

FIGURE 1
SITE MAP
 HSR-BOTT 3-23, HSR-FISCHER 6-23
 NENW SEC 23-T4N-R65
 WELD COUNTY, COLORADO
 KERR-MCGEE OIL & GAS ONSHORE LP



September 28, 2018

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - HSR-Bott 3-23, Fischer 6-23 Project Number - KMG10821/WO#884385

Attached are your analytical results for KMG - HSR-Bott 3-23, Fischer 6-23 received by Origins Laboratory, Inc. September 27, 2018. This project is associated with Origins project number Y809387-01.

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

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

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

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

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

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



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

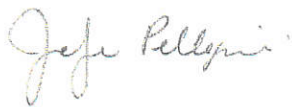
Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N01@7'	Y809387-01	Soil	September 27, 2018 14:35	09/27/2018 17:00
N02@7'	Y809387-02	Soil	September 27, 2018 14:40	09/27/2018 17:00
E01@7'	Y809387-03	Soil	September 27, 2018 14:45	09/27/2018 17:00
E02@7'	Y809387-04	Soil	September 27, 2018 14:50	09/27/2018 17:00
S01@7'	Y809387-05	Soil	September 27, 2018 14:55	09/27/2018 17:00
S02@7'	Y809387-06	Soil	September 27, 2018 15:00	09/27/2018 17:00
W01@7'	Y809387-07	Soil	September 27, 2018 15:05	09/27/2018 17:00
W02@7'	Y809387-08	Soil	September 27, 2018 15:10	09/27/2018 17:00
GW02	Y809387-10	Water	September 27, 2018 14:30	09/27/2018 17:00

Per the email from Andy on 09-28-18, sample ID GW01 was changed to GW02.

Origins Laboratory, Inc.



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ORIGINS

LABORATORY, INC

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

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

www.originslaboratory.com

page 1 of 1

1409387

ORIGINS
LABORATORY, INC

Client: LT Environmental, Inc.
Address: 4600 W 60th Ave
Arvada, CO 80003
Telephone Number: 303 433 9758
Email Address: bsulzberg@lt.com

Project Manager: Brian Sulzberger
Project Name: HSR Bott Fischer 3/23, Fischer
Project Number: KMG 10821
Samples Collected By: Donal Thomas

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air/Surface	Other	BTX	TC	EC	
N0107	9-27-18	1435	2						X						Run
N0207		1440													
F0107		1445													
F0207		1450													
S0107		1455													
S0207		1500													
W0107		1505													
W0207		1510													
B601		1515	1												Hold
B401		1430	3												Run
Relinquished By:	Date: 9-27-18	Time: 1700	Received By:	Date: 9/27/18	Time: 1700	Turnaround Time:									
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Same Day	24 Hr	48 Hr	72 Hr	Standard					

Date Results Needed

Temp Received: 26.1

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1091387

Client: LTE

Client Project ID: KMG - HSR Bott Fischer 3/23,

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 9/27/2018

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 26.1 °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"/>	<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 (> ¼ 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 NaAsO ₂ -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)

9/27/18
Date/Time Reviewed

Origins Laboratory, Inc.

Jefu 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: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

N01@7'
9/27/2018 2:35:00PM

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y809387-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B812711	JTD	09/27/2018	09/28/2018	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl	78.0 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	0.357	0.200	mg/kg	1	B812710	JTD	09/27/2018	09/28/2018	
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"	
Surrogate: Toluene-d8	95.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"	

pH in Soil by EPA 9045D

pH	8.69	pH Units	1	B812705	OLAB	09/27/2018	09/27/2018
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0725	0.00500	mmhos/cm	"	B812706	OLAB	09/27/2018	"
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Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

N02@7'

9/27/2018 2:40:00PM

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y809387-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B812711	JTD	09/27/2018	09/28/2018	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl 66.6 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B812710	JTD	09/27/2018	09/28/2018	U
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "
Surrogate: Toluene-d8 95.3 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 106 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.93	pH Units	1	B812705	OLAB	09/27/2018	09/27/2018
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0813	0.00500	mmhos/cm	"	B812706	OLAB	09/27/2018	"
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Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

E01@7'

9/27/2018 2:45:00PM

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y809387-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B812711	JTD	09/27/2018	09/28/2018	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl 72.1 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B812710	JTD	09/27/2018	09/28/2018	U
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "
Surrogate: Toluene-d8 93.9 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.80		pH Units	1	B812705	OLAB	09/27/2018	09/27/2018	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.160	0.00508	mmhos/cm	"	B812706	OLAB	09/27/2018	"	
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Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

E02@7'

9/27/2018 2:50:00PM

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y809387-04 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B8I2711	JTD	09/27/2018	09/28/2018	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl	71.6 %	59-131			"	"	"		
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8I2710	JTD	09/27/2018	09/28/2018	U
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"		
Surrogate: Toluene-d8	93.2 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"		

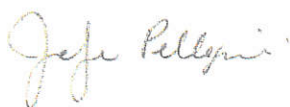
pH in Soil by EPA 9045D

pH	8.72	pH Units	1	B8I2705	OLAB	09/27/2018	09/27/2018		
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.134	0.00507	mmhos/cm	"	B8I2706	OLAB	09/27/2018	"	
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Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

S01@7'

9/27/2018 2:55:00PM

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y809387-05 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B812711	JTD	09/27/2018	09/28/2018	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl	80.8 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	23.9	5.00	mg/kg	25	B812710	JTD	09/27/2018	09/28/2018	
Benzene	ND	0.050	"	"	"	JTD	"	"	U
Toluene	ND	0.050	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.050	"	"	"	JTD	"	"	U
Xylenes, total	0.232	0.050	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	
Surrogate: Toluene-d8	95.5 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

pH in Soil by EPA 9045D

pH	9.03	pH Units	1	B812705	OLAB	09/27/2018	09/27/2018
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.146	0.00500	mmhos/cm	"	B812706	OLAB	09/27/2018	"
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Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

S02@7'

9/27/2018 3:00:00PM

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y809387-06 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	253	25.0	mg/kg	1	B8I2711	JTD	09/27/2018	09/28/2018	
Residual Range Organics (C28-C40)	ND	100	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl 81.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	7.82	5.00	mg/kg	25	B8I2710	JTD	09/27/2018	09/28/2018	
Benzene	ND	0.050	"	"	"	JTD	"	"	U
Toluene	ND	0.050	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.050	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.050	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 95.6 % 70-130 " " "
Surrogate: Toluene-d8 98.1 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

pH in Soil by EPA 9045D

pH	9.05		pH Units	1	B8I2705	OLAB	09/27/2018	09/27/2018	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.201	0.00500	mmhos/cm	"	B8I2706	OLAB	09/27/2018	"	
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Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

W01@7'

9/27/2018 3:05:00PM

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y809387-07 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B812711	JTD	09/27/2018	09/28/2018	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl	72.5 %	59-131			"	"	"		
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B812710	JTD	09/27/2018	09/28/2018	U
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"		
Surrogate: Toluene-d8	95.1 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"		

pH in Soil by EPA 9045D

pH	9.01	pH Units	1	B812705	OLAB	09/27/2018	09/27/2018		
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.208	0.00500	mmhos/cm	"	B812706	OLAB	09/27/2018	"	
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Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

W02@7'

9/27/2018 3:10:00PM

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y809387-08 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B812711	JTD	09/27/2018	09/28/2018	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl 75.9 % 59-131 " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B812710	JTD	09/27/2018	09/28/2018	U
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " "
Surrogate: Toluene-d8 97.0 % 70-130 " "
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " "

pH in Soil by EPA 9045D

pH	8.97		pH Units	1	B812705	OLAB	09/27/2018	09/27/2018	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.145	0.00500	mmhos/cm	"	B812706	OLAB	09/27/2018	"	
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Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

GW02

9/27/2018 2:30:00PM

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y809387-10 (Water)

BTEX by EPA 8260C

Benzene	22.6	4.00	ug/L	4	B812707	JTD	09/27/2018	09/27/2018	
Toluene	ND	4.00	"	"	"	JTD	"	"	U
Ethylbenzene	39.7	4.00	"	"	"	JTD	"	"	
Xylenes, total	553	4.00	"	"	"	JTD	"	"	
Surrogate: 1,2-Dichloroethane-d4	95.3 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	104 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.3 %	84-114			"	"	"	"	

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

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

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 B8I2707 - EPA 5030B (Water)

Blank (B8I2707-BLK1)

Prepared: 09/27/2018 Analyzed: 09/27/2018

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	60		"	62.5		96.6	84-121			
Surrogate: Toluene-d8	66		"	62.5		105	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.4	84-114			

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Jen Pellegrini For Noelle Doyle Mathis, President

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

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

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 B8I2707 - EPA 5030B (Water)

LCS (B8I2707-BS1)

Prepared: 09/27/2018 Analyzed: 09/27/2018

Benzene	47.4	1.00	ug/L	50.0	94.9	73.3-129
Toluene	43.4	1.00	"	50.0	86.8	76.2-123
Ethylbenzene	48.7	1.00	"	50.0	97.4	73.6-130
m,p-Xylene	98.1	2.00	"	100	98.1	76.1-126
o-Xylene	49.4	1.00	"	50.0	98.8	76.6-124
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5	102	84-121
Surrogate: Toluene-d8	60		"	62.5	95.7	85-115
Surrogate: 4-Bromofluorobenzene	64		"	62.5	102	84-114

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

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

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 B812707 - EPA 5030B (Water)

Matrix Spike (B812707-MS1)		Source: Y809370-04			Prepared: 09/27/2018 Analyzed: 09/27/2018					
Benzene	54.0	1.00	ug/L	50.0	ND	108	74-130			
Toluene	55.7	1.00	"	50.0	ND	111	73-131			
Ethylbenzene	58.6	1.00	"	50.0	0.100	117	76-132			
m,p-Xylene	116	2.00	"	100	ND	116	69-139			
o-Xylene	52.8	1.00	"	50.0	ND	106	74-131			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	84-121			
Surrogate: Toluene-d8	66		"	62.5		105	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.4	84-114			

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Arvada CO 80003

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

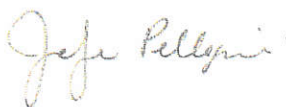
Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B812707 - EPA 5030B (Water)

Matrix Spike Dup (B812707-MSD1)		Source: Y809370-04			Prepared: 09/27/2018 Analyzed: 09/27/2018					
Benzene	54.2	1.00	ug/L	50.0	ND	108	74-130	0.388	20	
Toluene	49.1	1.00	"	50.0	ND	98.2	73-131	12.7	20	
Ethylbenzene	62.1	1.00	"	50.0	0.100	124	76-132	5.78	20	
m,p-Xylene	123	2.00	"	100	ND	123	69-139	5.88	20	
o-Xylene	58.6	1.00	"	50.0	ND	117	74-131	10.5	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.9	84-121			
Surrogate: Toluene-d8	56		"	62.5		89.2	85-115			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	84-114			

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Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

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 B8I2710 - EPA 5030 (soil)										
Blank (B8I2710-BLK1)					Prepared: 09/27/2018 Analyzed: 09/27/2018					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.1	70-130			

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Arvada CO 80003

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

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 B812710 - EPA 5030 (soil)										
Blank (B812710-BLK2)					Prepared: 09/27/2018 Analyzed: 09/27/2018					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

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 B812710 - EPA 5030 (soil)

LCS (B812710-BS1)

Prepared: 09/27/2018 Analyzed: 09/27/2018

Benzene	0.107	0.002	mg/kg	0.100	107	77.1-124
Toluene	0.107	0.002	"	0.100	107	74.5-128
Ethylbenzene	0.115	0.002	"	0.100	115	66.4-127
m,p-Xylene	0.229	0.004	"	0.200	114	76.6-124
o-Xylene	0.116	0.002	"	0.100	116	76.6-124
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5	98.5	70-130
Surrogate: Toluene-d8	62		"	62.5	99.8	70-130
Surrogate: 4-Bromofluorobenzene	65		"	62.5	103	70-130

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Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

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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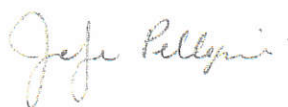
Batch B812710 - EPA 5030 (soil)

LCS (B812710-BS2)

Prepared: 09/27/2018 Analyzed: 09/27/2018

Benzene	0.108	0.002	mg/kg	0.100		108	77.1-124			
Toluene	0.105	0.002	"	0.100		105	74.5-128			
Ethylbenzene	0.109	0.002	"	0.100		109	66.4-127			
m,p-Xylene	0.217	0.004	"	0.200		109	76.6-124			
o-Xylene	0.105	0.002	"	0.100		105	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.4	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.9	70-130			

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

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

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 B8I2710 - EPA 5030 (soil)

Matrix Spike (B8I2710-MS1)		Source: Y809362-02			Prepared: 09/27/2018 Analyzed: 09/27/2018					
Benzene	0.104	0.002	mg/kg	0.100	ND	104	71.8-126			
Toluene	0.100	0.002	"	0.100	ND	100	65.1-130			
Ethylbenzene	0.103	0.002	"	0.100	ND	103	62.2-130			
m,p-Xylene	0.206	0.004	"	0.200	ND	103	46.5-137			
o-Xylene	0.096	0.002	"	0.100	ND	95.7	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	70-130			

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Brian Sulzberger
Project Number: KMG10821/VO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

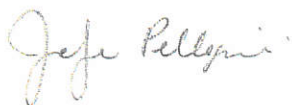
Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B812710 - EPA 5030 (soil)

Matrix Spike (B812710-MS2)		Source: Y809368-01			Prepared: 09/27/2018 Analyzed: 09/27/2018					
Benzene	0.095	0.002	mg/kg	0.100	ND	95.3	71.8-126			
Toluene	0.090	0.002	"	0.100	ND	90.5	65.1-130			
Ethylbenzene	0.090	0.002	"	0.100	ND	89.7	62.2-130			
m,p-Xylene	0.178	0.004	"	0.200	ND	89.2	46.5-137			
o-Xylene	0.087	0.002	"	0.100	ND	87.1	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		108	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.4	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.5	70-130			

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Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

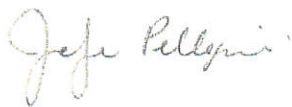
Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B812710 - EPA 5030 (soil)

Matrix Spike Dup (B812710-MSD1)		Source: Y809362-02			Prepared: 09/27/2018 Analyzed: 09/27/2018					
Benzene	0.093	0.002	mg/kg	0.100	ND	93.1	71.8-126	10.7	11.3	
Toluene	0.094	0.002	"	0.100	ND	94.1	65.1-130	6.16	15.4	
Ethylbenzene	0.102	0.002	"	0.100	ND	102	62.2-130	0.955	19.6	
m,p-Xylene	0.206	0.004	"	0.200	ND	103	46.5-137	0.262	19.2	
o-Xylene	0.114	0.002	"	0.100	ND	114	54.2-134	17.4	17.9	
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.4	70-130			
Surrogate: Toluene-d8	61		"	62.5		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	70-130			

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

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

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 B8I2710 - EPA 5030 (soil)

Matrix Spike Dup (B8I2710-MSD2)		Source: Y809368-01			Prepared: 09/27/2018 Analyzed: 09/27/2018					
Benzene	0.093	0.002	mg/kg	0.100	ND	93.2	71.8-126	2.14	11.3	
Toluene	0.087	0.002	"	0.100	ND	87.4	65.1-130	3.44	15.4	
Ethylbenzene	0.086	0.002	"	0.100	ND	85.5	62.2-130	4.77	19.6	
m,p-Xylene	0.171	0.004	"	0.200	ND	85.6	46.5-137	4.06	19.2	
o-Xylene	0.084	0.002	"	0.100	ND	83.6	54.2-134	4.05	17.9	
Surrogate: 1,2-Dichloroethane-d4	69		ug/kg	62.5		110	70-130			
Surrogate: Toluene-d8	59		"	62.5		93.8	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.9	70-130			

Origins Laboratory, Inc.



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4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Extractable Petroleum Hydrocarbons by 8015C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8I2711 - EPA 3580

Blank (B8I2711-BLK1)

Prepared: 09/27/2018 Analyzed: 09/27/2018

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	38		"	50.0		75.2	59-131			

Blank (B8I2711-BLK2)

Prepared: 09/27/2018 Analyzed: 09/27/2018

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	41		"	50.0		82.4	59-131			

LCS (B8I2711-BS1)

Prepared: 09/27/2018 Analyzed: 09/27/2018

Diesel (C10-C28)	945	50.0	mg/kg	1000		94.5	64-121			
Residual Range Organics (C28-C40)	961	200	"	1000		96.1	58-124			
Surrogate: o-Terphenyl	47		"	50.0		94.5	59-131			

LCS (B8I2711-BS2)

Prepared: 09/27/2018 Analyzed: 09/27/2018

Diesel (C10-C28)	1010	50.0	mg/kg	1000		101	64-121			
Residual Range Organics (C28-C40)	885	200	"	1000		88.5	58-124			
Surrogate: o-Terphenyl	46		"	50.0		92.0	59-131			

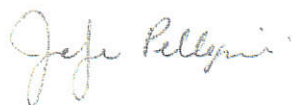
Matrix Spike (B8I2711-MS1)

Source: Y809362-02

Prepared: 09/27/2018 Analyzed: 09/27/2018

Diesel (C10-C28)	922	50.0	mg/kg	1000	ND	92.2	53-125			
Residual Range Organics (C28-C40)	940	200	"	1000	5.90	93.4	47-133			

Origins Laboratory, Inc.



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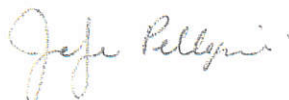
LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8I2711 - EPA 3580										
Matrix Spike (B8I2711-MS1)		Source: Y809362-02			Prepared: 09/27/2018 Analyzed: 09/27/2018					
Surrogate: o-Terphenyl	46		mg/kg	50.0		92.8	59-131			
Matrix Spike (B8I2711-MS2)		Source: Y809386-01			Prepared: 09/27/2018 Analyzed: 09/27/2018					
Diesel (C10-C28)	1110	50.0	mg/kg	1000	ND	111	53-125			
Residual Range Organics (C28-C40)	1000	200	"	1000	15.3	98.5	47-133			
Surrogate: o-Terphenyl	49		"	50.0		98.9	59-131			
Matrix Spike Dup (B8I2711-MSD1)		Source: Y809362-02			Prepared: 09/27/2018 Analyzed: 09/27/2018					
Diesel (C10-C28)	927	50.0	mg/kg	1000	ND	92.7	53-125	0.464	20	
Residual Range Organics (C28-C40)	945	200	"	1000	5.90	94.0	47-133	0.580	20	
Surrogate: o-Terphenyl	46		"	50.0		93.0	59-131			
Matrix Spike Dup (B8I2711-MSD2)		Source: Y809386-01			Prepared: 09/27/2018 Analyzed: 09/27/2018					
Diesel (C10-C28)	1070	50.0	mg/kg	1000	ND	107	53-125	4.10	20	
Residual Range Organics (C28-C40)	974	200	"	1000	15.3	95.9	47-133	2.70	20	
Surrogate: o-Terphenyl	50		"	50.0		100	59-131			

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

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8I2705 - NO PREP										
Duplicate (B8I2705-DUP1)		Source: Y809365-01			Prepared: 09/27/2018 Analyzed: 09/27/2018					
pH	8.21		pH Units		8.41			2.41	25	
Duplicate (B8I2705-DUP2)		Source: Y809387-01			Prepared: 09/27/2018 Analyzed: 09/27/2018					
pH	8.74		pH Units		8.69			0.574	25	
Batch B8I2706 - NO PREP										
Blank (B8I2706-BLK1)					Prepared: 09/27/2018 Analyzed: 09/27/2018					
Specific Conductance (EC)	0.00220	0.00500	mmhos/cm							
Blank (B8I2706-BLK2)					Prepared: 09/27/2018 Analyzed: 09/27/2018					
Specific Conductance (EC)	0.00230	0.00500	mmhos/cm							
Duplicate (B8I2706-DUP1)		Source: Y809365-01			Prepared: 09/27/2018 Analyzed: 09/27/2018					
Specific Conductance (EC)	1.28	0.00500	mmhos/cm		1.19			6.60	25	
Duplicate (B8I2706-DUP2)		Source: Y809387-01			Prepared: 09/27/2018 Analyzed: 09/27/2018					
Specific Conductance (EC)	0.0575	0.00500	mmhos/cm		0.0725			23.1	25	

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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.

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