



October 25, 2017

CGRS, Inc

Craig Mulica

1301 Academy Court

Fort Collins CO 80524

Project Name - Sloan 3

Project Number - 16920aa

Attached are your analytical results for Sloan 3 received by Origins Laboratory, Inc. October 13, 2017. This project is associated with Origins project number Y710197-01.

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

CGRS, Inc  
1301 Academy Court  
Fort Collins CO 80524

Craig Mulica  
Project Number: 16920aa  
Project: Sloan 3

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-Center@12'	Y710197-01	Soil	October 12, 2017 13:00	10/13/2017 09:07
SS-North@10'	Y710197-02	Soil	October 12, 2017 13:05	10/13/2017 09:07
SS-South@10'	Y710197-03	Soil	October 12, 2017 13:10	10/13/2017 09:07
SS-East@10'	Y710197-04	Soil	October 12, 2017 13:15	10/13/2017 09:07
SS-West@10'	Y710197-05	Soil	October 12, 2017 13:20	10/13/2017 09:07

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Project Number: 16920aa  
Project: Sloan 3

# ORIGINS

LABORATORY, INC

www.originslaboratory.com

page 1 of 1

Fax: 303.265.9645

Client:

CC-RS

Address:

1801 AUBURN CT BOULDER

Telephone Number:

(970) 443-7180

Email Address:

CRABG@CGRS.COM

SKIMMED BY CGRS.COM

Project Manager:

CRABG MALKA

Project Name:

SLDAN 3

Project Number:

1697004

Samples Collected By:

ELIABETH WILSON

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix				Analysis	Sample Instructions
				HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	As Sampled	Other			
SS-CUTTER @ 12'	10/14/17	13:00	2 X						X			VIEW, TUPA, TEPH	1
SS-WORTH @ 10'	10/12/17	13:05	2 X						X				2
SS-SOUTH @ 10'	10/12/17	13:10	2 X						X				3
SS-EAST @ 10'	10/12/17	13:15	2 X						X				4
SS-WEST @ 10'	10/12/17	13:20	2 X						X				5
													6
													7
													8
													9
													10
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:							
DIANE VANDERKAM	10/13/2017	9:01A	[Signature]	10-13-17	9:07	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/>							
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>							

0.41°C Date Results Needed

Origins Laboratory, Inc.

Jeff Pellgrini

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Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 4710197

Client: CGRS, Inc

Client Project ID: Sloan 3

Checklist Completed by: [Signature]

Shipped Via: 160 Pickup

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

Date/time completed: 10.13.12 1400

Airbill #: WA

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

Cooler Number/Temperature: 1 0.4 °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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <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)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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 (Project Manager) [Signature]

Date/Time Reviewed 10/16/12

Origins Laboratory, Inc.

[Signature]

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1301 Academy Court  
Fort Collins CO 80524

Craig Mulica  
Project Number: 16920aa  
Project: Sloan 3

## SS-Center@12'

10/12/2017 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y710197-01 (Soil)

### BTEX by EPA 8260C

Benzene	ND	0.050	mg/kg	25	B7J1901	10/19/2017	10/20/2017	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	
Surrogate: Toluene-d8	106 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	

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

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B7J1902	10/19/2017	10/24/2017	U
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	U

Surrogate: o-Terphenyl	88.2 %	59-131			"	"	"	
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## SS-North@10'

10/12/2017 1:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y710197-02 (Soil)

### BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	B7J1901	10/19/2017	10/20/2017	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	116 %	70-130			"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"	

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

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B7J1902	10/19/2017	10/24/2017	U
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	U

Surrogate: o-Terphenyl	82.4 %	59-131			"	"	"	
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## SS-South@10'

10/12/2017 1:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y710197-03 (Soil)

### BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	B7J1901	10/19/2017	10/20/2017	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	124 %	70-130			"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

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

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B7J1902	10/19/2017	10/24/2017	U
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	U

Surrogate: o-Terphenyl	76.8 %	59-131			"	"	"	
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SS-East@10'

10/12/2017 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y710197-04 (Soil)**

**BTEX by EPA 8260C**

Benzene	ND	0.002	mg/kg	1	B7J1901	10/19/2017	10/20/2017	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4  
Surrogate: Toluene-d8  
Surrogate: 4-Bromofluorobenzene

104 %  
95.2 %  
104 %

70-130  
70-130  
70-130

"  
"  
"

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

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B7J1902	10/19/2017	10/24/2017	U
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	U

Surrogate: o-Terphenyl

71.2 %  
59-131

"  
"

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## SS-West@10'

10/12/2017 1:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y710197-05 (Soil)

### BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	B7J1901	10/19/2017	10/20/2017	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	122 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"	

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

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B7J1902	10/19/2017	10/24/2017	U
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	U

Surrogate: o-Terphenyl	77.4 %	59-131			"	"	"	
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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
<b>Batch B7J1901 - EPA 5030 (soil)</b>										
<b>Blank (B7J1901-BLK1)</b>					Prepared: 10/19/2017 Analyzed: 10/19/2017					
Benzene	ND	0.002	mg/kg							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	71		ug/kg	62.5		113	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	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
<b>Batch B7J1901 - EPA 5030 (soil)</b>										
<b>Blank (B7J1901-BLK2)</b>					Prepared: 10/19/2017 Analyzed: 10/19/2017					
Benzene	ND	0.002	mg/kg							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	69		ug/kg	62.5		111	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		109	70-130			

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**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B7J1901 - EPA 5030 (soil)</b>										
<b>Blank (B7J1901-BLK3)</b>					Prepared: 10/19/2017 Analyzed: 10/20/2017					
Benzene	ND	0.002	mg/kg							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	59		"	62.5		94.6	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	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
<b>Batch B7J1901 - EPA 5030 (soil)</b>										
<b>LCS (B7J1901-BS1)</b>					Prepared: 10/19/2017 Analyzed: 10/19/2017					
Benzene	0.112	0.002	mg/kg	0.100		112	77.1-124			
Toluene	0.098	0.002	"	0.100		98.2	74.5-128			
Ethylbenzene	0.111	0.002	"	0.100		111	66.4-127			
m,p-Xylene	0.216	0.004	"	0.200		108	76.6-124			
o-Xylene	0.109	0.002	"	0.100		109	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.2	70-130			
Surrogate: Toluene-d8	55		"	62.5		87.7	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7J1901 - EPA 5030 (soil)**

**LCS (B7J1901-BS2)**

Prepared: 10/19/2017 Analyzed: 10/19/2017

Benzene	0.122	0.002	mg/kg	0.100		122	77.1-124			
Toluene	0.116	0.002	"	0.100		116	74.5-128			
Ethylbenzene	0.110	0.002	"	0.100		110	66.4-127			
m,p-Xylene	0.216	0.004	"	0.200		108	76.6-124			
o-Xylene	0.107	0.002	"	0.100		107	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	68		ug/kg	62.5		109	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.6	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 B7J1901 - EPA 5030 (soil)**

**LCS (B7J1901-BS3)**

Prepared: 10/19/2017 Analyzed: 10/19/2017

Benzene	0.118	0.002	mg/kg	0.100		118	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	0.195	0.004	"	0.200		97.3	76.6-124			
o-Xylene	0.098	0.002	"	0.100		97.9	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	70		ug/kg	62.5		112	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7J1901 - EPA 5030 (soil)**

Matrix Spike (B7J1901-MS1)		Source: Y710246-01			Prepared: 10/19/2017 Analyzed: 10/19/2017					
Benzene	0.111	0.002	mg/kg	0.100	ND	111	71.8-126			
Toluene	0.120	0.002	"	0.100	0.001	119	65.1-130			
Ethylbenzene	0.110	0.002	"	0.100	ND	110	62.2-130			
m,p-Xylene	0.213	0.004	"	0.200	ND	106	46.5-137			
o-Xylene	0.108	0.002	"	0.100	ND	108	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.6	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7J1901 - EPA 5030 (soil)**

Matrix Spike (B7J1901-MS2)		Source: Y710282-05			Prepared: 10/19/2017 Analyzed: 10/20/2017					
Benzene	0.106	0.002	mg/kg	0.100	ND	106	71.8-126			
Toluene	0.095	0.002	"	0.100	ND	95.3	65.1-130			
Ethylbenzene	0.111	0.002	"	0.100	ND	111	62.2-130			
m,p-Xylene	0.214	0.004	"	0.200	ND	107	46.5-137			
o-Xylene	0.107	0.002	"	0.100	ND	107	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	61		"	62.5		96.8	70-130			
Surrogate: 4-Bromofluorobenzene	71		"	62.5		114	70-130			

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Project: Sloan 3

**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 B7J1901 - EPA 5030 (soil)**

Matrix Spike (B7J1901-MS3)		Source: Y710290-01			Prepared: 10/19/2017 Analyzed: 10/19/2017					
Benzene	0.096	0.002	mg/kg	0.100	ND	95.6	71.8-126			
Toluene	0.077	0.002	"	0.100	ND	77.1	65.1-130			
Ethylbenzene	0.088	0.002	"	0.100	ND	87.6	62.2-130			
m,p-Xylene	0.173	0.004	"	0.200	0.001	86.0	46.5-137			
o-Xylene	0.090	0.002	"	0.100	0.0005	89.3	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	56		"	62.5		90.3	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7J1901 - EPA 5030 (soil)**

Matrix Spike Dup (B7J1901-MSD1)		Source: Y710246-01			Prepared: 10/19/2017 Analyzed: 10/19/2017					
Benzene	0.122	0.002	mg/kg	0.100	ND	122	71.8-126	9.81	11.3	
Toluene	0.118	0.002	"	0.100	0.001	117	65.1-130	1.83	15.4	
Ethylbenzene	0.107	0.002	"	0.100	ND	107	62.2-130	2.55	19.6	
m,p-Xylene	0.209	0.004	"	0.200	ND	104	46.5-137	1.91	19.2	
o-Xylene	0.105	0.002	"	0.100	ND	105	54.2-134	2.14	17.9	
Surrogate: 1,2-Dichloroethane-d4	68		ug/kg	62.5		109	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	53		"	62.5		84.7	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 B7J1901 - EPA 5030 (soil)**

Matrix Spike Dup (B7J1901-MSD2)		Source: Y710282-05			Prepared: 10/19/2017 Analyzed: 10/19/2017					
Benzene	0.098	0.002	mg/kg	0.100	ND	98.0	71.8-126	7.65	11.3	
Toluene	0.101	0.002	"	0.100	ND	101	65.1-130	6.30	15.4	QR-02
Ethylbenzene	0.095	0.002	"	0.100	ND	94.8	62.2-130	15.9	19.6	QR-03
m,p-Xylene	0.185	0.004	"	0.200	ND	92.3	46.5-137	14.9	19.2	QR-02
o-Xylene	0.094	0.002	"	0.100	ND	94.4	54.2-134	12.8	17.9	QR-02
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	66		"	62.5		106	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		109	70-130			

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**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7J1901 - EPA 5030 (soil)**

Matrix Spike Dup (B7J1901-MSD3)		Source: Y710290-01			Prepared: 10/19/2017 Analyzed: 10/19/2017					
Benzene	0.101	0.002	mg/kg	0.100	ND	101	71.8-126	5.67	11.3	
Toluene	0.106	0.002	"	0.100	ND	106	65.1-130	31.8	15.4	QR-02
Ethylbenzene	0.095	0.002	"	0.100	ND	95.3	62.2-130	8.44	19.6	
m,p-Xylene	0.187	0.004	"	0.200	0.001	92.9	46.5-137	7.65	19.2	
o-Xylene	0.096	0.002	"	0.100	0.0005	95.1	54.2-134	6.28	17.9	
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		98.6	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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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 B7J1902 - EPA 3550B**

**Blank (B7J1902-BLK2)**

Prepared: 10/19/2017 Analyzed: 10/19/2017

Gasoline (C6-C10)	ND	50.0	mg/kg							U
Diesel (C10-C28)	ND	50.0	"							U
Surrogate: o-Terphenyl	46		"	50.0		91.2	59-131			

**LCS (B7J1902-BS2)**

Prepared: 10/19/2017 Analyzed: 10/19/2017

Gasoline (C6-C10)	835	50.0	mg/kg	1000		83.5	59-133			
Diesel (C10-C28)	991	50.0	"	1000		99.1	64-121			
Surrogate: o-Terphenyl	45		"	50.0		89.6	59-131			

**Matrix Spike (B7J1902-MS2)**

**Source: Y710284-05**

Prepared: 10/19/2017 Analyzed: 10/19/2017

Gasoline (C6-C10)	833	50.0	mg/kg	1000	30.5	80.2	57-139			
Diesel (C10-C28)	1100	50.0	"	1000	16.4	109	53-125			
Surrogate: o-Terphenyl	40		"	50.0		79.4	59-131			

**Matrix Spike Dup (B7J1902-MSD2)**

**Source: Y710284-05**

Prepared: 10/19/2017 Analyzed: 10/19/2017

Gasoline (C6-C10)	809	50.0	mg/kg	1000	30.5	77.8	57-139	2.90	20	
Diesel (C10-C28)	1130	50.0	"	1000	16.4	111	53-125	2.52	20	
Surrogate: o-Terphenyl	43		"	50.0		85.4	59-131			

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### Notes and Definitions

U Sample is Non-Detect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

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.

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