Source: X603091-01			Prepared: 03/07/2016 Analyzed: 03/07/2016						
Benzene	0.111	0.002	mg/kg	0.100	ND	111	71.8-126	16.8	11.3	QR-03
Toluene	0.102	0.002	"	0.100	ND	102	65.1-130	19.8	15.4	QR-03
Ethylbenzene	0.108	0.002	"	0.100	ND	108	62.2-130	30.6	19.6	QR-03
m,p-Xylene	0.213	0.004	"	0.200	ND	106	46.5-137	31.1	19.2	QR-03
o-Xylene	0.106	0.002	"	0.100	ND	106	54.2-134	29.7	17.9	QR-03
Surrogate: 1,2-Dichloroethane-d4	66.5		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	61.3		"	62.5		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	70.7		"	62.5		113	70-130			

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216045/WO# 89022750
 Project: KMG - Barclay 4-27

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 B6C0704 - EPA 3580

Blank (B6C0704-BLK1)

Prepared: 03/07/2016 Analyzed: 03/07/2016

Diesel (C10-C28)	ND	50	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	48		"	50.0		96.1	59-131			

LCS (B6C0704-BS1)

Prepared: 03/07/2016 Analyzed: 03/07/2016

Diesel (C10-C28)	860	50	mg/kg	1000		86.5	64-121			
Residual Range Organics (C28-C40)	850	200	"	1000		85.3	58-124			
Surrogate: o-Terphenyl	46		"	50.0		91.9	59-131			

Matrix Spike (B6C0704-MS1)

Source: X603091-01

Prepared: 03/07/2016 Analyzed: 03/07/2016

Diesel (C10-C28)	1400	50	mg/kg	1000	300	108	53-125			
Residual Range Organics (C28-C40)	1200	200	"	1000	95	110	47-133			
Surrogate: o-Terphenyl	50		"	50.0		100	59-131			

Matrix Spike Dup (B6C0704-MSD1)

Source: X603091-01

Prepared: 03/07/2016 Analyzed: 03/07/2016

Diesel (C10-C28)	1300	50	mg/kg	1000	300	99.0	53-125	8.62	20	
Residual Range Organics (C28-C40)	1100	200	"	1000	95	103	47-133	6.74	20	
Surrogate: o-Terphenyl	52		"	50.0		104	59-131			

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216045/WO# 89022750
 Project: KMG - Barclay 4-27

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 B6C0706 - NO PREP										
Duplicate (B6C0706-DUP1)		Source: X603101-01			Prepared: 03/07/2016 Analyzed: 03/07/2016					
pH	7.41		pH Units		7.39			0.270	25	
Batch B6C0707 - NO PREP										
Blank (B6C0707-BLK1)					Prepared: 03/07/2016 Analyzed: 03/07/2016					
Specific Conductance (EC)	0.00330		mmhos/cm							
Duplicate (B6C0707-DUP1)		Source: X603101-01			Prepared: 03/07/2016 Analyzed: 03/07/2016					
Specific Conductance (EC)	0.0151		mmhos/cm		0.0141			6.85	25	

Origins Laboratory, Inc.



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

John Cocroft
Project Number: 014216045/WO# 89022750
Project: KMG - Barclay 4-27

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.



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