

TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
AUGUST LAMBRECHT GU #2
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
GW01	9/8/2017	18.7	18.6	2.28	16.5	4	NA
GW02	9/15/2017	<4.00	<4.00	<4.00	<4.00	4	NA
MW01	8/15/2018	10.8	<1.00	<1.00	<1.00	5.67	94.76
	11/5/2018	9.21	<1.00	<1.00	<1.00	5.55	94.88
	2/12/2019	4.76	<1.00	<1.00	<1.00	6.20	94.23
	5/3/2019	1.34	<1.00	<1.00	<1.00	6.03	94.40
	8/6/2019	17.0	<1.00	<1.00	<1.00	5.92	94.51
MW02	8/15/2018	<1.00	<1.00	<1.00	<1.00	6.29	91.64
	11/5/2018	<1.00	<1.00	<1.00	<1.00	5.32	92.61
	2/12/2019	<1.00	<1.00	<1.00	<1.00	7.26	90.67
	5/3/2019	<1.00	<1.00	<1.00	<1.00	7.11	90.82
	8/6/2019	<1.00	<1.00	<1.00	<1.00	6.40	91.53
MW03	8/15/2018	<1.00	<1.00	<1.00	<1.00	3.90	94.90
	11/5/2018	<1.00	<1.00	<1.00	<1.00	3.93	94.87
	2/12/2019	<1.00	<1.00	<1.00	<1.00	5.37	93.43
	5/3/2019	<1.00	<1.00	<1.00	<1.00	5.57	93.23
	8/6/2019	<1.00	<1.00	<1.00	<1.00	4.84	93.96
MW04	8/15/2018	<1.00	<1.00	<1.00	<1.00	6.00	92.78
	11/5/2018	<1.00	<1.00	<1.00	<1.00	5.90	92.88
	2/12/2019	<1.00	<1.00	<1.00	<1.00	6.56	92.22
	5/3/2019	<1.00	<1.00	<1.00	<1.00	6.36	92.42
	8/6/2019	<1.00	<1.00	<1.00	<1.00	6.43	92.35
MW05	8/15/2018	<1.00	<1.00	<1.00	<1.00	4.52	93.65
	11/5/2018	<1.00	<1.00	<1.00	<1.00	4.29	93.88
	2/12/2019	<1.00	<1.00	<1.00	<1.00	5.48	92.69
	5/3/2019	<1.00	<1.00	<1.00	<1.00	5.55	92.62
	8/6/2019	<1.00	<1.00	<1.00	<1.00	5.11	93.06
MW06	8/15/2018	<1.00	<1.00	<1.00	<1.00	5.57	91.26
	11/5/2018	<1.00	<1.00	<1.00	<1.00	5.48	91.35
	2/12/2019	<1.00	<1.00	<1.00	<1.00	6.36	90.47
	5/3/2019	<1.00	<1.00	<1.00	<1.00	6.34	90.49
	8/6/2019	<1.00	<1.00	<1.00	<1.00	5.86	90.97



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AUGUST LAMBRECHT GU #2
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Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		

Notes: COGCC - Colorado Oil and Gas Conservation Commission

ft bgs - feet below ground surface

NA - not analyzed/not available

NM - not measured

BOLD = Analytical result is in exceedance of COGCC Table 910-1 groundwater standards.

µg/L - micrograms per liter

< - less than laboratory reporting limit

Excavation groundwater depth is approximate



November 08, 2018

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - August Lambrecht GU #2 Project Number - 014213014/WO #883236

Attached are your analytical results for KMG - August Lambrecht GU #2 received by Origins Laboratory, Inc. November 05, 2018. This project is associated with Origins project number Y811078-01.

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

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

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

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

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

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



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

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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y811078-01	Water	November 5, 2018 13:00	11/05/2018 16:35
MW02	Y811078-02	Water	November 5, 2018 13:05	11/05/2018 16:35
MW03	Y811078-03	Water	November 5, 2018 13:10	11/05/2018 16:35
MW04	Y811078-04	Water	November 5, 2018 13:15	11/05/2018 16:35
MW05	Y811078-05	Water	November 5, 2018 13:20	11/05/2018 16:35
MW06	Y811078-06	Water	November 5, 2018 13:25	11/05/2018 16:35

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

ORIGINS
LABORATORY, INC

Y411074

1725 Elk Place, Denver, CO 80211
Laboratory # - 303.433.1322

Client: LT Environmental, Inc. **Project Manager:** John Cocroft
Project: KMG - August Lambrecht GU #2 **Project Number:** 014213014/WO #88323637

Number	Sample Identification	Matrix	Sample Date	Sample Time	Sampled By	Container	Qty	Analyses
01-001	MMW01	Water	11-5-18	1300	GS	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
02-001	MMW02	Water		1305		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
03-001	MMW03	Water		1310		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
04-001	MMW04	Water		1315		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
05-001	MMW05	Water		1320		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
06-001	MMW06	Water		1325		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C

Relinquished By: Date / Time: 11-5-18 1635
Received By: Date / Time: 11-5-18 1635

Temperature on Receipt: 4.4
Turn Around Time: ☐ 72-hr ☒ Standard ☐ 24-hr ☐ 48-hr

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y811078

Client: LTE

Client Project ID: KMG - August Lambrecht 60 #

Checklist Completed by: JG

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

Date/time completed: 11 / 6 / 2018

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 4.4 °C / °C / °C / °C (Describe)

Thermometer ID: T003

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

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 11/7/18

Origins Laboratory, Inc.

[Signature]

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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

MW01

11/5/2018 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y811078-01 (Water)

BTEX by EPA 8260C

Benzene	9.21	1.00	ug/L	1	B8K0609	JTD	11/06/2018	11/07/2018	
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"
Surrogate: Toluene-d8	100 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	99.1 %	84-114			"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

MW02

11/5/2018 1:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y811078-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K0609	JTD	11/06/2018	11/07/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121	"	"	"
Surrogate: Toluene-d8	100 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.1 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

MW03

11/5/2018 1:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y811078-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K0609	JTD	11/06/2018	11/07/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.0 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

MW04

11/5/2018 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811078-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K0609	JTD	11/06/2018	11/07/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121	"	"	"
Surrogate: Toluene-d8	99.2 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.7 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

MW05

11/5/2018 1:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y811078-05 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K0609	JTD	11/06/2018	11/07/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121	"	"	"
Surrogate: Toluene-d8	99.3 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	97.1 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

MW06

11/5/2018 1:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811078-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K0609	JTD	11/06/2018	11/07/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121	"	"	"
Surrogate: Toluene-d8	99.9 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.4 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

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 B8K0609 - EPA 5030B (Water)

Blank (B8K0609-BLK1)

Prepared: 11/06/2018 Analyzed: 11/06/2018

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5	100		84-121			
Surrogate: Toluene-d8	63		"	62.5	101		85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5	98.6		84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

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 B8K0609 - EPA 5030B (Water)

LCS (B8K0609-BS1)

Prepared: 11/06/2018 Analyzed: 11/06/2018

Benzene	42.2	1.00	ug/L	50.0		84.4	73.3-129
Toluene	44.0	1.00	"	50.0		88.0	76.2-123
Ethylbenzene	45.4	1.00	"	50.0		90.9	73.6-130
m,p-Xylene	93.3	2.00	"	100		93.3	76.1-126
o-Xylene	45.4	1.00	"	50.0		90.9	76.6-124
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		96.9	84-121
Surrogate: Toluene-d8	63		"	62.5		100	85-115
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.8	84-114

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8K0609 - EPA 5030B (Water)

Matrix Spike (B8K0609-MS1)		Source: Y811061-01			Prepared: 11/06/2018 Analyzed: 11/07/2018					
Benzene	49.7	1.00	ug/L	50.0	1.17	97.1	74-130			
Toluene	51.4	1.00	"	50.0	0.130	103	73-131			
Ethylbenzene	119	1.00	"	50.0	146	NR	76-132			QM-07
m,p-Xylene	111	2.00	"	100	ND	111	69-139			
o-Xylene	52.3	1.00	"	50.0	0.220	104	74-131			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.0	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.0	84-114			

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Brian Sulzberger
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Project: KMG - August Lambrecht GU #2

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 B8K0609 - EPA 5030B (Water)

Matrix Spike Dup (B8K0609-MSD1)		Source: Y811061-01			Prepared: 11/06/2018 Analyzed: 11/07/2018					
Benzene	50.7	1.00	ug/L	50.0	1.17	99.0	74-130	1.93	20	
Toluene	52.1	1.00	"	50.0	0.130	104	73-131	1.29	20	
Ethylbenzene	122	1.00	"	50.0	146	NR	76-132	2.45	20	QM-07
m,p-Xylene	113	2.00	"	100	ND	113	69-139	2.03	20	
o-Xylene	52.7	1.00	"	50.0	0.220	105	74-131	0.761	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.6	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.7	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.7	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

Notes and Definitions

U Sample is Non-Detect.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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



February 14, 2019

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - August Lambrecht GU #2 Project Number - 014213014/WO #883236

Attached are your analytical results for KMG - August Lambrecht GU #2 received by Origins Laboratory, Inc. February 12, 2019. This project is associated with Origins project number Y902153-01.

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

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

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

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

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

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



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

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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y902153-01	Water	February 12, 2019 13:47	02/12/2019 15:20
MW02	Y902153-02	Water	February 12, 2019 13:21	02/12/2019 15:20
MW03	Y902153-03	Water	February 12, 2019 14:01	02/12/2019 15:20
MW04	Y902153-04	Water	February 12, 2019 13:10	02/12/2019 15:20
MW05	Y902153-05	Water	February 12, 2019 14:12	02/12/2019 15:20
MW06	Y902153-06	Water	February 12, 2019 13:32	02/12/2019 15:20

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

ORIGINS
LABORATORY, INC

1/9/2015

1725 Elk Place, Denver, CO 80211
Laboratory # - 303.433.1322

Client: LT Environmental, Inc.		Project Manager: Brian Sulzberger					
Project: KMG - August Lambrecht GU #2		Project Number: 014213014/WO #88323637					
Number	Sample Identification	Matrix	Sample Date	Sample Time	Container	Qty	Analyses
01-001	MW01	Water	2/12/19	13:47	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
02-001	MW02	Water	2/12/19	13:21	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
03-001	MW03	Water	2/12/19	14:01	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
04-001	MW04	Water	2/12/19	13:10	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
05-001	MW05	Water	2/12/19	14:12	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
06-001	MW06	Water	2/12/19	13:32	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C

Don Sulzberger 2/12/19 1520
Relinquished By Date / Time
Received By Date / Time

Temperature on Receipt: 11.9
Turn Around Time:
Same Day: ☐ 72-hr: ☐ Standard: ☒
24-hr: ☐

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y902153

Client: LTE

Client Project ID: KMG - August Lambrecht GU #2

Checklist Completed by: JG

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

Date/time completed: 2/13/2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 11.9 °C / °C / °C / °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⁾ ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Same Day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

2/14/19
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

MW01

2/12/2019 1:47:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y902153-01 (Water)

BTEX by EPA 8260C

Benzene	4.76	1.00	ug/L	1	B9B1303	KDK	02/13/2019	02/13/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	84-121			"	"	"
Surrogate: Toluene-d8	101 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	91.5 %	84-114			"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

MW02

2/12/2019 1:21:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y902153-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9B1303	KDK	02/13/2019	02/13/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121	"	"	"
Surrogate: Toluene-d8	103 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.3 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

MW03

2/12/2019 2:01:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y902153-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9B1303	KDK	02/13/2019	02/13/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.4 %	84-121	"	"	"
Surrogate: Toluene-d8	102 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.0 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

MW04

2/12/2019 1:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y902153-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9B1303	KDK	02/13/2019	02/13/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.9 %	84-121	"	"	"
Surrogate: Toluene-d8	100 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

MW05

2/12/2019 2:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y902153-05 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9B1303	KDK	02/13/2019	02/13/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.2 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

MW06

2/12/2019 1:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y902153-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9B1303	KDK	02/13/2019	02/13/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.7 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9B1303 - EPA 5030B (Water)										
Blank (B9B1303-BLK1)					Prepared: 02/13/2019 Analyzed: 02/13/2019					
Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.1	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.2	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

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 B9B1303 - EPA 5030B (Water)

Blank (B9B1303-BLK2)

Prepared: 02/13/2019 Analyzed: 02/13/2019

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5	101		84-121			
Surrogate: Toluene-d8	63		"	62.5	100		85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5	101		84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

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 B9B1303 - EPA 5030B (Water)

LCS (B9B1303-BS1)

Prepared: 02/13/2019 Analyzed: 02/13/2019

Benzene	48.6	1.00	ug/L	50.0		97.1	73.3-129			
Toluene	48.2	1.00	"	50.0		96.5	76.2-123			
Ethylbenzene	46.9	1.00	"	50.0		93.8	73.6-130			
m,p-Xylene	94.0	2.00	"	100		94.0	76.1-126			
o-Xylene	46.9	1.00	"	50.0		93.7	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.6	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.6	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

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 B9B1303 - EPA 5030B (Water)

LCS (B9B1303-BS2)

Prepared: 02/13/2019 Analyzed: 02/13/2019

Benzene	52.4	1.00	ug/L	50.0		105	73.3-129			
Toluene	53.4	1.00	"	50.0		107	76.2-123			
Ethylbenzene	51.3	1.00	"	50.0		103	73.6-130			
m,p-Xylene	102	2.00	"	100		102	76.1-126			
o-Xylene	51.8	1.00	"	50.0		104	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.3	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.4	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

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 B9B1303 - EPA 5030B (Water)

Matrix Spike (B9B1303-MS1)		Source: Y902150-02			Prepared: 02/13/2019 Analyzed: 02/13/2019					
Benzene	55.6	1.00	ug/L	50.0	ND	111	74-130			
Toluene	55.9	1.00	"	50.0	ND	112	73-131			
Ethylbenzene	52.5	1.00	"	50.0	ND	105	76-132			
m,p-Xylene	105	2.00	"	100	ND	105	69-139			
o-Xylene	52.3	1.00	"	50.0	ND	105	74-131			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.8	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.7	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		105	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

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 B9B1303 - EPA 5030B (Water)

Matrix Spike (B9B1303-MS2)		Source: Y902150-03			Prepared: 02/13/2019 Analyzed: 02/13/2019					
Benzene	54.2	1.00	ug/L	50.0	ND	108	74-130			
Toluene	54.6	1.00	"	50.0	ND	109	73-131			
Ethylbenzene	52.1	1.00	"	50.0	ND	104	76-132			
m,p-Xylene	105	2.00	"	100	ND	105	69-139			
o-Xylene	52.0	1.00	"	50.0	ND	104	74-131			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		95.1	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.8	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

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 B9B1303 - EPA 5030B (Water)

Matrix Spike Dup (B9B1303-MSD1)		Source: Y902150-02			Prepared: 02/13/2019 Analyzed: 02/13/2019					
Benzene	54.8	1.00	ug/L	50.0	ND	110	74-130	1.38	20	
Toluene	55.6	1.00	"	50.0	ND	111	73-131	0.413	20	
Ethylbenzene	52.1	1.00	"	50.0	ND	104	76-132	0.860	20	
m,p-Xylene	104	2.00	"	100	ND	104	69-139	0.935	20	
o-Xylene	52.1	1.00	"	50.0	ND	104	74-131	0.249	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.2	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

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 B9B1303 - EPA 5030B (Water)

Matrix Spike Dup (B9B1303-MSD2)		Source: Y902150-03			Prepared: 02/13/2019 Analyzed: 02/13/2019					
Benzene	54.2	1.00	ug/L	50.0	ND	108	74-130	0.0185	20	
Toluene	54.6	1.00	"	50.0	ND	109	73-131	0.0916	20	
Ethylbenzene	51.0	1.00	"	50.0	ND	102	76-132	2.25	20	
m,p-Xylene	103	2.00	"	100	ND	103	69-139	1.90	20	
o-Xylene	51.0	1.00	"	50.0	ND	102	74-131	1.92	20	
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		95.1	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.7	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

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.



May 08, 2019

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - August Lambrecht GU #2 Project Number - 014213014/WO #883236

Attached are your analytical results for KMG - August Lambrecht GU #2 received by Origins Laboratory, Inc. May 03, 2019. This project is associated with Origins project number Y905054-01.

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

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

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

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

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

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



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

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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y905054-01	Water	May 3, 2019 9:38	05/03/2019 16:00
MW02	Y905054-02	Water	May 3, 2019 9:45	05/03/2019 16:00
MW03	Y905054-03	Water	May 3, 2019 10:10	05/03/2019 16:00
MW04	Y905054-04	Water	May 3, 2019 9:30	05/03/2019 16:00
MW05	Y905054-05	Water	May 3, 2019 10:05	05/03/2019 16:00
MW06	Y905054-06	Water	May 3, 2019 9:53	05/03/2019 16:00

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

ORIGINS
LABORATORY, INC

Y905054

1725 Elk Place, Denver, CO 80211
Laboratory # - 303.433.1322

Client: LT Environmental, Inc.		Project Manager: Brian Sulzberger					
Project: KMG - August Lambrecht GU #2		Project Number: 014213014/WO #88323637					
Number	Sample Identification	Matrix	Sample Date	Sample Time	Container	Qty	Analyses
01-001	MW01	Water	05/18/2019	9:38	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
02-001	MW02	Water		9:45	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
03-001	MW03	Water		10:10	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
04-001	MW04	Water		9:30	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
05-001	MW05	Water		10:05	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
06-001	MW06	Water		9:53	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C

Temperature on Receipt: 3.7
Turn Around Time:
Same Day ☐ 72-hr ☐
24-hr ☐ Standard ☒
48-hr ☐

Relinquished By: [Signature]
Date / Time: 5/13/19 1600
Received By: [Signature]
Date / Time: [Blank]

Relinquished By: [Signature]
Date / Time: 05/13/2019 1555
Received By: [Signature]
Date / Time: [Blank]

Origins Laboratory, Inc.

Jefe Pellegrini

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

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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y 905054

Client: LTE

Client Project ID: August Lambrecht 60 #2

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 5 / 6 / 2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 3.3 °C / °C / °C / °C (Describe)

Thermometer ID: T003

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

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

Reviewed by (Project Manager) ap

Date/Time Reviewed 5/7/19

Origins Laboratory, Inc.

Jefe Pellegrini

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

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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

MW01

5/3/2019 9:38:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905054-01 (Water)

BTEX by EPA 8260D

Benzene	1.34	1.00	ug/L	1	B9E0605	KDK	05/06/2019	05/07/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"
Surrogate: Toluene-d8	109 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

MW02

5/3/2019 9:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905054-02 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9E0605	KDK	05/06/2019	05/07/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"
Surrogate: Toluene-d8	107 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

MW03

5/3/2019 10:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905054-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9E0605	KDK	05/06/2019	05/07/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130	"	"	"
Surrogate: Toluene-d8	106 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

MW04

5/3/2019 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905054-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9E0605	KDK	05/06/2019	05/07/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130	"	"	"
Surrogate: Toluene-d8	109 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

MW05

5/3/2019 10:05:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905054-05 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9E0605	KDK	05/06/2019	05/07/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130	"	"	"
Surrogate: Toluene-d8	108 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

MW06

5/3/2019 9:53:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905054-06 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9E0605	KDK	05/06/2019	05/07/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130	"	"	"
Surrogate: Toluene-d8	109 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	97.9 %	70-130	"	"	"

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9E0605 - EPA 5030B (Water)

Blank (B9E0605-BLK1)

Prepared: 05/06/2019 Analyzed: 05/06/2019

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5	95.3	70-130				
Surrogate: Toluene-d8	55		"	62.5	88.4	70-130				
Surrogate: 4-Bromofluorobenzene	61		"	62.5	97.6	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.

Jen Pellegrini For Noelle Doyle Mathis, President

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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9E0605 - EPA 5030B (Water)

Blank (B9E0605-BLK2)

Prepared: 05/06/2019 Analyzed: 05/06/2019

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5	101	70-130				
Surrogate: Toluene-d8	57		"	62.5	90.4	70-130				
Surrogate: 4-Bromofluorobenzene	60		"	62.5	96.6	70-130				

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9E0605 - EPA 5030B (Water)

LCS (B9E0605-BS1)

Prepared: 05/06/2019 Analyzed: 05/06/2019

Benzene	46.0	1.00	ug/L	50.0		91.9	70-130			
Toluene	46.0	1.00	"	50.0		92.0	70-130			
Ethylbenzene	45.0	1.00	"	50.0		90.1	70-130			
m,p-Xylene	98.7	2.00	"	100		98.7	70-130			
o-Xylene	45.4	1.00	"	50.0		90.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	66		"	62.5		106	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9E0605 - EPA 5030B (Water)

LCS (B9E0605-BS2)

Prepared: 05/06/2019 Analyzed: 05/06/2019

Benzene	50.6	1.00	ug/L	50.0		101	70-130			
Toluene	52.3	1.00	"	50.0		105	70-130			
Ethylbenzene	47.8	1.00	"	50.0		95.6	70-130			
m,p-Xylene	94.5	2.00	"	100		94.5	70-130			
o-Xylene	45.9	1.00	"	50.0		91.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		90.9	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	70-130			

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9E0605 - EPA 5030B (Water)

Matrix Spike (B9E0605-MS1)		Source: Y905054-01			Prepared: 05/06/2019 Analyzed: 05/06/2019					
Benzene	60.9	1.00	ug/L	50.0	1.34	119	70-130			
Toluene	52.9	1.00	"	50.0	ND	106	70-130			
Ethylbenzene	50.0	1.00	"	50.0	ND	100	70-130			
m,p-Xylene	101	2.00	"	100	0.270	100	70-130			
o-Xylene	50.0	1.00	"	50.0	0.230	99.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.4	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9E0605 - EPA 5030B (Water)

Matrix Spike (B9E0605-MS2)		Source: Y905054-02			Prepared: 05/06/2019 Analyzed: 05/06/2019					
Benzene	50.7	1.00	ug/L	50.0	ND	101	70-130			
Toluene	53.7	1.00	"	50.0	ND	107	70-130			
Ethylbenzene	48.6	1.00	"	50.0	0.080	97.0	70-130			
m,p-Xylene	95.4	2.00	"	100	ND	95.4	70-130			
o-Xylene	46.9	1.00	"	50.0	ND	93.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	67		"	62.5		108	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9E0605 - EPA 5030B (Water)

Matrix Spike Dup (B9E0605-MSD1)		Source: Y905054-01			Prepared: 05/06/2019 Analyzed: 05/06/2019					
Benzene	58.3	1.00	ug/L	50.0	1.34	114	70-130	4.43	20	
Toluene	51.8	1.00	"	50.0	ND	104	70-130	2.08	20	
Ethylbenzene	46.9	1.00	"	50.0	ND	93.8	70-130	6.52	20	
m,p-Xylene	91.7	2.00	"	100	0.270	91.4	70-130	9.36	20	
o-Xylene	45.3	1.00	"	50.0	0.230	90.1	70-130	9.89	20	
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		90.7	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9E0605 - EPA 5030B (Water)										
Matrix Spike Dup (B9E0605-MSD2)		Source: Y905054-02			Prepared: 05/06/2019 Analyzed: 05/06/2019					
Benzene	53.0	1.00	ug/L	50.0	ND	106	70-130	4.32	20	
Toluene	53.8	1.00	"	50.0	ND	108	70-130	0.223	20	
Ethylbenzene	46.3	1.00	"	50.0	0.080	92.4	70-130	4.85	20	
m,p-Xylene	92.4	2.00	"	100	ND	92.4	70-130	3.26	20	
o-Xylene	45.2	1.00	"	50.0	ND	90.3	70-130	3.78	20	
Surrogate: 1,2-Dichloroethane-d4	68		"	62.5		108	70-130			
Surrogate: Toluene-d8	68		"	62.5		109	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.4	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

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.



August 09, 2019

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - August Lambrecht GU #2 Project Number - 014213014/WO #883236

Attached are your analytical results for KMG - August Lambrecht GU #2 received by Origins Laboratory, Inc. August 06, 2019. This project is associated with Origins project number Y908080-01.

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

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

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

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

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

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



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

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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y908080-01	Water	August 6, 2019 14:38	08/06/2019 16:08
MW02	Y908080-02	Water	August 6, 2019 14:53	08/06/2019 16:08
MW03	Y908080-03	Water	August 6, 2019 14:45	08/06/2019 16:08
MW04	Y908080-04	Water	August 6, 2019 14:31	08/06/2019 16:08
MW05	Y908080-05	Water	August 6, 2019 15:07	08/06/2019 16:08
MW06	Y908080-06	Water	August 6, 2019 15:01	08/06/2019 16:08

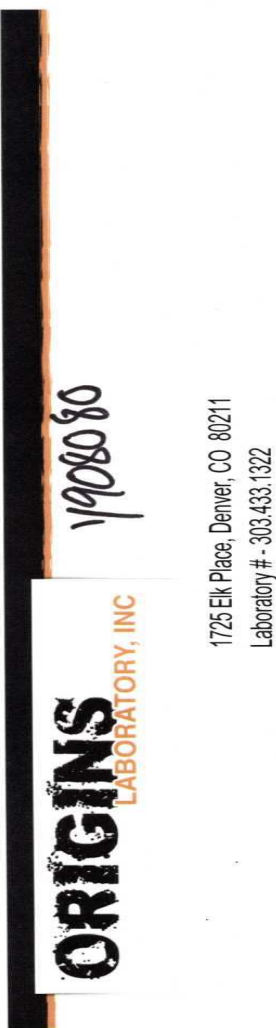
Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2



Client: LT Environmental, Inc. Project Manager: Brian Sulzberger
Project: KMG - August Lambrecht GU #2 Project Number: 014213014/WO #88323637

Number	Sample Identification	Matrix	Sample Date	Sample Time	Sampled By	Container	Qty	Analyses
01-001	MM01	Water	08/16/2019	1438	HTG	01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C
02-001	MM02	Water		1453		01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C
03-001	MM03	Water		1445		01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C
04-001	MM04	Water		1431		01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C
05-001	MM05	Water		1507		01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C
06-001	MM06	Water		1501		01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C

Relinquished By: Heather Filbert Date / Time: 08/16/2019 1605
Received By: _____ Date / Time: _____
Relinquished By: [Signature] Date / Time: 8/19/2019
Received By: _____ Date / Time: _____
Temperature on Receipt: 7.6
Turn Around Time: ☐ Same Day ☐ 72-hr ☒ Standard

Origins Laboratory, Inc.

Jefe Pellegrini

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

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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y908080

Client: LTE

Client Project ID: August Lambrecht GU #2

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 8/7/2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 8-6 °C 1 / 1 °C 1 / 1 °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⁾ ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Same Day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> 1/4 inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄ / (pH > 10 for samples preserved with Na ₂ CO ₃ +NaOH, ZnAc+NaOH).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) JG

8/8/19
Date/Time Reviewed

Origins Laboratory, Inc.

Jen Pellegrini

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

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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

MW01

8/6/2019 2:38:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y908080-01 (Water)

BTEX by EPA 8260D

Benzene	17.0	1.00	ug/L	1	B9H0702	KDK	08/07/2019	08/08/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	89.9 %	70-130			"	"	"
Surrogate: Toluene-d8	99.1 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	113 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

MW02

8/6/2019 2:53:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908080-02 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H0702	KDK	08/07/2019	08/08/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.5 %	70-130	"	"	"
Surrogate: Toluene-d8	99.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	114 %	70-130	"	"	"

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

MW03

8/6/2019 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908080-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H0702	KDK	08/07/2019	08/08/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.0 %	70-130	"	"	"
Surrogate: Toluene-d8	99.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	115 %	70-130	"	"	"

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

MW04

8/6/2019 2:31:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y908080-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H0702	KDK	08/07/2019	08/08/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.5 %	70-130	"	"	"
Surrogate: Toluene-d8	98.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	115 %	70-130	"	"	"

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

MW05

8/6/2019 3:07:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y908080-05 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H0702	KDK	08/07/2019	08/08/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.0 %	70-130	"	"	"
Surrogate: Toluene-d8	99.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	113 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

MW06

8/6/2019 3:01:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y908080-06 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H0702	KDK	08/07/2019	08/08/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.0 %	70-130	"	"	"
Surrogate: Toluene-d8	99.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	115 %	70-130	"	"	"

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9H0702 - EPA 5030B (Water)

Blank (B9H0702-BLK1)

Prepared: 08/07/2019 Analyzed: 08/07/2019

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5	90.7	70-130				
Surrogate: Toluene-d8	62		"	62.5	99.8	70-130				
Surrogate: 4-Bromofluorobenzene	71		"	62.5	114	70-130				

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9H0702 - EPA 5030B (Water)

LCS (B9H0702-BS1)

Prepared: 08/07/2019 Analyzed: 08/07/2019

Benzene	52.4	1.00	ug/L	50.0		105	70-130			
Toluene	49.4	1.00	"	50.0		98.9	70-130			
Ethylbenzene	47.3	1.00	"	50.0		94.6	70-130			
m,p-Xylene	93.0	2.00	"	100		93.0	70-130			
o-Xylene	49.4	1.00	"	50.0		98.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	55		"	62.5		87.8	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	70		"	62.5		111	70-130			

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9H0702 - EPA 5030B (Water)

Matrix Spike (B9H0702-MS1)		Source: Y908080-01			Prepared: 08/07/2019 Analyzed: 08/08/2019					
Benzene	64.2	1.00	ug/L	50.0	17.0	94.4	70-130			
Toluene	48.1	1.00	"	50.0	ND	96.2	70-130			
Ethylbenzene	46.4	1.00	"	50.0	0.120	92.5	70-130			
m,p-Xylene	91.9	2.00	"	100	0.340	91.6	70-130			
o-Xylene	48.8	1.00	"	50.0	0.390	96.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	55		"	62.5		87.4	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	71		"	62.5		114	70-130			

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9H0702 - EPA 5030B (Water)

Matrix Spike Dup (B9H0702-MSD1)		Source: Y908080-01			Prepared: 08/07/2019 Analyzed: 08/08/2019					
Benzene	69.1	1.00	ug/L	50.0	17.0	104	70-130	7.26	20	
Toluene	51.9	1.00	"	50.0	ND	104	70-130	7.56	20	
Ethylbenzene	50.0	1.00	"	50.0	0.120	99.7	70-130	7.56	20	
m,p-Xylene	99.2	2.00	"	100	0.340	98.8	70-130	7.57	20	
o-Xylene	51.8	1.00	"	50.0	0.390	103	70-130	6.06	20	
Surrogate: 1,2-Dichloroethane-d4	54		"	62.5		87.1	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	70		"	62.5		112	70-130			

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 014213014/WO #88323637
Project: KMG - August Lambrecht GU #2

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.