



August 29, 2017

LT Environmental, Inc.

Jeremy Pike

4600 West 60th Avenue

Arvada

CO 80003

Project Name - Conrad 44-1

Project Number - [none]

Attached are your analytical results for Conrad 44-1 received by Origins Laboratory, Inc. August 23, 2017. This project is associated with Origins project number Y708307-01.

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

Jeremy Pike
Project Number: [none]
Project: Conrad 44-1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01	Y708307-01	Soil	August 23, 2017 14:00	08/23/2017 16:42
SS02	Y708307-02	Soil	August 23, 2017 14:05	08/23/2017 16:42
SS03	Y708307-03	Soil	August 23, 2017 14:10	08/23/2017 16:42
SS04	Y708307-04	Soil	August 23, 2017 14:15	08/23/2017 16:42
SS05	Y708307-05	Soil	August 23, 2017 14:20	08/23/2017 16:42
SS06	Y708307-06	Soil	August 23, 2017 14:25	08/23/2017 16:42
SS07	Y708307-07	Soil	August 23, 2017 14:30	08/23/2017 16:42
SS08	Y708307-08	Soil	August 23, 2017 14:40	08/23/2017 16:42
SS09	Y708307-09	Soil	August 23, 2017 14:50	08/23/2017 16:42

Origins Laboratory, Inc.



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

Jen Pellegrini For Noelle Doyle Mathis, President

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

Jeremy Pike
Project Number: [none]
Project: Conrad 44-1

www.originslaboratory.com




page 1 of 1

7108307

ORIGINS
LABORATORY, INC

Client: LT Environmental
Address: 4600 W 60th Ave
Telephone Number:
Email Address: J.Pike@LTENV.com

Project Manager: Jeremy Pike
Project Name: Conrad 44-1
Project Number:
Samples Collected By: Glenn Thompson

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix			Analysis	Sample Instructions			
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other					
SS01	8/23/17	1400	1	X					X			X	870, 870, 870, etc. Pb, etc.	1	Sample Instructions	
SS02	8/23/17	1405	1	X					X			X		2		
SS03	8/23/17	1410	1	X					X			X		3		
SS04	8/23/17	1415	1	X					X			X		4		
SS05	8/23/17	1420	1	X					X			X		5		
SS06	8/23/17	1425	1	X					X			X		6		
SS07	8/23/17	1430	1	X					X			X		7		
SS08	8/23/17	1440	4	X					X			X		8		hold JAL
SS09	8/23/17	1450	1	X					X			X		9		
														10		
Relinquished By: 	Date: 8/23/17	Time: 1642		Received By: 				Date: 8/23/17	Time: 1642	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input checked="" type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>						
Relinquished By: 	Date: 8/23/17	Time: 1642						Date: 8/23/17	Time: 1642							

Origins Laboratory, Inc.

Jefe Pellegrini

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

Jeremy Pike
Project Number: [none]
Project: Conrad 44-1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4708307

Client: LTE

Client Project ID: Conrad 44-1

Checklist Completed by: Jen Pellegrini

Shipped Via: HD

Date/time completed: 8/23/17

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

Airbill #: JA

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

Cooler Number/Temperature: 1 / 9.4 °C _____ / _____ °C _____ / _____ °C (Describe)

Thermometer ID: TU3

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>Sampled 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 HNO ₃ , HCL, H ₂ SO ₄ / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 8/24/17

Origins Laboratory, Inc.

Jen Pellegrini

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

Jeremy Pike
Project Number: [none]
Project: Conrad 44-1

SS01

8/23/2017 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y708307-01 (Soil)

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

Diesel (C10-C28)	175	50.0	mg/kg	1	B7H2407	08/24/2017	08/25/2017
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Surrogate: o-Terphenyl	91.0 %	59-131			"	"	"
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7H2406	08/24/2017	08/24/2017	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	109 %	70-130			"	"	"
Surrogate: Toluene-d8	99.1 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Jeremy Pike
Project Number: [none]
Project: Conrad 44-1

SS02**8/23/2017 2:05:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y708307-02 (Soil)**Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	722	50.0	mg/kg	1	B7H2407	08/24/2017	08/25/2017
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Surrogate: o-Terphenyl	121 %	59-131			"	"	"
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7H2406	08/24/2017	08/24/2017	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	107 %	70-130			"	"	"
Surrogate: Toluene-d8	100 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Jeremy Pike
Project Number: [none]
Project: Conrad 44-1

SS03

8/23/2017 2:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y708307-03 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7H2407	08/24/2017	08/25/2017	U
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Surrogate: o-Terphenyl	85.7 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7H2406	08/24/2017	08/24/2017	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	110 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.5 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Jeremy Pike
Project Number: [none]
Project: Conrad 44-1

SS04**8/23/2017 2:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y708307-04 (Soil)**Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7H2407	08/24/2017	08/25/2017	U
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Surrogate: o-Terphenyl	89.4 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7H2406	08/24/2017	08/24/2017	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	110 %	70-130			"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.5 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Jeremy Pike
Project Number: [none]
Project: Conrad 44-1

SS05

8/23/2017 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y708307-05 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7H2407	08/24/2017	08/25/2017	U
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Surrogate: o-Terphenyl	84.6 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7H2406	08/24/2017	08/24/2017	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	106 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.3 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.7 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Jeremy Pike
Project Number: [none]
Project: Conrad 44-1

SS06

8/23/2017 2:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y708307-06 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7H2407	08/24/2017	08/25/2017	U
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Surrogate: o-Terphenyl	76.8 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7H2406	08/24/2017	08/24/2017	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	105 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Jeremy Pike
Project Number: [none]
Project: Conrad 44-1

SS07

8/23/2017 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y708307-07 (Soil)

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

Diesel (C10-C28)	115	50.0	mg/kg	1	B7H2407	08/24/2017	08/25/2017
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Surrogate: o-Terphenyl	90.4 %	59-131			"	"	"
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7H2406	08/24/2017	08/24/2017	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	107 %	70-130			"	"	"
Surrogate: Toluene-d8	98.8 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	99.5 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Jeremy Pike
Project Number: [none]
Project: Conrad 44-1

SS08

8/23/2017 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y708307-08 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7H2407	08/24/2017	08/25/2017	U
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Surrogate: o-Terphenyl	84.6 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7H2406	08/24/2017	08/24/2017	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	111 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.4 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	


pH in Soil by EPA 9045D

pH	7.93		pH Units	1	B7H2408	08/24/2017	08/24/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.672		mmhos/cm	"	B7H2409	08/24/2017	08/24/2017	
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Origins Laboratory, Inc.



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

Jeremy Pike
Project Number: [none]
Project: Conrad 44-1

SS09

8/23/2017 2:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y708307-09 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7H2407	08/24/2017	08/25/2017	U
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Surrogate: o-Terphenyl	81.3 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7H2406	08/24/2017	08/24/2017	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	109 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.0 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.5 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Jeremy Pike
Project Number: [none]
Project: Conrad 44-1

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 B7H2406 - EPA 5030 (soil)										
Blank (B7H2406-BLK1)					Prepared: 08/24/2017 Analyzed: 08/24/2017					
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		103	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	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

Jeremy Pike
Project Number: [none]
Project: Conrad 44-1

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 B7H2406 - EPA 5030 (soil)										
Blank (B7H2406-BLK2)					Prepared: 08/24/2017 Analyzed: 08/24/2017					
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	66		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

Origins Laboratory, Inc.



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

Jeremy Pike
Project Number: [none]
Project: Conrad 44-1

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 B7H2406 - EPA 5030 (soil)										
LCS (B7H2406-BS1)					Prepared: 08/24/2017 Analyzed: 08/24/2017					
Benzene	0.100	0.002	mg/kg	0.100		99.6	77.1-124			
Toluene	0.099	0.002	"	0.100		98.7	74.5-128			
Ethylbenzene	0.097	0.002	"	0.100		97.0	66.4-127			
m,p-Xylene	0.195	0.004	"	0.200		97.4	76.6-124			
o-Xylene	0.099	0.002	"	0.100		99.2	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.9	70-130			

Origins Laboratory, Inc.



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

Jeremy Pike
Project Number: [none]
Project: Conrad 44-1

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 B7H2406 - EPA 5030 (soil)										
LCS (B7H2406-BS2)					Prepared: 08/24/2017 Analyzed: 08/24/2017					
Benzene	0.105	0.002	mg/kg	0.100		105	77.1-124			
Toluene	0.103	0.002	"	0.100		103	74.5-128			
Ethylbenzene	0.103	0.002	"	0.100		103	66.4-127			
m,p-Xylene	0.210	0.004	"	0.200		105	76.6-124			
o-Xylene	0.106	0.002	"	0.100		106	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.2	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

Jeremy Pike
Project Number: [none]
Project: Conrad 44-1

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 B7H2406 - EPA 5030 (soil)

Matrix Spike (B7H2406-MS1)		Source: Y708307-01			Prepared: 08/24/2017 Analyzed: 08/24/2017					
Benzene	0.100	0.002	mg/kg	0.100	ND	100	71.8-126			
Toluene	0.095	0.002	"	0.100	ND	95.4	65.1-130			
Ethylbenzene	0.090	0.002	"	0.100	ND	90.2	62.2-130			
m,p-Xylene	0.182	0.004	"	0.200	ND	91.2	46.5-137			
o-Xylene	0.093	0.002	"	0.100	ND	92.8	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.4	70-130			

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

Jeremy Pike
Project Number: [none]
Project: Conrad 44-1

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 B7H2406 - EPA 5030 (soil)

Matrix Spike (B7H2406-MS2)		Source: Y708307-02			Prepared: 08/24/2017 Analyzed: 08/24/2017					
Benzene	0.089	0.002	mg/kg	0.100	ND	88.9	71.8-126			
Toluene	0.083	0.002	"	0.100	ND	82.9	65.1-130			
Ethylbenzene	0.081	0.002	"	0.100	ND	80.5	62.2-130			
m,p-Xylene	0.157	0.004	"	0.200	ND	78.6	46.5-137			
o-Xylene	0.081	0.002	"	0.100	ND	80.9	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

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LT Environmental, Inc.
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Jeremy Pike
Project Number: [none]
Project: Conrad 44-1

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 B7H2406 - EPA 5030 (soil)

Matrix Spike Dup (B7H2406-MSD1)		Source: Y708307-01			Prepared: 08/24/2017 Analyzed: 08/24/2017					
Benzene	0.101	0.002	mg/kg	0.100	ND	101	71.8-126	1.21	11.3	
Toluene	0.096	0.002	"	0.100	ND	96.5	65.1-130	1.17	15.4	
Ethylbenzene	0.093	0.002	"	0.100	ND	93.3	62.2-130	3.36	19.6	
m,p-Xylene	0.187	0.004	"	0.200	ND	93.6	46.5-137	2.64	19.2	
o-Xylene	0.095	0.002	"	0.100	ND	95.2	54.2-134	2.55	17.9	
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.8	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.3	70-130			

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LT Environmental, Inc.
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Jeremy Pike
Project Number: [none]
Project: Conrad 44-1

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 B7H2406 - EPA 5030 (soil)

Matrix Spike Dup (B7H2406-MSD2)		Source: Y708307-02			Prepared: 08/24/2017 Analyzed: 08/24/2017					
Benzene	0.096	0.002	mg/kg	0.100	ND	95.9	71.8-126	7.53	11.3	
Toluene	0.089	0.002	"	0.100	ND	89.0	65.1-130	7.03	15.4	
Ethylbenzene	0.082	0.002	"	0.100	ND	82.3	62.2-130	2.14	19.6	
m,p-Xylene	0.164	0.004	"	0.200	ND	81.9	46.5-137	4.07	19.2	
o-Xylene	0.084	0.002	"	0.100	ND	83.9	54.2-134	3.59	17.9	
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



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Jeremy Pike
Project Number: [none]
Project: Conrad 44-1

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 B7H2407 - EPA 3550B

Blank (B7H2407-BLK1)

Prepared: 08/24/2017 Analyzed: 08/25/2017

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

43	"	50.0	85.2	59-131
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Blank (B7H2407-BLK2)

Prepared: 08/24/2017 Analyzed: 08/25/2017

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

41	"	50.0	82.0	59-131
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LCS (B7H2407-BS1)

Prepared: 08/24/2017 Analyzed: 08/25/2017

Diesel (C10-C28)	1000	50.0	mg/kg	1000	100	64-121
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Surrogate: o-Terphenyl

48	"	50.0	96.0	59-131
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LCS (B7H2407-BS2)

Prepared: 08/24/2017 Analyzed: 08/25/2017

Diesel (C10-C28)	960	50.0	mg/kg	1000	96.0	64-121
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Surrogate: o-Terphenyl

44	"	50.0	88.8	59-131
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Matrix Spike (B7H2407-MS1)

Source: Y708307-01

Prepared: 08/24/2017 Analyzed: 08/25/2017

Diesel (C10-C28)	1010	50.0	mg/kg	1000	175	84.0	53-125
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Surrogate: o-Terphenyl

45	"	50.0	89.1	59-131
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Matrix Spike (B7H2407-MS2)

Source: Y708307-02

Prepared: 08/24/2017 Analyzed: 08/25/2017

Diesel (C10-C28)	1730	50.0	mg/kg	1000	722	101	53-125
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Surrogate: o-Terphenyl

66	"	50.0	131	59-131
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Origins Laboratory, Inc.



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

Jeremy Pike
Project Number: [none]
Project: Conrad 44-1

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 B7H2407 - EPA 3550B										
Matrix Spike Dup (B7H2407-MSD1)		Source: Y708307-01			Prepared: 08/24/2017 Analyzed: 08/25/2017					
Diesel (C10-C28)	991	50.0	mg/kg	1000	175	81.6	53-125	2.37	20	
Surrogate: o-Terphenyl	44		"	50.0		88.5	59-131			
Matrix Spike Dup (B7H2407-MSD2)		Source: Y708307-02			Prepared: 08/24/2017 Analyzed: 08/25/2017					
Diesel (C10-C28)	1560	50.0	mg/kg	1000	722	83.5	53-125	10.8	20	
Surrogate: o-Terphenyl	63		"	50.0		126	59-131			

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Arvada CO 80003

Jeremy Pike
Project Number: [none]
Project: Conrad 44-1

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 B7H2408 - NO PREP										
Duplicate (B7H2408-DUP1)		Source: Y708307-08			Prepared: 08/24/2017 Analyzed: 08/24/2017					
pH	8.01		pH Units		7.93			1.00	25	
Batch B7H2409 - NO PREP										
Blank (B7H2409-BLK1)		Prepared: 08/24/2017 Analyzed: 08/24/2017								
Specific Conductance (EC)	0.00280		mmhos/cm							
Duplicate (B7H2409-DUP1)		Source: Y708307-08			Prepared: 08/24/2017 Analyzed: 08/24/2017					
Specific Conductance (EC)	0.633		mmhos/cm		0.672			5.89	25	

Origins Laboratory, Inc.



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

Jeremy Pike
Project Number: [none]
Project: Conrad 44-1

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President