

TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
CAMP 13-19A
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	12/10/2019	37.8	<4.00	4.44	<4.00	5	NA
GW02	12/13/2019	<4.00	<4.00	<4.00	<4.00	5	NA
MW01	8/28/2020	<1.00	<1.00	<1.00	<1.00	4.79	95.51
MW02	8/28/2020	<1.00	<1.00	<1.00	<1.00	5.55	95.63
MW03	8/28/2020	<1.00	<1.00	<1.00	<1.00	4.75	95.41
MW04	8/28/2020	<1.00	<1.00	<1.00	<1.00	4.51	95.28
MW05	8/28/2020	<1.00	<1.00	<1.00	<1.00	4.40	95.17
MW06	8/28/2020	<1.00	<1.00	<1.00	<1.00	5.02	95.43
MW07	8/28/2020	<1.00	<1.00	<1.00	<1.00	5.09	95.26
MW08	8/28/2020	<1.00	<1.00	<1.00	<1.00	4.55	95.62
MW09	8/28/2020	<1.00	<1.00	<1.00	<1.00	5.26	95.71

Notes: COGCC - Colorado Oil and Gas Conservation Commission

ft bgs - feet below ground surface

NA - not analyzed/not available

NM - not measured

Corrected Relative GW Elev. is used when LNAPL is present.

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



September 04, 2020

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - Camp 13-19A

Project Number - 014219247

Attached are your analytical results for KMG - Camp 13-19A received by Origins Laboratory, Inc. August 28, 2020. This project is associated with Origins project number Y008430-01.

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: 014219247
Project: KMG - Camp 13-19A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y008430-01	Water	August 28, 2020 14:11	08/28/2020 16:22
MW02	Y008430-02	Water	August 28, 2020 14:26	08/28/2020 16:22
MW03	Y008430-03	Water	August 28, 2020 14:22	08/28/2020 16:22
MW04	Y008430-04	Water	August 28, 2020 14:03	08/28/2020 16:22
MW05	Y008430-05	Water	August 28, 2020 13:48	08/28/2020 16:22
MW06	Y008430-06	Water	August 28, 2020 13:57	08/28/2020 16:22
MW07	Y008430-07	Water	August 28, 2020 13:40	08/28/2020 16:22
MW08	Y008430-08	Water	August 28, 2020 14:44	08/28/2020 16:22
MW09	Y008430-09	Water	August 28, 2020 14:34	08/28/2020 16:22

Origins Laboratory, Inc.



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Brian Sulzberger
Project Number: 014219247
Project: KMG - Camp 13-19A

ORIGINS

LABORATORY, INC

www.originslaboratory.com

Y008430

page 1 of 1

Client: LT Environmental

Address: 4600 W 60th Ave

Arvada, CO 80003

Telephone Number: (720) 364-8637

Email Address: Kerr McIver Group

Project Manager: Brian Sulzberger

Project Name: Camp 13-19A

Project Number: 014219247

Samples Collected By: Kyle Mathene

GSH - Phil Hamlin

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #		
MW01	8/28/20	1411	3								BTEX	1
MW02		1426										2
MW03		1422										3
MW04		1403										4
MW05		1348										5
MW06		1357										6
MW07		1340										7
MW08		1444										8
MW09		1434										9
												10
Relinquished By: <u>Kyle Mathene</u>	Date: <u>8/28/20</u>	Time: <u>1622</u>	Received By: <u>[Signature]</u>	Date: <u>3-29-22</u>	Time: <u>1622</u>	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>						
Relinquished By:	Date:	Time:	Received By:	Date:	Time:							

Fax: 303.265.9645

Phone: 303.433.1322

Denver, CO 80211

1725 Elk Place

Temp Received: 10.3

Date Results Needed

Origins Laboratory, Inc.

Imen

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

Brian Sulzberger
Project Number: 014219247
Project: KMG - Camp 13-19A

Origins Laboratory

Origins Work Order: Y1008430

Checklist Completed by: SEK KDK

Date/time completed: 08/31/20

Matrix(s) Received: (Check all that apply): 1 Soil/Solid X Water Other:

Cooler Number/Temperature: 1, 10.3 °C 1 °C 1 °C (Describe) °C

Thermometer ID: T003

Sample Receipt Checklist

Client: LTE

Client Project ID: Camp 13-19A

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

Airbill #: N/A

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

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

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

Reviewed by: jm (Project Manager)

Date/Time Reviewed: 9-1-20

Origins Laboratory, Inc.

Jordan A. Merrill

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

Brian Sulzberger
Project Number: 014219247
Project: KMG - Camp 13-19A

MW01

8/28/2020 2:11:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y008430-01 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0H3101	ZZZ	08/31/2020	09/03/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	119 %	70-130	"	"	"
Surrogate: Toluene-d8	96.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	95.9 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014219247
Project: KMG - Camp 13-19A

MW02

8/28/2020 2:26:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y008430-02 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0H3101	ZZZ	08/31/2020	09/03/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	121 %	70-130			"	"	"
Surrogate: Toluene-d8	95.0 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	97.0 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014219247
Project: KMG - Camp 13-19A

MW03

8/28/2020 2:22:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y008430-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0H3101	ZZZ	08/31/2020	09/03/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	122 %	70-130	"	"	"
Surrogate: Toluene-d8	96.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.5 %	70-130	"	"	"

Origins Laboratory, Inc.

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

Brian Sulzberger
Project Number: 014219247
Project: KMG - Camp 13-19A

MW04

8/28/2020 2:03:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y008430-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0H3101	ZZZ	08/31/2020	09/03/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	123 %	70-130	"	"	"
Surrogate: Toluene-d8	95.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	97.0 %	70-130	"	"	"

Origins Laboratory, Inc.

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

Brian Sulzberger
Project Number: 014219247
Project: KMG - Camp 13-19A

MW05

8/28/2020 1:48:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y008430-05 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0H3101	ZZZ	08/31/2020	09/02/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.0 %	70-130	"	"	"

Origins Laboratory, Inc.

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

Brian Sulzberger
Project Number: 014219247
Project: KMG - Camp 13-19A

MW06

8/28/2020 1:57:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y008430-06 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0H3101	ZZZ	08/31/2020	09/02/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130	"	"	"
Surrogate: Toluene-d8	98.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	97.6 %	70-130	"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

Brian Sulzberger

Project Number: 014219247

Project: KMG - Camp 13-19A

MW07

8/28/2020 1:40:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y008430-07 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0H3101	ZZZ	08/31/2020	09/02/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130	"	"	"
Surrogate: Toluene-d8	99.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	97.2 %	70-130	"	"	"

Origins Laboratory, Inc.

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

Brian Sulzberger
Project Number: 014219247
Project: KMG - Camp 13-19A

MW08

8/28/2020 2:44:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y008430-08 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0H3101	ZZZ	08/31/2020	09/02/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	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: 014219247
Project: KMG - Camp 13-19A

MW09

8/28/2020 2:34:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y008430-09 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0H3101	ZZZ	08/31/2020	09/02/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130	"	"	"
Surrogate: Toluene-d8	96.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.5 %	70-130	"	"	"

Origins Laboratory, Inc.

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

Brian Sulzberger
Project Number: 014219247
Project: KMG - Camp 13-19A

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 B0H3101 - EPA 5030B (Water)										
Blank (B0H3101-BLK1)					Prepared: 08/31/2020 Analyzed: 09/03/2020					
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	73		"	62.5	117		70-130			
Surrogate: Toluene-d8	61		"	62.5	97.0		70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5	98.1		70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014219247
Project: KMG - Camp 13-19A

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 B0H3101 - EPA 5030B (Water)

LCS (B0H3101-BS1)

Prepared: 08/31/2020 Analyzed: 09/03/2020

Benzene	53.7	1.00	ug/L	50.0		107	70-130			
Toluene	53.0	1.00	"	50.0		106	70-130			
Ethylbenzene	56.6	1.00	"	50.0		113	70-130			
m,p-Xylene	113	2.00	"	100		113	70-130			
o-Xylene	57.0	1.00	"	50.0		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	77		"	62.5		124	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.1	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014219247
Project: KMG - Camp 13-19A

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 B0H3101 - EPA 5030B (Water)

Matrix Spike (B0H3101-MS1)		Source: Y008430-01			Prepared: 08/31/2020 Analyzed: 09/03/2020					
Benzene	50.4	1.00	ug/L	50.0	ND	101	70-130			
Toluene	49.9	1.00	"	50.0	ND	99.8	70-130			
Ethylbenzene	52.4	1.00	"	50.0	ND	105	70-130			
m,p-Xylene	107	2.00	"	100	ND	107	70-130			
o-Xylene	54.2	1.00	"	50.0	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	79		"	62.5		126	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.1	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014219247
Project: KMG - Camp 13-19A

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 B0H3101 - EPA 5030B (Water)

Matrix Spike Dup (B0H3101-MSD1)		Source: Y008430-01			Prepared: 08/31/2020 Analyzed: 09/03/2020					
Benzene	44.5	1.00	ug/L	50.0	ND	89.0	70-130	12.4	20	
Toluene	43.6	1.00	"	50.0	ND	87.2	70-130	13.4	20	
Ethylbenzene	46.0	1.00	"	50.0	ND	92.1	70-130	12.8	20	
m,p-Xylene	93.7	2.00	"	100	ND	93.7	70-130	12.9	20	
o-Xylene	49.2	1.00	"	50.0	ND	98.4	70-130	9.75	20	
Surrogate: 1,2-Dichloroethane-d4	78		"	62.5		124	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		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: 014219247
Project: KMG - Camp 13-19A

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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