



April 10, 2017

LT Environmental, Inc.

Rob Rebel

4600 West 60th Avenue

Arvada

CO 80003

Project Name - NHF Laura 1

Project Number - 027317003

Attached are your analytical results for NHF Laura 1 received by Origins Laboratory, Inc. April 07, 2017. This project is associated with Origins project number Y704087-01.

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

Rob Rebel
Project Number: 027317003
Project: NHF Laura 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01	Y704087-01	Soil	April 7, 2017 12:15	04/07/2017 16:15
SS02	Y704087-02	Soil	April 7, 2017 12:25	04/07/2017 16:15
SS03	Y704087-03	Soil	April 7, 2017 12:45	04/07/2017 16:15
SS04	Y704087-04	Soil	April 7, 2017 13:30	04/07/2017 16:15
SS05	Y704087-05	Soil	April 7, 2017 13:45	04/07/2017 16:15

Origins Laboratory, Inc.



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Rob Rebel
Project Number: 027317003
Project: NHF Laura 1

ORIGINS

LABORATORY, INC

www.originslaboratory.com

4704067

page 1 of 1

Client: LTE
Address: 4608 W 60th Ave.
Arvada CO
Telephone Number: 303-433-9788
Email Address: kebab@kerry.com

Project Manager: Rob Retel
Project Name: NHF Lawa /
Project Number: 0077317003
Samples Collected By: _____

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #			
SS01	4/7/17	1215	1	X					X		X	1	
SS02	4/7/17	1225	1	X					X		X	2	
SS03	4/7/17	1245	1	X					X		X	3	
SS04	4/7/17	1330	1	X					X		X	4	
SS05	4/7/17	1345	1	X					X		X	5	
												6	
												7	
												8	
												9	
												10	
Relinquished By: <u>[Signature]</u>	Date: <u>4/7/17</u>	Time: <u>1615</u>		Received By: <u>[Signature]</u>	Date: <u>4-7-17</u>	Time: <u>1615</u>		Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>					
Relinquished By: _____	Date: _____	Time: _____		Received By: _____	Date: _____	Time: _____							

Temp Received- 49.6 °C

Date Results Needed

Origins Laboratory, Inc.

Jeff Pellipini

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

Rob Rebel
Project Number: 027317003
Project: NHF Laura 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4704087 Client: LTE
Client Project ID: NHF Laura 1
Checklist Completed by: Joe Lee Shipped Via: HQ
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 4-1-17 1734 Airbill #: NA
Matrix(s) Received: (Check all that apply): / Soil/Solid / Water / Other: /
(Describe)
Cooler Number/Temperature: 1 / 4.8 °C / °C / °C / °C
Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager)

4-1-17 1734
Date/Time Reviewed

Origins Laboratory, Inc.

Jen Pellegrini

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

Rob Rebel
Project Number: 027317003
Project: NHF Laura 1

SS01

4/7/2017 12:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y704087-01 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	748	50.0	mg/kg	1	B7D0703	04/07/2017	04/08/2017
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Surrogate: o-Terphenyl	88.9 %	59-131			"	"	"
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	464	50.0	mg/kg	250	B7D0702	04/07/2017	04/08/2017
Benzene	0.114	0.050	"	25	"	"	04/07/2017
Toluene	2.52	0.050	"	"	"	"	"
Ethylbenzene	1.62	0.050	"	"	"	"	"
Xylenes, total	15.8	0.050	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"
Surrogate: Toluene-d8	110 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	117 %	70-130			"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.
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Arvada CO 80003

Rob Rebel
Project Number: 027317003
Project: NHF Laura 1

SS02

4/7/2017 12:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y704087-02 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7D0703	04/07/2017	04/08/2017	U
Surrogate: o-Terphenyl	80.9 %	59-131			"	"	"	

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	20.7	5.00	mg/kg	25	B7D0702	04/07/2017	04/07/2017	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.6 %	70-130			"	"	"	

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Arvada CO 80003

Rob Rebel
Project Number: 027317003
Project: NHF Laura 1

SS03

4/7/2017 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y704087-03 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7D0703	04/07/2017	04/08/2017	U
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Surrogate: o-Terphenyl	87.7 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	5.08	5.00	mg/kg	25	B7D0702	04/07/2017	04/07/2017	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.6 %	70-130			"	"	"	

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Arvada CO 80003

Rob Rebel
Project Number: 027317003
Project: NHF Laura 1

SS04

4/7/2017 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y704087-04 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7D0703	04/07/2017	04/08/2017	U
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Surrogate: o-Terphenyl	87.5 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7D0702	04/07/2017	04/08/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.2 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

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Project Number: 027317003
Project: NHF Laura 1

SS05

4/7/2017 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y704087-05 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7D0703	04/07/2017	04/08/2017	U
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Surrogate: o-Terphenyl	69.7 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7D0702	04/07/2017	04/08/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.1 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	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
Batch B7D0702 - EPA 5030 (soil)										
Blank (B7D0702-BLK1)					Prepared: 04/07/2017 Analyzed: 04/07/2017					
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	68		ug/kg	62.5		109	70-130			
Surrogate: Toluene-d8	68		"	62.5		109	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	70-130			

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Arvada CO 80003

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Project Number: 027317003
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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
Batch B7D0702 - EPA 5030 (soil)										
Blank (B7D0702-BLK2)					Prepared: 04/07/2017 Analyzed: 04/07/2017					
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	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.8	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 B7D0702 - EPA 5030 (soil)

LCS (B7D0702-BS1)

Prepared: 04/07/2017 Analyzed: 04/07/2017

Benzene	0.115	0.002	mg/kg	0.100	115	77.1-124
Toluene	0.111	0.002	"	0.100	111	74.5-128
Ethylbenzene	0.110	0.002	"	0.100	110	66.4-127
m,p-Xylene	0.220	0.004	"	0.200	110	76.6-124
o-Xylene	0.112	0.002	"	0.100	112	76.6-124
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5	103	70-130
Surrogate: Toluene-d8	66		"	62.5	105	70-130
Surrogate: 4-Bromofluorobenzene	62		"	62.5	99.4	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 B7D0702 - EPA 5030 (soil)

LCS (B7D0702-BS2)

Prepared: 04/07/2017 Analyzed: 04/07/2017

Benzene	0.103	0.002	mg/kg	0.100		103	77.1-124			
Toluene	0.102	0.002	"	0.100		102	74.5-128			
Ethylbenzene	0.105	0.002	"	0.100		105	66.4-127			
m,p-Xylene	0.209	0.004	"	0.200		105	76.6-124			
o-Xylene	0.105	0.002	"	0.100		105	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.1	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.1	70-130			

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4600 West 60th Avenue
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Rob Rebel
Project Number: 027317003
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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 B7D0702 - EPA 5030 (soil)

Matrix Spike (B7D0702-MS1)		Source: Y704061-01			Prepared: 04/07/2017 Analyzed: 04/07/2017					
Benzene	0.109	0.002	mg/kg	0.100	ND	109	71.8-126			
Toluene	0.104	0.002	"	0.100	ND	104	65.1-130			
Ethylbenzene	0.103	0.002	"	0.100	ND	103	62.2-130			
m,p-Xylene	0.210	0.004	"	0.200	ND	105	46.5-137			
o-Xylene	0.108	0.002	"	0.100	ND	108	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.1	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 B7D0702 - EPA 5030 (soil)

Matrix Spike (B7D0702-MS2)		Source: Y704081-01			Prepared: 04/07/2017 Analyzed: 04/07/2017					
Benzene	2.49	0.050	mg/kg	2.50	ND	99.8	71.8-126			
Toluene	2.45	0.050	"	2.50	ND	97.9	65.1-130			
Ethylbenzene	2.42	0.050	"	2.50	ND	97.0	62.2-130			
m,p-Xylene	4.81	0.100	"	5.00	ND	96.2	46.5-137			
o-Xylene	2.45	0.050	"	2.50	ND	98.2	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.2	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.6	70-130			

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Project: NHF Laura 1

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 B7D0702 - EPA 5030 (soil)										
Matrix Spike Dup (B7D0702-MSD1)		Source: Y704061-01			Prepared: 04/07/2017 Analyzed: 04/07/2017					
Benzene	0.097	0.002	mg/kg	0.100	ND	96.7	71.8-126	12.0	11.3	QR-02
Toluene	0.089	0.002	"	0.100	ND	89.1	65.1-130	15.0	15.4	
Ethylbenzene	0.087	0.002	"	0.100	ND	87.1	62.2-130	16.9	19.6	
m,p-Xylene	0.176	0.004	"	0.200	ND	87.9	46.5-137	17.7	19.2	
o-Xylene	0.093	0.002	"	0.100	ND	93.0	54.2-134	14.7	17.9	
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		98.0	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	55		"	62.5		88.4	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 B7D0702 - EPA 5030 (soil)

Matrix Spike Dup (B7D0702-MSD2)		Source: Y704081-01			Prepared: 04/07/2017 Analyzed: 04/07/2017					
Benzene	2.36	0.050	mg/kg	2.50	ND	94.4	71.8-126	5.56	11.3	
Toluene	2.28	0.050	"	2.50	ND	91.0	65.1-130	7.31	15.4	
Ethylbenzene	2.22	0.050	"	2.50	ND	89.0	62.2-130	8.63	19.6	
m,p-Xylene	4.47	0.100	"	5.00	ND	89.4	46.5-137	7.39	19.2	
o-Xylene	2.44	0.050	"	2.50	ND	97.5	54.2-134	0.675	17.9	
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.4	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	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

Rob Rebel
Project Number: 027317003
Project: NHF Laura 1

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 B7D0703 - EPA 3550B

Blank (B7D0703-BLK1)

Prepared: 04/07/2017 Analyzed: 04/07/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
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Surrogate: o-Terphenyl

42	"	50.0	84.2	59-131
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Blank (B7D0703-BLK2)

Prepared: 04/07/2017 Analyzed: 04/07/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
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Surrogate: o-Terphenyl

36	"	50.0	72.4	59-131
----	---	------	------	--------

LCS (B7D0703-BS1)

Prepared: 04/07/2017 Analyzed: 04/07/2017

Diesel (C10-C28)	959	50.0	mg/kg	1000	95.9	64-121
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Surrogate: o-Terphenyl

46	"	50.0	92.1	59-131
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LCS (B7D0703-BS2)

Prepared: 04/07/2017 Analyzed: 04/07/2017

Diesel (C10-C28)	965	50.0	mg/kg	1000	96.5	64-121
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Surrogate: o-Terphenyl

47	"	50.0	93.9	59-131
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Matrix Spike (B7D0703-MS1)

Source: Y704061-01

Prepared: 04/07/2017 Analyzed: 04/07/2017

Diesel (C10-C28)	948	50.0	mg/kg	1000	14.0	93.4	53-125
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Surrogate: o-Terphenyl

44	"	50.0	87.9	59-131
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Matrix Spike (B7D0703-MS2)

Source: Y704061-05

Prepared: 04/07/2017 Analyzed: 04/07/2017

Diesel (C10-C28)	957	50.0	mg/kg	1000	31.7	92.5	53-125
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Surrogate: o-Terphenyl

47	"	50.0	94.4	59-131
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Origins Laboratory, Inc.



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

Rob Rebel
Project Number: 027317003
Project: NHF Laura 1

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 B7D0703 - EPA 3550B										
Matrix Spike Dup (B7D0703-MSD1)		Source: Y704061-01			Prepared: 04/07/2017 Analyzed: 04/07/2017					
Diesel (C10-C28)	957	50.0	mg/kg	1000	14.0	94.3	53-125	0.906	20	
Surrogate: o-Terphenyl	47		"	50.0		93.8	59-131			
Matrix Spike Dup (B7D0703-MSD2)		Source: Y704061-05			Prepared: 04/07/2017 Analyzed: 04/07/2017					
Diesel (C10-C28)	926	50.0	mg/kg	1000	31.7	89.5	53-125	3.21	20	
Surrogate: o-Terphenyl	47		"	50.0		94.5	59-131			

Origins Laboratory, Inc.



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

Rob Rebel
Project Number: 027317003
Project: NHF Laura 1

Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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



April 11, 2017

LT Environmental, Inc.

Rob Rebel

4600 West 60th Avenue

Arvada

CO 80003

Project Name - NHF Laura 1

Project Number - 027317004

Attached are your analytical results for NHF Laura 1 received by Origins Laboratory, Inc. April 10, 2017. This project is associated with Origins project number Y704108-01.

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

Rob Rebel

Project Number: 027317004

Project: NHF Laura 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS06	Y704108-01	Soil	April 10, 2017 12:10	04/10/2017 16:00

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.

Rob Rebel
Project Number: 027317004
Project: NHF Laura 1

ORIGINS

LABORATORY, INC

www.originslaboratory.com

Y104108

page 1 of 1

Client: LTE
Address: 4600 W. 60th Ave.
Arvada CO
Telephone Number: 303-433-9788
Email Address: Rob@ltenv.com

Project Manager: Rob Nole
Project Name: NHE Laura
Project Number: 027317004
Samples Collected By: Ryan Krizbauer

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix			Analysis	Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Continer #	Other				
5506	4/10/17	1210	1	X					X			X	X	1	
														2	
														3	
														4	
														5	
														6	
														7	
														8	
														9	
														10	
Relinquished By: <u>[Signature]</u>	Date: <u>4/10/17</u>	Time: <u>11:00</u>											Date: <u>4-10-17</u>	Time: <u>1600</u>	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>
Relinquished By: <u>[Signature]</u>	Date: _____	Time: _____											Date: _____	Time: _____	

Temp Received- 36.2

Date Results Needed

Origins Laboratory, Inc.

Jeff Pellipini

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

Rob Rebel
Project Number: 027317004
Project: NHF Laura 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y704108

Client: LTK

Client Project ID: NHF Laura 1

Checklist Completed by: D. L.

Shipped Via: HD

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

Date/time completed: 4-10-12 12:16

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 3.6 °C 1 / _____ °C 1 / _____ °C (Describe)

Thermometer ID: 7003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by: [Signature] (Project Manager)

Date/Time Reviewed: 4-10-12 1641

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

Rob Rebel
Project Number: 027317004
Project: NHF Laura 1

SS06

4/10/2017 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y704108-01 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7D1005	04/10/2017	04/11/2017	U
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Surrogate: o-Terphenyl	72.6 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7D1001	04/10/2017	04/10/2017	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	104 %	70-130			"	"	"	
Surrogate: Toluene-d8	107 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.4 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Rob Rebel
Project Number: 027317004
Project: NHF Laura 1

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 B7D1001 - EPA 5030 (soil)										
Blank (B7D1001-BLK1)					Prepared: 04/10/2017 Analyzed: 04/10/2017					
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	62		ug/kg	62.5		99.2	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.1	70-130			

Origins Laboratory, Inc.



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

Rob Rebel
Project Number: 027317004
Project: NHF Laura 1

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 B7D1001 - EPA 5030 (soil)										
Blank (B7D1001-BLK2)					Prepared: 04/10/2017 Analyzed: 04/10/2017					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	69		ug/kg	62.5		111	70-130			
Surrogate: Toluene-d8	66		"	62.5		106	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



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

Rob Rebel
Project Number: 027317004
Project: NHF Laura 1

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 B7D1001 - EPA 5030 (soil)										
LCS (B7D1001-BS1)					Prepared: 04/10/2017 Analyzed: 04/10/2017					
Benzene	0.095	0.002	mg/kg	0.100		94.6	77.1-124			
Toluene	0.099	0.002	"	0.100		99.0	74.5-128			
Ethylbenzene	0.102	0.002	"	0.100		102	66.4-127			
m,p-Xylene	0.204	0.004	"	0.200		102	76.6-124			
o-Xylene	0.098	0.002	"	0.100		98.1	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	58		ug/kg	62.5		92.4	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		92.6	70-130			

Origins Laboratory, Inc.



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

Rob Rebel
Project Number: 027317004
Project: NHF Laura 1

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 B7D1001 - EPA 5030 (soil)										
LCS (B7D1001-BS2)					Prepared: 04/10/2017 Analyzed: 04/10/2017					
Benzene	0.084	0.002	mg/kg	0.100		84.4	77.1-124			
Toluene	0.095	0.002	"	0.100		95.0	74.5-128			
Ethylbenzene	0.101	0.002	"	0.100		101	66.4-127			
m,p-Xylene	0.206	0.004	"	0.200		103	76.6-124			
o-Xylene	0.100	0.002	"	0.100		100	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	54		ug/kg	62.5		86.7	70-130			
Surrogate: Toluene-d8	68		"	62.5		108	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

Rob Rebel
Project Number: 027317004
Project: NHF Laura 1

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 B7D1001 - EPA 5030 (soil)

Matrix Spike (B7D1001-MS1)		Source: Y704090-01			Prepared: 04/10/2017 Analyzed: 04/10/2017					
Benzene	2.55	0.050	mg/kg	2.50	ND	102	71.8-126			
Toluene	2.71	0.050	"	2.50	ND	108	65.1-130			
Ethylbenzene	2.84	0.050	"	2.50	ND	114	62.2-130			
m,p-Xylene	5.69	0.100	"	5.00	ND	114	46.5-137			
o-Xylene	2.68	0.050	"	2.50	ND	107	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	58		ug/kg	62.5		92.1	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.6	70-130			

Origins Laboratory, Inc.



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

Rob Rebel
Project Number: 027317004
Project: NHF Laura 1

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 B7D1001 - EPA 5030 (soil)

Matrix Spike (B7D1001-MS2)		Source: Y704107-01			Prepared: 04/10/2017 Analyzed: 04/10/2017					
Benzene	0.082	0.002	mg/kg	0.100	ND	81.8	71.8-126			
Toluene	0.092	0.002	"	0.100	ND	91.6	65.1-130			
Ethylbenzene	0.094	0.002	"	0.100	ND	94.1	62.2-130			
m,p-Xylene	0.191	0.004	"	0.200	ND	95.6	46.5-137			
o-Xylene	0.094	0.002	"	0.100	ND	93.8	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	53		ug/kg	62.5		85.4	70-130			
Surrogate: Toluene-d8	67		"	62.5		107	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.2	70-130			

Origins Laboratory, Inc.



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

Rob Rebel
Project Number: 027317004
Project: NHF Laura 1

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 B7D1001 - EPA 5030 (soil)

Matrix Spike Dup (B7D1001-MSD1)		Source: Y704090-01			Prepared: 04/10/2017 Analyzed: 04/10/2017					
Benzene	2.45	0.050	mg/kg	2.50	ND	97.8	71.8-126	4.05	11.3	
Toluene	2.57	0.050	"	2.50	ND	103	65.1-130	5.02	15.4	
Ethylbenzene	2.69	0.050	"	2.50	ND	108	62.2-130	5.51	19.6	
m,p-Xylene	5.37	0.100	"	5.00	ND	107	46.5-137	5.73	19.2	
o-Xylene	2.57	0.050	"	2.50	ND	103	54.2-134	4.36	17.9	
Surrogate: 1,2-Dichloroethane-d4	58		ug/kg	62.5		92.9	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.0	70-130			

Origins Laboratory, Inc.



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

Rob Rebel
Project Number: 027317004
Project: NHF Laura 1

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 B7D1001 - EPA 5030 (soil)

Matrix Spike Dup (B7D1001-MSD2)		Source: Y704107-01			Prepared: 04/10/2017 Analyzed: 04/10/2017					
Benzene	0.087	0.002	mg/kg	0.100	ND	86.9	71.8-126	6.09	11.3	
Toluene	0.094	0.002	"	0.100	ND	94.4	65.1-130	3.10	15.4	
Ethylbenzene	0.101	0.002	"	0.100	ND	101	62.2-130	6.64	19.6	
m,p-Xylene	0.204	0.004	"	0.200	ND	102	46.5-137	6.43	19.2	
o-Xylene	0.099	0.002	"	0.100	ND	98.9	54.2-134	5.35	17.9	
Surrogate: 1,2-Dichloroethane-d4	70		ug/kg	62.5		111	70-130			
Surrogate: Toluene-d8	66		"	62.5		106	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.4	70-130			

Origins Laboratory, Inc.



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

Rob Rebel
Project Number: 027317004
Project: NHF Laura 1

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 B7D1005 - EPA 3550B

Blank (B7D1005-BLK1)				Prepared: 04/10/2017 Analyzed: 04/10/2017						
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	45		"	50.0		89.8	59-131			
Blank (B7D1005-BLK2)				Prepared: 04/10/2017 Analyzed: 04/10/2017						
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	35		"	50.0		69.9	59-131			
LCS (B7D1005-BS1)				Prepared: 04/10/2017 Analyzed: 04/10/2017						
Diesel (C10-C28)	751	50.0	mg/kg	1000		75.1	64-121			
Surrogate: o-Terphenyl	39		"	50.0		77.9	59-131			
LCS (B7D1005-BS2)				Prepared: 04/10/2017 Analyzed: 04/10/2017						
Diesel (C10-C28)	766	50.0	mg/kg	1000		76.6	64-121			
Surrogate: o-Terphenyl	39		"	50.0		78.4	59-131			
Matrix Spike (B7D1005-MS1)				Source: Y704038-02		Prepared: 04/10/2017 Analyzed: 04/10/2017				
Diesel (C10-C28)	830	50.0	mg/kg	1000	136	69.4	53-125			
Surrogate: o-Terphenyl	38		"	50.0		76.1	59-131			
Matrix Spike (B7D1005-MS2)				Source: Y704038-03		Prepared: 04/10/2017 Analyzed: 04/10/2017				
Diesel (C10-C28)	868	50.0	mg/kg	1000	149	71.9	53-125			
Surrogate: o-Terphenyl	40		"	50.0		80.6	59-131			

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Rob Rebel
Project Number: 027317004
Project: NHF Laura 1

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 B7D1005 - EPA 3550B										
Matrix Spike Dup (B7D1005-MSD1)		Source: Y704038-02			Prepared: 04/10/2017 Analyzed: 04/10/2017					
Diesel (C10-C28)	841	50.0	mg/kg	1000	136	70.5	53-125	1.33	20	
Surrogate: o-Terphenyl	38		"	50.0		77.0	59-131			
Matrix Spike Dup (B7D1005-MSD2)		Source: Y704038-03			Prepared: 04/10/2017 Analyzed: 04/10/2017					
Diesel (C10-C28)	1080	50.0	mg/kg	1000	149	92.8	53-125	21.4	20	QR-02
Surrogate: o-Terphenyl	49		"	50.0		97.6	59-131			

Origins Laboratory, Inc.



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Project: NHF Laura 1

Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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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