



January 23, 2015

LT Environmental, Inc.

Rob Rebel

4600 West 60th Avenue

Arvada CO 80003

Project Name - Rosenberg 6-61-30 NE

Project Number - 027315003

Attached are your analytical results for Rosenberg 6-61-30 NE received by Origins Laboratory, Inc. January 16, 2015. This project is associated with Origins project number X501169-01.

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: 027315003  
Project: Rosenberg 6-61-30 NE

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01	X501169-01	Soil	January 16, 2015 13:35	01/16/2015 15:37
SS02	X501169-02	Soil	January 16, 2015 13:40	01/16/2015 15:37
SS03	X501169-03	Soil	January 16, 2015 13:46	01/16/2015 15:37
SS04	X501169-04	Soil	January 16, 2015 13:50	01/16/2015 15:37
SS05	X501169-05	Soil	January 16, 2015 13:55	01/16/2015 15:37
SS06	X501169-06	Soil	January 16, 2015 14:00	01/16/2015 15:37

Origins Laboratory, Inc.



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Noelle Doyle Mathis, President



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

Rob Rebel  
 Project Number: 027315003  
 Project: Rosenberg 6-61-30 NE

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

Sample Receipt Checklist

Origins Work Order: X501169 Client: LTE  
 Client Project ID: Rosenberg 6-61-36 NE  
 Checklist Completed by: Jen Pellegrini Shipped Via: Pickup  
 Date/time completed: 01-19-15 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1 / 4.5 °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 <sup>(1)</sup> ?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact <sup>(1)</sup> ?	X			
Was adequate sample volume provided <sup>(1)</sup> ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		X		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	X			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	X			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	X			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			X	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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)			X	
Additional Comments (if any):				

<sup>(1)</sup> 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.

[Signature] Reviewed by (Project Manager) 1/19/15  
Date/Time Reviewed

Origins Laboratory, Inc.



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

Rob Rebel  
 Project Number: 027315003  
 Project: Rosenberg 6-61-30 NE

SS01

1/16/2015 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
 X501169-01 (Soil)

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

Diesel (C10-C28)	472	50.0	mg/kg	1	5A20011	01/20/2015	01/20/2015
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<i>Surrogate: o-Terphenyl</i>	98.4 %	59-131			"	"	"
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	20.0	5.00	mg/kg	25	5A20012	01/20/2015	01/20/2015
Benzene	ND	0.050	"	"	"	"	"
Toluene	0.107	0.050	"	"	"	"	"
Ethylbenzene	0.117	0.050	"	"	"	"	"
Xylenes, total	0.495	0.050	"	"	"	"	"

<i>Surrogate: 1,2-Dichloroethane-d4</i>	116 %	70-130			"	"	"
<i>Surrogate: Toluene-d8</i>	102 %	70-130			"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>	103 %	70-130			"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.  
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 Arvada CO 80003

Rob Rebel  
 Project Number: 027315003  
 Project: Rosenberg 6-61-30 NE

**SS02**

1/16/2015 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 X501169-02 (Soil)

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

Diesel (C10-C28)	288	50.0	mg/kg	1	5A20011	01/20/2015	01/20/2015
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<i>Surrogate: o-Terphenyl</i>	101 %	59-131			"	"	"
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	4.80	0.200	mg/kg	1	5A20012	01/20/2015	01/20/2015
Benzene	0.002	0.002	"	"	"	"	"
Toluene	0.010	0.002	"	"	"	"	"
Ethylbenzene	0.016	0.002	"	"	"	"	"
Xylenes, total	0.081	0.002	"	"	"	"	"

<i>Surrogate: 1,2-Dichloroethane-d4</i>	108 %	70-130			"	"	"
<i>Surrogate: Toluene-d8</i>	99.2 %	70-130			"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>	112 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Rob Rebel  
 Project Number: 027315003  
 Project: Rosenberg 6-61-30 NE

**SS03**

1/16/2015 1:46:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 X501169-03 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	5A20011	01/20/2015	01/20/2015	
<i>Surrogate: o-Terphenyl</i>	104 %	59-131			"	"	"	

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5A20012	01/20/2015	01/20/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	<b>0.003</b>	0.002	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	107 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	100 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	102 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Rob Rebel  
 Project Number: 027315003  
 Project: Rosenberg 6-61-30 NE

SS04

1/16/2015 1:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
 X501169-04 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	5A20011	01/20/2015	01/20/2015	
<i>Surrogate: o-Terphenyl</i>	102 %	59-131			"	"	"	

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5A20012	01/20/2015	01/20/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	109 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	98.2 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	101 %	70-130			"	"	"	

Origins Laboratory, Inc.



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 4600 West 60th Avenue  
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Rob Rebel  
 Project Number: 027315003  
 Project: Rosenberg 6-61-30 NE

SS05

1/16/2015 1:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
 X501169-05 (Soil)

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

Diesel (C10-C28)	722	50.0	mg/kg	1	5A20011	01/20/2015	01/20/2015
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<i>Surrogate: o-Terphenyl</i>	102 %	59-131			"	"	"
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	361	5.00	mg/kg	25	5A20012	01/20/2015	01/21/2015
Benzene	ND	0.050	"	"	"	"	"
Toluene	0.405	0.050	"	"	"	"	"
Ethylbenzene	1.15	0.050	"	"	"	"	"
Xylenes, total	5.46	0.050	"	"	"	"	"

<i>Surrogate: 1,2-Dichloroethane-d4</i>	113 %	70-130			"	"	"
<i>Surrogate: Toluene-d8</i>	105 %	70-130			"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>	113 %	70-130			"	"	"

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Rob Rebel  
 Project Number: 027315003  
 Project: Rosenberg 6-61-30 NE

**SS06**

1/16/2015 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 X501169-06 (Soil)

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

Diesel (C10-C28)	20700	500	mg/kg	10	5A20011	01/20/2015	01/21/2015	
<i>Surrogate: o-Terphenyl</i>	109 %	59-131			"	"	01/20/2015	

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	2750	50.0	mg/kg	250	5A20012	01/20/2015	01/20/2015	
Benzene	12.6	0.498	"	"	"	"	"	
Toluene	57.4	0.498	"	"	"	"	"	
Ethylbenzene	30.5	0.498	"	"	"	"	"	
Xylenes, total	100	0.498	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	111 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	126 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	105 %	70-130			"	"	"	

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Rob Rebel  
 Project Number: 027315003  
 Project: Rosenberg 6-61-30 NE

**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 5A20012 - EPA 5030 (soil)

**Blank (5A20012-BLK1)**

Prepared: 01/20/2015 Analyzed: 01/20/2015

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>61.2</i>		<i>ug/kg</i>	<i>62.5</i>		<i>97.9</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>60.4</i>		<i>"</i>	<i>62.5</i>		<i>96.7</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>61.6</i>		<i>"</i>	<i>62.5</i>		<i>98.6</i>	<i>70-130</i>			

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 Arvada CO 80003

Rob Rebel  
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 Project: Rosenberg 6-61-30 NE

**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 5A20012 - EPA 5030 (soil)

LCS (5A20012-BS1)

Prepared: 01/20/2015 Analyzed: 01/20/2015

Benzene	0.100	0.002	mg/kg	0.100		100	77.1-124			
Toluene	0.101	0.002	"	0.100		101	74.5-128			
Ethylbenzene	0.102	0.002	"	0.100		102	66.4-127			
m,p-Xylene	0.199	0.004	"	0.200		99.7	76.6-124			
o-Xylene	0.107	0.002	"	0.100		107	76.6-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>65.2</i>		<i>ug/kg</i>	<i>62.5</i>		<i>104</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>61.4</i>		<i>"</i>	<i>62.5</i>		<i>98.2</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>61.5</i>		<i>"</i>	<i>62.5</i>		<i>98.4</i>	<i>70-130</i>			

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 Arvada CO 80003

Rob Rebel  
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 Project: Rosenberg 6-61-30 NE

**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 5A20012 - EPA 5030 (soil)

Matrix Spike (5A20012-MS1)	Source: X501170-01			Prepared: 01/20/2015 Analyzed: 01/20/2015						
Benzene	0.074	0.002	mg/kg	0.100	ND	74.1	71.8-126			
Toluene	0.078	0.002	"	0.100	ND	77.6	65.1-130			
Ethylbenzene	0.077	0.002	"	0.100	ND	77.1	62.2-130			
m,p-Xylene	0.154	0.004	"	0.200	ND	77.1	46.5-137			
o-Xylene	0.073	0.002	"	0.100	ND	73.1	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	60.2		ug/kg	62.5		96.3	70-130			
Surrogate: Toluene-d8	62.1		"	62.5		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	65.5		"	62.5		105	70-130			

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 Project: Rosenberg 6-61-30 NE

**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 5A20012 - EPA 5030 (soil)

Matrix Spike Dup (5A20012-MSD1)	Source: X501170-01			Prepared: 01/20/2015 Analyzed: 01/20/2015						
Benzene	0.081	0.002	mg/kg	0.100	ND	81.3	71.8-126	9.32	11.3	
Toluene	0.077	0.002	"	0.100	ND	76.9	65.1-130	0.855	15.4	
Ethylbenzene	0.079	0.002	"	0.100	ND	78.5	62.2-130	1.88	19.6	
m,p-Xylene	0.156	0.004	"	0.200	ND	77.9	46.5-137	1.10	19.2	
o-Xylene	0.078	0.002	"	0.100	ND	78.0	54.2-134	6.49	17.9	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>62.1</i>		<i>ug/kg</i>	<i>62.5</i>		<i>99.4</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>61.2</i>		<i>"</i>	<i>62.5</i>		<i>97.8</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>63.5</i>		<i>"</i>	<i>62.5</i>		<i>102</i>	<i>70-130</i>			

Origins Laboratory, Inc.



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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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**Extractable Petroleum Hydrocarbons by 8015M - 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 5A20011 - EPA 3580

**Blank (5A20011-BLK1)**

Prepared: 01/20/2015 Analyzed: 01/20/2015

Diesel (C10-C28)	ND	50.0	mg/kg							
Surrogate: o-Terphenyl	55		"	50.0		110	59-131			

**LCS (5A20011-BS1)**

Prepared: 01/20/2015 Analyzed: 01/20/2015

Diesel (C10-C28)	955	50.0	mg/kg	1000		95.5	64-121			
Surrogate: o-Terphenyl	51		"	50.0		101	59-131			

**Matrix Spike (5A20011-MS1)**

Source: X501170-01

Prepared: 01/20/2015 Analyzed: 01/20/2015

Diesel (C10-C28)	940	50.0	mg/kg	1000	19.4	92.0	53-125			
Surrogate: o-Terphenyl	50		"	50.0		100	59-131			

**Matrix Spike Dup (5A20011-MSD1)**

Source: X501170-01

Prepared: 01/20/2015 Analyzed: 01/20/2015

Diesel (C10-C28)	973	50.0	mg/kg	1000	19.4	95.4	53-125	3.51	20	
Surrogate: o-Terphenyl	50		"	50.0		99.7	59-131			

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Project Number: 027315003  
Project: Rosenberg 6-61-30 NE

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### Notes and Definitions

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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---

Noelle Doyle Mathis, President



February 17, 2015

LT Environmental, Inc.

Rob Rebel

4600 West 60th Avenue

Arvada CO 80003

Project Name - Rosenberg 6-61-30 NE

Project Number - 027315003

Attached are your analytical results for Rosenberg 6-61-30 NE received by Origins Laboratory, Inc. February 11, 2015. This project is associated with Origins project number X502124-01.

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.

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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: 027315003  
Project: Rosenberg 6-61-30 NE

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS05	X502124-01	Soil	February 11, 2015 11:12	02/11/2015 13:39
SS06	X502124-02	Soil	February 11, 2015 11:03	02/11/2015 13:39

Origins Laboratory, Inc.



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

Rob Rebel  
 Project Number: 027315003  
 Project: Rosenberg 6-61-30 NE

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

Sample Receipt Checklist

Origins Work Order: X502124 Client: LTE  
 Client Project ID: Rosenberg 6-61-30 NE  
 Checklist Completed by: Jefe Smith Shipped Via: HD  
 Date/time completed: 2/11/15 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: NA  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1 / 14.6 °C  / \_\_\_\_\_ °C  / \_\_\_\_\_ °C (Describe)  
 Thermometer ID: TR65

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

<sup>(1)</sup>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: Jefe Smith (Project Manager) Date/Time Reviewed: 02-12-15

Origins Laboratory, Inc.



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

Rob Rebel  
 Project Number: 027315003  
 Project: Rosenberg 6-61-30 NE

**SS05**

**2/11/2015 11:12:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X502124-01 (Soil)**

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

Diesel (C10-C28)	1060	50.0	mg/kg	1	5B11008	02/11/2015	02/11/2015	
Surrogate: o-Terphenyl	98.4 %	59-131			"	"	"	

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	17.8	0.200	mg/kg	1	5B11009	02/11/2015	02/12/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	0.074	0.002	"	"	"	"	"	
Ethylbenzene	0.167	0.002	"	"	"	"	"	
Xylenes, total	1.62	0.050	"	25	"	"	02/12/2015	
Surrogate: 1,2-Dichloroethane-d4	126 %	70-130			"	"	"	
Surrogate: Toluene-d8	104 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	108 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Rob Rebel  
 Project Number: 027315003  
 Project: Rosenberg 6-61-30 NE

**SS06**

**2/11/2015 11:03:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X502124-02 (Soil)**

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

Diesel (C10-C28)	<b>86.2</b>	50.0	mg/kg	1	5B11008	02/11/2015	02/11/2015	
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Surrogate: <i>o</i> -Terphenyl	90.9 %	59-131			"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	<b>2.98</b>	0.200	mg/kg	1	5B11009	02/11/2015	02/12/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	<b>0.003</b>	0.002	"	"	"	"	"	
Xylenes, total	<b>0.076</b>	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	128 %	70-130			"	"	02/12/2015	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	109 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Rob Rebel  
 Project Number: 027315003  
 Project: Rosenberg 6-61-30 NE

**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 5B11009 - EPA 5030 (soil)**

**Blank (5B11009-BLK1)**

Prepared: 02/11/2015 Analyzed: 02/11/2015

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Surrogate: 1,2-Dichloroethane-d4	79.3		ug/kg	62.5		127	70-130			
Surrogate: Toluene-d8	64.1		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	66.0		"	62.5		106	70-130			

Origins Laboratory, Inc.



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

Rob Rebel  
 Project Number: 027315003  
 Project: Rosenberg 6-61-30 NE

**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 5B11009 - EPA 5030 (soil)**

**LCS (5B11009-BS1)**

Prepared: 02/11/2015 Analyzed: 02/11/2015

Benzene	0.102	0.002	mg/kg	0.100		102	77.1-124			
Toluene	0.100	0.002	"	0.100		100	74.5-128			
Ethylbenzene	0.106	0.002	"	0.100		106	66.4-127			
m,p-Xylene	0.214	0.004	"	0.200		107	76.6-124			
o-Xylene	0.110	0.002	"	0.100		110	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	77.3		ug/kg	62.5		124	70-130			
Surrogate: Toluene-d8	63.8		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	68.7		"	62.5		110	70-130			

Origins Laboratory, Inc.



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

Rob Rebel  
 Project Number: 027315003  
 Project: Rosenberg 6-61-30 NE

**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 5B11009 - EPA 5030 (soil)**

<b>Matrix Spike (5B11009-MS1)</b>	<b>Source: X502122-01</b>			<b>Prepared: 02/11/2015 Analyzed: 02/11/2015</b>						
Benzene	0.104	0.002	mg/kg	0.100	ND	104	71.8-126			
Toluene	0.103	0.002	"	0.100	ND	103	65.1-130			
Ethylbenzene	0.108	0.002	"	0.100	ND	108	62.2-130			
m,p-Xylene	0.217	0.004	"	0.200	ND	109	46.5-137			
o-Xylene	0.110	0.002	"	0.100	ND	110	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	76.2		ug/kg	62.5		122	70-130			
Surrogate: Toluene-d8	63.3		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	68.0		"	62.5		109	70-130			

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Rob Rebel  
 Project Number: 027315003  
 Project: Rosenberg 6-61-30 NE

**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 5B11009 - EPA 5030 (soil)**

<b>Matrix Spike Dup (5B11009-MSD1)</b>	<b>Source: X502122-01</b>			<b>Prepared: 02/11/2015 Analyzed: 02/11/2015</b>						
Benzene	0.099	0.002	mg/kg	0.100	ND	99.4	71.8-126	4.62	11.3	
Toluene	0.099	0.002	"	0.100	ND	99.2	65.1-130	3.29	15.4	
Ethylbenzene	0.106	0.002	"	0.100	ND	106	62.2-130	2.27	19.6	
m,p-Xylene	0.215	0.004	"	0.200	ND	107	46.5-137	1.13	19.2	
o-Xylene	0.106	0.002	"	0.100	ND	106	54.2-134	3.84	17.9	
Surrogate: 1,2-Dichloroethane-d4	76.5		ug/kg	62.5		122	70-130			
Surrogate: Toluene-d8	62.6		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	69.6		"	62.5		111	70-130			

Origins Laboratory, Inc.



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

Rob Rebel  
 Project Number: 027315003  
 Project: Rosenberg 6-61-30 NE

**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 8015M - 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 5B11008 - EPA 3580**

**Blank (5B11008-BLK1)**

Prepared: 02/11/2015 Analyzed: 02/11/2015

Diesel (C10-C28)	ND	50.0	mg/kg							
Surrogate: o-Terphenyl	59		"	50.0		118	59-131			

**LCS (5B11008-BS1)**

Prepared: 02/11/2015 Analyzed: 02/11/2015

Diesel (C10-C28)	957	50.0	mg/kg	1000		95.7	64-121			
Surrogate: o-Terphenyl	52		"	50.0		105	59-131			

**LCS Dup (5B11008-BSD1)**

Prepared: 02/11/2015 Analyzed: 02/11/2015

Diesel (C10-C28)	849	50.0	mg/kg	1000		84.9	64-121	12.0	20	
Surrogate: o-Terphenyl	46		"	50.0		91.1	59-131			

Origins Laboratory, Inc.



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

Rob Rebel  
Project Number: 027315003  
Project: Rosenberg 6-61-30 NE

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### Notes and Definitions

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.*

---

Jen Pellegrini For Noelle Doyle Mathis, President



February 26, 2015

LT Environmental, Inc.

Rob Rebel

4600 West 60th Avenue

Arvada CO 80003

Project Name - Rosenberg 6-61-30 NE

Project Number - 027315003

Attached are your analytical results for Rosenberg 6-61-30 NE received by Origins Laboratory, Inc. February 18, 2015. This project is associated with Origins project number X502225-01.

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: 027315003  
Project: Rosenberg 6-61-30 NE

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS05	X502225-01	Soil	February 18, 2015 9:30	02/18/2015 17:55

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.*

Noelle Doyle Mathis, President



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

Rob Rebel  
 Project Number: 027315003  
 Project: Rosenberg 6-61-30 NE

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X50725

Client: LTE

Client Project ID: Rosenberg 6-61-30 NE

Checklist Completed by: Jeff Smith

Shipped Via: H/D

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

Date/time completed: 2/19/15

Airbill #: NA

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_

Cooler Number/Temperature: 1 / 2.8 °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 <sup>(1)</sup> ?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact <sup>(1)</sup> ?	X			
Was adequate sample volume provided <sup>(1)</sup> ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		X		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	X			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	X			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	X			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			X	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 <sub>3</sub> , HCl, H <sub>2</sub> SO <sub>4</sub> / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			X	
Additional Comments (if any):				

<sup>(1)</sup>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.

[Signature]  
 Reviewed by (Project Manager)

02-20-15  
 Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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

Rob Rebel  
 Project Number: 027315003  
 Project: Rosenberg 6-61-30 NE

SS05

2/18/2015 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
 X502225-01 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	5B19009	02/19/2015	02/19/2015	
<i>Surrogate: o-Terphenyl</i>	98.5 %	59-131			"	"	"	

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	0.305	0.200	mg/kg	1	5B19008	02/19/2015	02/20/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	116 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	109 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	102 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Rob Rebel  
 Project Number: 027315003  
 Project: Rosenberg 6-61-30 NE

**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 5B19008 - EPA 5030 (soil)

**Blank (5B19008-BLK1)**

Prepared: 02/19/2015 Analyzed: 02/19/2015

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>60.5</i>		<i>ug/kg</i>	<i>62.5</i>		<i>96.8</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>68.5</i>		<i>"</i>	<i>62.5</i>		<i>110</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>57.6</i>		<i>"</i>	<i>62.5</i>		<i>92.2</i>	<i>70-130</i>			

Origins Laboratory, Inc.



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Noelle Doyle Mathis, President

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

Rob Rebel  
 Project Number: 027315003  
 Project: Rosenberg 6-61-30 NE

**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 5B19008 - EPA 5030 (soil)

LCS (5B19008-BS1)

Prepared: 02/19/2015 Analyzed: 02/19/2015

Benzene	0.098	0.002	mg/kg	0.100		97.5	77.1-124			
Toluene	0.104	0.002	"	0.100		104	74.5-128			
Ethylbenzene	0.087	0.002	"	0.100		86.8	66.4-127			
m,p-Xylene	0.179	0.004	"	0.200		89.4	76.6-124			
o-Xylene	0.086	0.002	"	0.100		85.7	76.6-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>61.5</i>		<i>ug/kg</i>	<i>62.5</i>		<i>98.4</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>69.4</i>		<i>"</i>	<i>62.5</i>		<i>111</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>62.8</i>		<i>"</i>	<i>62.5</i>		<i>100</i>	<i>70-130</i>			

Origins Laboratory, Inc.



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

Rob Rebel  
 Project Number: 027315003  
 Project: Rosenberg 6-61-30 NE

**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 5B19008 - EPA 5030 (soil)

**LCS Dup (5B19008-BSD1)**

Prepared: 02/19/2015 Analyzed: 02/19/2015

Benzene	0.110	0.002	mg/kg	0.100	110	77.1-124	11.8	20		
Toluene	0.112	0.002	"	0.100	112	74.5-128	7.37	20		
Ethylbenzene	0.104	0.002	"	0.100	104	66.4-127	18.0	20		
m,p-Xylene	0.210	0.004	"	0.200	105	76.6-124	15.9	20		
o-Xylene	0.105	0.002	"	0.100	105	76.6-124	20.1	20		QR-02
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>61.1</i>		<i>ug/kg</i>	<i>62.5</i>	<i>97.7</i>	<i>70-130</i>				
<i>Surrogate: Toluene-d8</i>	<i>68.0</i>		<i>"</i>	<i>62.5</i>	<i>109</i>	<i>70-130</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>60.7</i>		<i>"</i>	<i>62.5</i>	<i>97.1</i>	<i>70-130</i>				

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: 027315003  
 Project: Rosenberg 6-61-30 NE

**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 8015M - 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 5B19009 - EPA 3580

**Blank (5B19009-BLK1)**

Prepared: 02/19/2015 Analyzed: 02/19/2015

Diesel (C10-C28) ND 50.0 mg/kg

Surrogate: o-Terphenyl 58 " 50.0 117 59-131

**LCS (5B19009-BS1)**

Prepared: 02/19/2015 Analyzed: 02/19/2015

Diesel (C10-C28) 1020 50.0 mg/kg 64-121

Surrogate: o-Terphenyl 57 " 50.0 115 59-131

**Matrix Spike (5B19009-MS1)**

Source: X502223-01

Prepared: 02/19/2015 Analyzed: 02/19/2015

Diesel (C10-C28) 1050 50.0 mg/kg 70.8 53-125

Surrogate: o-Terphenyl 49 " 50.0 97.5 59-131

**Matrix Spike Dup (5B19009-MSD1)**

Source: X502223-01

Prepared: 02/19/2015 Analyzed: 02/19/2015

Diesel (C10-C28) 1030 50.0 mg/kg 70.8 53-125 1.57 20

Surrogate: o-Terphenyl 52 " 50.0 103 59-131

Origins Laboratory, Inc.



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

Rob Rebel  
Project Number: 027315003  
Project: Rosenberg 6-61-30 NE

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### Notes and Definitions

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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Noelle Doyle Mathis, President