

LEGEND

- X RELEASE LOCATION
- ▲ EXISTING AIR SPARGING (AS) WELL
- △ ABANDONED AIR SPARGING WELL
- 2010 SOIL SAMPLE
- 2018 SOIL SAMPLE
- ⊗ MONITORING WELL
- ⊘ ABANDONED MONITORING WELL
- ⊙ REMOVED FROM MONITORING PROGRAM
- ⊕ GROUNDWATER SAMPLE
- [M] METER HOUSE
- ↑ SURVEYED GROUNDWATER FLOW DIRECTION
- ⋯ FORMER FENCE

- EXCAVATION EXTENT 2010
- EXCAVATION EXTENT 2018
- FORMER BERM

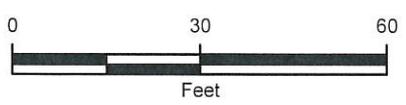


IMAGE COURTESY OF GOOGLE EARTH 2017

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

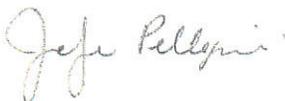
Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

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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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

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 page 1 of 1

1489387

ORIGINS
 LABORATORY, INC

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

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air/Surface & Dust	Other	BTX	TRT	PCB	
NO1E7	9-27-18	1455	2					X							Run
NO2E7		1446													
FO1E7		1445													
FO2E7		1450													
SO1E7		1455													
SO2E7		1500													
WO1E7		1505													
WO2E7		1510													
B601		1515	1												Hold
B601		1430	3												Run
Relinquished By:		Date: 9-27-18	Time: 1700	Received By:		Date: 9/27/18	Time: 1700	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>							
Relinquished By:		Date:	Time:	Received By:		Date:	Time:								

Temp Received: 66 | Date Results Needed

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: 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"/>		<u>Same Day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH < 2 for samples preserved with HNO3 HCL, H2SO4) / (pH > 10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

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

Reviewed by (Project Manager): [Signature]

Date/Time Reviewed: 9/27/18

Origins Laboratory, Inc.

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

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

Analyte	Result	Reporting		Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
		Limit								

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 " " "

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 " " "

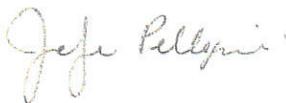
pH in Soil by EPA 9045D

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.



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

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 " " "

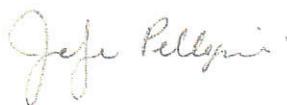
pH in Soil by EPA 9045D

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

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	B8I2711	JTD	09/27/2018	09/28/2018	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl	72.1 %	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	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	B8I2705	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	"	B8I2706	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

E02@7'

9/27/2018 2:50:00PM

Analyte	Result	Reporting 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	B812711	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	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	110 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	93.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

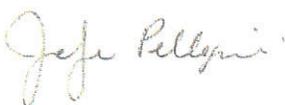
pH in Soil by EPA 9045D

pH	8.72		pH Units	1	B812705	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	"	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

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 " " "

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 " " "

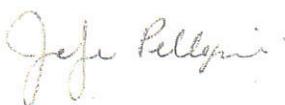
pH in Soil by EPA 9045D

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 " " "

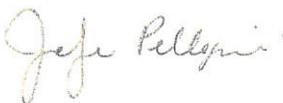
pH in Soil by EPA 9045D

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	B8I2711	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	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	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	B8I2705	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	"	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

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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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 %					"	"	"	
Surrogate: Toluene-d8	104 %					"	"	"	
Surrogate: 4-Bromofluorobenzene	94.3 %					"	"	"	

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 Project: KMG - HSR-Bott 3-23, Fischer 6-23

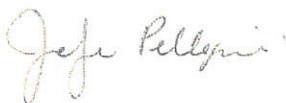
Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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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 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)

LCS (B812707-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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 Project: KMG - HSR-Bott 3-23, Fischer 6-23

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
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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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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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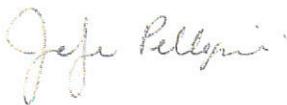
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 Project: KMG - HSR-Bott 3-23, Fischer 6-23

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
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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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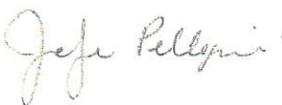
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 Project: KMG - HSR-Bott 3-23, Fischer 6-23

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8I2710 - EPA 5030 (soil)										
Blank (B8I2710-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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 Project: KMG - HSR-Bott 3-23, Fischer 6-23

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
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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: KMG - HSR-Bott 3-23, Fischer 6-23

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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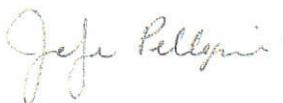
Batch B812710 - EPA 5030 (soil)

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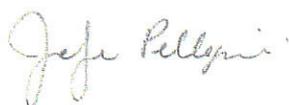
Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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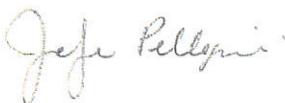
Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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: 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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 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			

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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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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			
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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			
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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			
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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			
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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			

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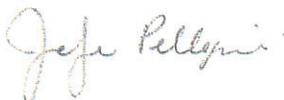
LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

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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Brian Sulzberger
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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

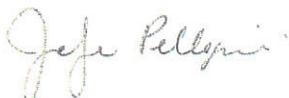
U Sample is Non-Detect.

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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