

TABLE 1
EXCAVATION SOIL ANALYTICAL RESULTS

PHELPS PAD
WELD COUNTY, COLORADO
SRC ENERGY, INC.

Sample ID	Date Sampled	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	TPH (mg/kg)	pH	EC (mmhos/cm)
SB01@18"	11/28/2017	>0.002	>0.002	>0.002	>0.002	3.31	484	487.31	NA	NA
SB02@12"	11/28/2017	>0.002	>0.002	>0.002	>0.002	1.99	92.9	94.89	NA	NA
SB03@6"	11/28/2017	>0.002	>0.002	0.003	0.002	0.392	134	134.392	NA	NA
SB04@6"	11/28/2017	0.002	0.007	0.012	0.130	3.45	423	426.45	NA	NA
SB05@18"	11/28/2017	0.468	3.04	1.92	12.2	352	362	714	8.28	0.0303
SB06@24"	12/8/2017	<0.200	<0.200	<0.200	<0.200	<0.200	<50.0	<50.0	NA	NA
COGCC Table 910 -1 Concentration Levels		0.17	85	100	175	-	-	500	6 to 9	4

Notes:

Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B

BOLD indicates result exceeds applicable standard

COGCC - Colorado Oil and Gas Conservation Commission

DRO - diesel range organics analyzed by EPA Method 8015C

EC - electrical conductivity

GRO - gasoline range organics analyzed by EPA Method 8260B

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter

NA - not analyzed

TPH - total petroleum hydrocarbons is the sum of GRO and DRO

-- - not applicable

< indicates result is less than the stated laboratory method reporting limit

ATTACHMENT A



December 04, 2017

LT Environmental, Inc.

Jeremy Pike

4600 West 60th Avenue

Arvada

CO 80003

Project Name - SRC - Phelps Pad

Project Number - 04717043

Attached are your analytical results for SRC - Phelps Pad received by Origins Laboratory, Inc. November 28, 2017. This project is associated with Origins project number Y711398-01.

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: 04717043
Project: SRC - Phelps Pad

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB01@18"	Y711398-01	Soil	November 28, 2017 9:45	11/28/2017 13:00
SB02@12"	Y711398-02	Soil	November 28, 2017 10:00	11/28/2017 13:00
SB03@6"	Y711398-03	Soil	November 28, 2017 10:15	11/28/2017 13:00
SB04@6"	Y711398-04	Soil	November 28, 2017 10:30	11/28/2017 13:00
SB05@18"	Y711398-05	Soil	November 28, 2017 10:45	11/28/2017 13:00

Origins Laboratory, Inc.



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Jeremy Pike
Project Number: 04717043
Project: SRC - Phelps Pad

ORIGINS

LABORATORY, INC

www.originslaboratory.com

page 1 of 1

Client: SRC Energy

Address: 5106 W. 11th Street Suite C

Greeley, CO 80634

Telephone Number: (970) 475-5742

Email Address: brogers@srcenergy.com, jpike@henv.com, skalm@henv.com

Project Manager: Jeremy Pike (jpike@henv.com)

Project Name: Phelps Pad

Project Number: 0477043

Samples Collected By: B. Finn

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis				Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	BTEX	TPH - GRO	
SB01 @ 18"	11/23/2017	0945	1	X					X		X			1
SB02 @ 12"		1000	1											2
SB03 @ 6"		1015	1											3
SB04 @ 6"		1030	1											4
SB05 @ 18"		1045	2								X	X	X	5
														6
														7
														8
														9
														10
Relinquished By: <i>B. Finn</i>	Date: 11/23/2017			Time: 1300	Received By: <i>[Signature]</i>	Date: 11-28-17	Time: 1300	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 type="checkbox"/>						
Relinquished By:	Date:			Time:	Received By:	Date:	Time:							

Temp Received: 14.1

Date Results Needed

Origins Laboratory, Inc.

Jeff Pellgrini

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

Jeremy Pike
Project Number: 04717043
Project: SRC - Phelps Pad

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1711398

Client: LTE

Client Project ID: SRC - Phelps Pad

Checklist Completed by: Dan Lee

Shipped Via: FE
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 11-29-12

Airbill #: WA

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

Cooler Number/Temperature: 1 14.1 °C 1 °C 1 °C (Describe) 1 °C

Thermometer ID: 1003

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"/>		Sampled same Day
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"/>			74
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			NO. No depths on COC -
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"/>	<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 11/29/12

Origins Laboratory, Inc.

Jefe Pellegrini

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

Jeremy Pike
Project Number: 04717043
Project: SRC - Phelps Pad

SB01@18"

11/28/2017 9:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y711398-01 (Soil)

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

Diesel (C10-C28)	484	50.0	mg/kg	1	B7K2803	11/28/2017	11/29/2017
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Surrogate: o-Terphenyl	95.0 %	59-131			"	"	"
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	3.31	0.200	mg/kg	1	B7K2802	11/28/2017	11/29/2017	
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	119 %	70-130			"	"	"
Surrogate: Toluene-d8	93.2 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Jeremy Pike
Project Number: 04717043
Project: SRC - Phelps Pad

SB02@12"

11/28/2017 10:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y711398-02 (Soil)

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

Diesel (C10-C28)	92.9	50.0	mg/kg	1	B7K2803	11/28/2017	11/29/2017
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Surrogate: o-Terphenyl	86.0 %	59-131			"	"	"
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	1.99	0.200	mg/kg	1	B7K2802	11/28/2017	11/29/2017	
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	117 %	70-130			"	"	"
Surrogate: Toluene-d8	96.1 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Jeremy Pike
Project Number: 04717043
Project: SRC - Phelps Pad

SB03@6"

11/28/2017 10:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y711398-03 (Soil)

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

Diesel (C10-C28)	134	50.0	mg/kg	1	B7K2803	11/28/2017	11/29/2017
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Surrogate: o-Terphenyl	87.8 %	59-131			"	"	"
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	0.392	0.200	mg/kg	1	B7K2802	11/28/2017	11/29/2017	
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	0.003	0.002	"	"	"	"	"	
Xylenes, total	0.002	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	119 %	70-130			"	"	"
Surrogate: Toluene-d8	96.5 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	99.1 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Jeremy Pike
Project Number: 04717043
Project: SRC - Phelps Pad

SB04@6"

11/28/2017 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y711398-04 (Soil)

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

Diesel (C10-C28)	423	50.0	mg/kg	1	B7K2803	11/28/2017	11/29/2017
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Surrogate: o-Terphenyl	101 %	59-131			"	"	"
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	3.45	0.200	mg/kg	1	B7K2802	11/28/2017	11/29/2017
Benzene	0.002	0.002	"	"	"	"	"
Toluene	0.007	0.002	"	"	"	"	"
Ethylbenzene	0.012	0.002	"	"	"	"	"
Xylenes, total	0.130	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	119 %	70-130			"	"	"
Surrogate: Toluene-d8	87.5 %	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

Jeremy Pike
Project Number: 04717043
Project: SRC - Phelps Pad

SB05@18"

11/28/2017 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y711398-05 (Soil)

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

Diesel (C10-C28)	362	50.0	mg/kg	1	B7K2803	11/28/2017	11/29/2017
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Surrogate: o-Terphenyl	112 %	59-131			"	"	"
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	352	5.00	mg/kg	25	B7K2802	11/28/2017	11/29/2017
Benzene	0.468	0.050	"	"	"	"	"
Toluene	3.04	0.050	"	"	"	"	"
Ethylbenzene	1.92	0.050	"	"	"	"	"
Xylenes, total	12.2	0.050	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"
Surrogate: Toluene-d8	104 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	132 %	70-130			"	"	" S-04

Metals (Saturated Paste Prep)

Calcium	3.06		me/L	1	'[none]'	11/29/2017	12/01/2017
Magnesium	3.23		"	"	"	"	"
Sodium	15.44		"	"	"	"	"

pH in Soil by EPA 9045D

pH	8.28		pH Units	1	B7K2804	11/28/2017	11/28/2017
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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: 04717043
Project: SRC - Phelps Pad

SB05@18"

11/28/2017 10:45:00AM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.
Y711398-05 (Soil)

SAR by 20B Saturated Paste

SAR	8.71			1	'[none]'	11/29/2017	12/01/2017
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0303		mmhos/cm	1	B7K2805	11/28/2017	11/28/2017
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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: 04717043
Project: SRC - Phelps Pad

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 B7K2802 - EPA 5030 (soil)										
Blank (B7K2802-BLK1)					Prepared: 11/28/2017 Analyzed: 11/28/2017					
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	65		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.8	70-130			

Origins Laboratory, Inc.



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

Jeremy Pike
Project Number: 04717043
Project: SRC - Phelps Pad

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 B7K2802 - EPA 5030 (soil)										
Blank (B7K2802-BLK2)					Prepared: 11/28/2017 Analyzed: 11/28/2017					
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	67		ug/kg	62.5		107	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.8	70-130			

Origins Laboratory, Inc.



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

Jeremy Pike
Project Number: 04717043
Project: SRC - Phelps Pad

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 B7K2802 - EPA 5030 (soil)										
LCS (B7K2802-BS1)					Prepared: 11/28/2017 Analyzed: 11/28/2017					
Benzene	0.099	0.002	mg/kg	0.100		99.0	77.1-124			
Toluene	0.103	0.002	"	0.100		103	74.5-128			
Ethylbenzene	0.099	0.002	"	0.100		99.3	66.4-127			
m,p-Xylene	0.212	0.004	"	0.200		106	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		100	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.4	70-130			

Origins Laboratory, Inc.



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

Jeremy Pike
Project Number: 04717043
Project: SRC - Phelps Pad

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 B7K2802 - EPA 5030 (soil)										
LCS (B7K2802-BS2)					Prepared: 11/28/2017 Analyzed: 11/28/2017					
Benzene	0.102	0.002	mg/kg	0.100		102	77.1-124			
Toluene	0.108	0.002	"	0.100		108	74.5-128			
Ethylbenzene	0.100	0.002	"	0.100		100	66.4-127			
m,p-Xylene	0.217	0.004	"	0.200		109	76.6-124			
o-Xylene	0.101	0.002	"	0.100		101	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.3	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		96.9	70-130			

Origins Laboratory, Inc.



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

Jeremy Pike
Project Number: 04717043
Project: SRC - Phelps Pad

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 B7K2802 - EPA 5030 (soil)

Matrix Spike (B7K2802-MS1)		Source: Y711330-03			Prepared: 11/28/2017 Analyzed: 11/28/2017					
Benzene	0.096	0.002	mg/kg	0.100	ND	96.2	71.8-126			
Toluene	0.101	0.002	"	0.100	ND	101	65.1-130			
Ethylbenzene	0.094	0.002	"	0.100	ND	94.4	62.2-130			
m,p-Xylene	0.204	0.004	"	0.200	ND	102	46.5-137			
o-Xylene	0.093	0.002	"	0.100	ND	93.2	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.9	70-130			

Origins Laboratory, Inc.



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

Jeremy Pike
Project Number: 04717043
Project: SRC - Phelps Pad

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 B7K2802 - EPA 5030 (soil)

Matrix Spike (B7K2802-MS2)		Source: Y711330-06			Prepared: 11/28/2017 Analyzed: 11/28/2017					
Benzene	0.096	0.002	mg/kg	0.100	ND	95.6	71.8-126			
Toluene	0.098	0.002	"	0.100	ND	97.6	65.1-130			
Ethylbenzene	0.091	0.002	"	0.100	0.0006	90.1	62.2-130			
m,p-Xylene	0.200	0.004	"	0.200	ND	99.9	46.5-137			
o-Xylene	0.093	0.002	"	0.100	0.0004	92.5	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.7	70-130			

Origins Laboratory, Inc.



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

Jeremy Pike
Project Number: 04717043
Project: SRC - Phelps Pad

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 B7K2802 - EPA 5030 (soil)

Matrix Spike Dup (B7K2802-MSD1)		Source: Y711330-03			Prepared: 11/28/2017 Analyzed: 11/28/2017					
Benzene	0.097	0.002	mg/kg	0.100	ND	96.9	71.8-126	0.746	11.3	
Toluene	0.103	0.002	"	0.100	ND	103	65.1-130	2.18	15.4	
Ethylbenzene	0.095	0.002	"	0.100	ND	95.4	62.2-130	0.991	19.6	
m,p-Xylene	0.203	0.004	"	0.200	ND	102	46.5-137	0.442	19.2	
o-Xylene	0.096	0.002	"	0.100	ND	96.1	54.2-134	3.02	17.9	
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.9	70-130			

Origins Laboratory, Inc.



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

Jeremy Pike
Project Number: 04717043
Project: SRC - Phelps Pad

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 B7K2802 - EPA 5030 (soil)

Matrix Spike Dup (B7K2802-MSD2)		Source: Y711330-06			Prepared: 11/28/2017 Analyzed: 11/28/2017					
Benzene	0.096	0.002	mg/kg	0.100	ND	96.4	71.8-126	0.834	11.3	
Toluene	0.101	0.002	"	0.100	ND	101	65.1-130	3.34	15.4	
Ethylbenzene	0.094	0.002	"	0.100	0.0006	93.1	62.2-130	3.32	19.6	
m,p-Xylene	0.205	0.004	"	0.200	ND	103	46.5-137	2.69	19.2	
o-Xylene	0.096	0.002	"	0.100	0.0004	95.5	54.2-134	3.24	17.9	
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.0	70-130			

Origins Laboratory, Inc.



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4600 West 60th Avenue
Arvada CO 80003

Jeremy Pike
Project Number: 04717043
Project: SRC - Phelps Pad

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 B7K2803 - EPA 3550B

Blank (B7K2803-BLK1)				Prepared: 11/28/2017 Analyzed: 11/29/2017						
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	41		"	50.0		81.0	59-131			
Blank (B7K2803-BLK2)				Prepared: 11/28/2017 Analyzed: 11/30/2017						
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	46		"	50.0		91.6	59-131			
LCS (B7K2803-BS1)				Prepared: 11/28/2017 Analyzed: 11/29/2017						
Diesel (C10-C28)	1000	50.0	mg/kg	1000		100	64-121			
Surrogate: o-Terphenyl	52		"	50.0		104	59-131			
LCS (B7K2803-BS2)				Prepared: 11/28/2017 Analyzed: 11/30/2017						
Diesel (C10-C28)	958	50.0	mg/kg	1000		95.8	64-121			
Surrogate: o-Terphenyl	50		"	50.0		100	59-131			
Matrix Spike (B7K2803-MS1)				Source: Y711344-01		Prepared: 11/28/2017 Analyzed: 11/29/2017				
Diesel (C10-C28)	938	50.0	mg/kg	1000	ND	93.8	53-125			
Surrogate: o-Terphenyl	48		"	50.0		96.4	59-131			
Matrix Spike (B7K2803-MS2)				Source: Y711345-01		Prepared: 11/28/2017 Analyzed: 11/30/2017				
Diesel (C10-C28)	945	50.0	mg/kg	1000	ND	94.5	53-125			
Surrogate: o-Terphenyl	54		"	50.0		107	59-131			

Origins Laboratory, Inc.



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

Jeremy Pike
Project Number: 04717043
Project: SRC - Phelps Pad

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 B7K2803 - EPA 3550B

Matrix Spike Dup (B7K2803-MSD1)		Source: Y711344-01			Prepared: 11/28/2017 Analyzed: 11/29/2017					
Diesel (C10-C28)	880	50.0	mg/kg	1000	ND	88.0	53-125	6.46	20	
Surrogate: o-Terphenyl	50		"	50.0		101	59-131			
Matrix Spike Dup (B7K2803-MSD2)		Source: Y711345-01			Prepared: 11/28/2017 Analyzed: 11/30/2017					
Diesel (C10-C28)	969	50.0	mg/kg	1000	ND	96.9	53-125	2.50	20	
Surrogate: o-Terphenyl	50		"	50.0		99.7	59-131			

Origins Laboratory, Inc.



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

Jeremy Pike
Project Number: 04717043
Project: SRC - Phelps Pad

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 B7K2804 - NO PREP										
Duplicate (B7K2804-DUP1)		Source: Y711351-01			Prepared: 11/28/2017 Analyzed: 11/28/2017					
pH	7.42		pH Units		7.98			7.27	25	
Batch B7K2805 - NO PREP										
Blank (B7K2805-BLK1)		Prepared: 11/28/2017 Analyzed: 11/28/2017								
Specific Conductance (EC)	0.00330		mmhos/cm							
Duplicate (B7K2805-DUP1)		Source: Y711351-01			Prepared: 11/28/2017 Analyzed: 11/28/2017					
Specific Conductance (EC)	0.0558		mmhos/cm		0.0584			4.55	25	

Origins Laboratory, Inc.



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

Jeremy Pike
Project Number: 04717043
Project: SRC - Phelps Pad

Notes and Definitions

U Sample is Non-Detect.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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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December 15, 2017

LT Environmental, Inc.

Jeremy Pike

4600 West 60th Avenue

Arvada

CO 80003

Project Name - SRC - Phelps Pad

Project Number - 04717043

Attached are your analytical results for SRC - Phelps Pad received by Origins Laboratory, Inc. December 08, 2017. This project is associated with Origins project number Y712147-01.

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: 04717043

Project: SRC - Phelps Pad

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB06@2'	Y712147-01	Soil	December 8, 2017 12:20	12/08/2017 13:31

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.

Jeremy Pike
Project Number: 04717043
Project: SRC - Phelps Pad

ORIGINS
LABORATORY, INC

Client: SRL Energy

Address: 5400 W 11th Street, Suite C
Greely, CO 80634

Telephone Number: (470) 475-5242

Email Address: briggs@sscenergy.com, jlike@henv.com, skohn@henv.com, bion@henv.com

www.originslaboratory.com

page 1 of 1

Temp Received: 10.2

Date Results Needed

Project Manager: Jeremy Like

Project Name: Phelps Pad

Project Number: 04717043

Samples Collected By: BF

1725 Elk Place

Denver, CO 80211

Phone: 303.433.1322

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	As Surrogate Contaminant #	Other	TPH - GLO	TPH - PRO		
SRL04021	12/08/2017	1220	1	X					X				X	X	1
															2
															3
															4
															5
															6
															7
															8
															9
															10

Relinquished By: [Signature]

Relinquished By: [Signature]

Date: 12/08/2017

Date: 12/08/2017

Time: 1330

Time: 1331

Received By: [Signature]

Received By: [Signature]

Date: 12/08/17

Date: 12/08/17

Time: 1331

Time: 1331

Turnaround Time: 24 Hr

Turnaround Time: 48 Hr

Turnaround Time: Standard

Same Day ☐

48 Hr ☐

Standard ☒

24 Hr ☐

72 Hr ☐

Standard ☒

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

Jeremy Pike
Project Number: 04717043
Project: SRC - Phelps Pad

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 471247 Client: SRC Energy
Client Project ID: Phelps Pad
Checklist Completed by: Dan Lee Shipped Via: HD
Date/time completed: 12-9-17 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: NA
Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____
Cooler Number/Temperature: 10.2 °C ☐ °C ☐ °C (Describe)
Thermometer ID: T603

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"/>		sampled same day
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 12/12/17

Origins Laboratory, Inc.

[Signature]

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

Jeremy Pike
Project Number: 04717043
Project: SRC - Phelps Pad

SB06@2'

12/8/2017 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y712147-01 (Soil)

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7L1403	12/14/2017	12/14/2017	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	95.2 %	70-130			"	"	"
Surrogate: Toluene-d8	97.8 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"

GRO (TVPH)/DRO (TEPH)by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7L1402	12/14/2017	12/15/2017	U
Surrogate: o-Terphenyl	83.8 %	59-131			"	"	"	

Origins Laboratory, Inc.



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

Jeremy Pike
Project Number: 04717043
Project: SRC - Phelps Pad

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 B7L1403 - EPA 5030 (soil)										
Blank (B7L1403-BLK1)					Prepared: 12/14/2017 Analyzed: 12/14/2017					
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	57		ug/kg	62.5		91.1	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



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Jeremy Pike
Project Number: 04717043
Project: SRC - Phelps Pad

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 B7L1403 - EPA 5030 (soil)										
Blank (B7L1403-BLK2)					Prepared: 12/14/2017 Analyzed: 12/14/2017					
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	61		ug/kg	62.5		98.1	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.6	70-130			

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Jeremy Pike
Project Number: 04717043
Project: SRC - Phelps Pad

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 B7L1403 - EPA 5030 (soil)										
LCS (B7L1403-BS1)					Prepared: 12/14/2017 Analyzed: 12/14/2017					
Benzene	0.089	0.002	mg/kg	0.100		88.6	77.1-124			
Toluene	0.082	0.002	"	0.100		82.0	74.5-128			
Ethylbenzene	0.103	0.002	"	0.100		103	66.4-127			
m,p-Xylene	0.206	0.004	"	0.200		103	76.6-124			
o-Xylene	0.092	0.002	"	0.100		91.7	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.4	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.3	70-130			

Origins Laboratory, Inc.



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Arvada CO 80003

Jeremy Pike
Project Number: 04717043
Project: SRC - Phelps Pad

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 B7L1403 - EPA 5030 (soil)										
LCS (B7L1403-BS2)					Prepared: 12/14/2017 Analyzed: 12/14/2017					
Benzene	0.099	0.002	mg/kg	0.100		99.4	77.1-124			
Toluene	0.097	0.002	"	0.100		96.7	74.5-128			
Ethylbenzene	0.102	0.002	"	0.100		102	66.4-127			
m,p-Xylene	0.205	0.004	"	0.200		102	76.6-124			
o-Xylene	0.102	0.002	"	0.100		102	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	57		ug/kg	62.5		90.7	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.4	70-130			

Origins Laboratory, Inc.



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Arvada CO 80003

Jeremy Pike
Project Number: 04717043
Project: SRC - Phelps Pad

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 B7L1403 - EPA 5030 (soil)

Matrix Spike (B7L1403-MS1)		Source: Y712162-01			Prepared: 12/14/2017 Analyzed: 12/14/2017					
Benzene	0.098	0.002	mg/kg	0.100	ND	97.7	71.8-126			
Toluene	0.089	0.002	"	0.100	ND	89.4	65.1-130			
Ethylbenzene	0.099	0.002	"	0.100	ND	99.5	62.2-130			
m,p-Xylene	0.198	0.004	"	0.200	ND	99.0	46.5-137			
o-Xylene	0.100	0.002	"	0.100	ND	99.6	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	57		ug/kg	62.5		91.5	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.8	70-130			

Origins Laboratory, Inc.



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

Jeremy Pike
Project Number: 04717043
Project: SRC - Phelps Pad

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 B7L1403 - EPA 5030 (soil)										
Matrix Spike (B7L1403-MS2)		Source: Y712162-02			Prepared: 12/14/2017 Analyzed: 12/14/2017					
Benzene	0.100	0.002	mg/kg	0.100	ND	100	71.8-126			
Toluene	0.094	0.002	"	0.100	ND	93.8	65.1-130			
Ethylbenzene	0.102	0.002	"	0.100	ND	102	62.2-130			
m,p-Xylene	0.202	0.004	"	0.200	ND	101	46.5-137			
o-Xylene	0.101	0.002	"	0.100	ND	101	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		98.7	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.6	70-130			

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

Jeremy Pike
Project Number: 04717043
Project: SRC - Phelps Pad

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 B7L1403 - EPA 5030 (soil)

Matrix Spike Dup (B7L1403-MSD1)		Source: Y712162-01			Prepared: 12/14/2017 Analyzed: 12/14/2017					
Benzene	0.097	0.002	mg/kg	0.100	ND	96.9	71.8-126	0.781	11.3	
Toluene	0.090	0.002	"	0.100	ND	89.9	65.1-130	0.602	15.4	
Ethylbenzene	0.103	0.002	"	0.100	ND	103	62.2-130	3.42	19.6	
m,p-Xylene	0.208	0.004	"	0.200	ND	104	46.5-137	4.76	19.2	
o-Xylene	0.100	0.002	"	0.100	ND	99.9	54.2-134	0.281	17.9	
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.5	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.9	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7L1403 - EPA 5030 (soil)

Matrix Spike Dup (B7L1403-MSD2)		Source: Y712162-02			Prepared: 12/14/2017 Analyzed: 12/14/2017					
Benzene	0.095	0.002	mg/kg	0.100	ND	95.2	71.8-126	5.35	11.3	
Toluene	0.092	0.002	"	0.100	ND	91.9	65.1-130	2.00	15.4	
Ethylbenzene	0.095	0.002	"	0.100	ND	95.4	62.2-130	6.43	19.6	
m,p-Xylene	0.188	0.004	"	0.200	ND	94.0	46.5-137	7.07	19.2	
o-Xylene	0.095	0.002	"	0.100	ND	95.0	54.2-134	6.16	17.9	
Surrogate: 1,2-Dichloroethane-d4	56		ug/kg	62.5		88.9	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.5	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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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 B7L1402 - EPA 3580

Blank (B7L1402-BLK1)

Prepared: 12/14/2017 Analyzed: 12/14/2017

Gasoline (C6-C10)	ND	50.0	mg/kg							U
Diesel (C10-C28)	ND	50.0	"							U
Surrogate: o-Terphenyl	47		"	50.0		93.6	59-131			

Blank (B7L1402-BLK2)

Prepared: 12/14/2017 Analyzed: 12/15/2017

Gasoline (C6-C10)	ND	50.0	mg/kg							U
Diesel (C10-C28)	ND	50.0	"							U
Surrogate: o-Terphenyl	44		"	50.0		87.4	59-131			

LCS (B7L1402-BS1)

Prepared: 12/14/2017 Analyzed: 12/14/2017

Gasoline (C6-C10)	1090	50.0	mg/kg	1000		109	59-133			
Diesel (C10-C28)	1100	50.0	"	1000		110	64-121			
Surrogate: o-Terphenyl	58		"	50.0		116	59-131			

LCS (B7L1402-BS2)

Prepared: 12/14/2017 Analyzed: 12/15/2017

Gasoline (C6-C10)	1100	50.0	mg/kg	1000		110	59-133			
Diesel (C10-C28)	1090	50.0	"	1000		109	64-121			
Surrogate: o-Terphenyl	56		"	50.0		111	59-131			

Matrix Spike (B7L1402-MS1)

Source: Y712234-01

Prepared: 12/14/2017 Analyzed: 12/14/2017

Gasoline (C6-C10)	1010	50.0	mg/kg	1000	ND	101	57-139			
Diesel (C10-C28)	1030	50.0	"	1000	ND	103	53-125			

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Jeremy Pike
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Project: SRC - Phelps Pad

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 B7L1402 - EPA 3580										
Matrix Spike (B7L1402-MS1)		Source: Y712234-01			Prepared: 12/14/2017 Analyzed: 12/14/2017					
Surrogate: o-Terphenyl	53		mg/kg	50.0		105	59-131			
Matrix Spike (B7L1402-MS2)		Source: Y712147-01			Prepared: 12/14/2017 Analyzed: 12/15/2017					
Gasoline (C6-C10)	1060	50.0	mg/kg	1000	ND	106	57-139			
Diesel (C10-C28)	1060	50.0	"	1000	ND	106	53-125			
Surrogate: o-Terphenyl	52		"	50.0		105	59-131			
Matrix Spike Dup (B7L1402-MSD1)		Source: Y712234-01			Prepared: 12/14/2017 Analyzed: 12/14/2017					
Gasoline (C6-C10)	1080	50.0	mg/kg	1000	ND	108	57-139	6.65	20	
Diesel (C10-C28)	1100	50.0	"	1000	ND	110	53-125	6.22	20	
Surrogate: o-Terphenyl	57		"	50.0		114	59-131			
Matrix Spike Dup (B7L1402-MSD2)		Source: Y712147-01			Prepared: 12/14/2017 Analyzed: 12/15/2017					
Gasoline (C6-C10)	1020	50.0	mg/kg	1000	ND	102	57-139	3.28	20	
Diesel (C10-C28)	1040	50.0	"	1000	ND	104	53-125	1.14	20	
Surrogate: o-Terphenyl	54		"	50.0		108	59-131			

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Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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