

**Attachment A**

**Laboratory Analytical Report**

February 07, 2020

Apex Companies, LLC

Maggie Graham

4150 Darley Avenue, Suite 1

Boulder CO 80305

Project Name - KMG - HSR Reder 5-13

Project Number - 2149114

Attached are your analytical results for KMG - HSR Reder 5-13 received by Origins Laboratory, Inc. January 31, 2020. This project is associated with Origins project number Y001495-01.

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



Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 2149114  
Project: KMG - HSR Reder 5-13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N01@3'	Y001495-01	Soil	January 31, 2020 12:50	01/31/2020 15:45
E01@3'	Y001495-02	Soil	January 31, 2020 12:52	01/31/2020 15:45
S01@3'	Y001495-03	Soil	January 31, 2020 12:54	01/31/2020 15:45
W01@3'	Y001495-04	Soil	January 31, 2020 12:56	01/31/2020 15:45
B01@6.5'	Y001495-05	Soil	January 31, 2020 12:58	01/31/2020 15:45

Origins Laboratory, Inc.



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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: 2149114  
 Project: KMG - HSR Reder 5-13

www.originslaboratory.com

Y001495

page 1 of 1



Client: Apex Companies  
 Address: 1746 Cole Blvd, Lakewood, CO 80401  
 Telephone Number: 720-501-5065  
 Email Address: Maggie.Graham@apexcos.com

Project Manager: Maggie Graham  
 Project Name: HSR- Reder 5-13  
 Project Number: WO# 2149114 Greg Hamilton  
 Samples Collected By: Kevin Ambrose  
 Bill to Anadarko

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 <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other	GBTEX	DRO/RRO	Naphthalene	EC, pH, SAR		
N01E3	1/31/20	1250	1	X					X				X	X	X		1
E01E3		1252	1														2
S01E3		1254	1														3
W01E3		1256	1														4
B01C6.5		1258	2										X				5
Background		1300	1													HOLD	6
																Reading base organics (B01C6.5) results	7
																	8
																	9
																	10
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:											
<i>JC Ch</i>	1/31/20	1545	<i>JG</i>	1/31/20	1545	Same Day <input checked="" type="radio"/>	24 Hr <input type="radio"/>										
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	48 Hr <input type="radio"/>	72 Hr <input type="radio"/>										
						Standard <input type="radio"/>											

4.7

Date Results Needed Monday Next day, 7am



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Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: 2149114  
 Project: KMG - HSR Reder 5-13

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: Y001495

Client: Apex

Client Project ID: HSR Reder 5-13

Checklist Completed by: JG

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

Date/time completed: 1/31/2020

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 4.7°c / \_\_\_\_\_ °c / \_\_\_\_\_ °c (Describe) \_\_\_\_\_ °c

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <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)			<input checked="" 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 be taken in the additional comments (above) and the case narrative.

Reviewed by (Project Manager)

1/31/20  
 Date/Time Reviewed

Origins Laboratory, Inc.



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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: 2149114  
 Project: KMG - HSR Reder 5-13

N01@3'

1/31/2020 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y001495-01 (Soil)

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0A3102	TEM	01/31/2020	01/31/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 73.3 % 50-150 " " "

**GBTEX + Naphthalene by EPA 8260D**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0A3110	KDK	01/31/2020	01/31/2020	U
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "  
 Surrogate: Toluene-d8 97.4 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 96.1 % 70-130 " " "

Origins Laboratory, Inc.



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Apex Companies, LLC  
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 Boulder CO 80305

Maggie Graham  
 Project Number: 2149114  
 Project: KMG - HSR Reder 5-13

E01@3'

1/31/2020 12:52:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y001495-02 (Soil)

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0A3102	TEM	01/31/2020	01/31/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 74.1 % 50-150 " " "

**GBTEX + Naphthalene by EPA 8260D**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0A3110	KDK	01/31/2020	01/31/2020	U
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "  
 Surrogate: Toluene-d8 97.1 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 96.5 % 70-130 " " "

Origins Laboratory, Inc.



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Apex Companies, LLC  
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 Boulder CO 80305

Maggie Graham  
 Project Number: 2149114  
 Project: KMG - HSR Reder 5-13

S01@3'

1/31/2020 12:54:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y001495-03 (Soil)

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0A3102	TEM	01/31/2020	01/31/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl 73.3 % 50-150 " " "

**GBTEX + Naphthalene by EPA 8260D**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0A3110	KDK	01/31/2020	01/31/2020	U
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "  
 Surrogate: Toluene-d8 96.4 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 97.1 % 70-130 " " "

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Maggie Graham  
 Project Number: 2149114  
 Project: KMG - HSR Reder 5-13

W01@3'

1/31/2020 12:56:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y001495-04 (Soil)

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0A3102	TEM	01/31/2020	01/31/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 64.2 % 50-150 " " "

**GBTEX + Naphthalene by EPA 8260D**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0A3110	KDK	01/31/2020	01/31/2020	U
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "  
 Surrogate: Toluene-d8 97.1 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 95.6 % 70-130 " " "

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 Boulder CO 80305

Maggie Graham  
 Project Number: 2149114  
 Project: KMG - HSR Reder 5-13

**B01@6.5'**

**1/31/2020 12:58:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y001495-05 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0A3102	TEM	01/31/2020	01/31/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 72.5 % 50-150 " " "

**GBTEX + Naphthalene by EPA 8260D**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0A3110	KDK	01/31/2020	01/31/2020	U
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "  
 Surrogate: Toluene-d8 96.2 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 95.8 % 70-130 " " "

**Metals (Saturated Paste Prep)**

Calcium	2.12		me/L	1	[none]		02/03/2020	02/05/2020	
Magnesium	0.83		"	"	"		"	"	
Sodium	2.07		"	"	"		"	"	

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Maggie Graham  
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 Project: KMG - HSR Reder 5-13

**B01@6.5'**

**1/31/2020 12:58:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y001495-05 (Soil)**

**pH in Soil by EPA 9045D**

pH	7.80		pH Units	1	B0A3107	KDK	01/31/2020	01/31/2020	
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**SAR by 20B Saturated Paste**

SAR	1.70			1	[none]		02/03/2020	02/05/2020	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.172	0.00503	mmhos/cm	1	B0A3108	KDK	01/31/2020	02/03/2020	
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 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: 2149114  
 Project: KMG - HSR Reder 5-13

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B0A3102 - EPA 3580</b>										
<b>Blank (B0A3102-BLK1)</b>										
					Prepared: 01/31/2020 Analyzed: 01/31/2020					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	16		"	25.0		63.5	50-150			

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Maggie Graham  
 Project Number: 2149114  
 Project: KMG - HSR Reder 5-13

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B0A3102 - EPA 3580</b>										
<b>LCS (B0A3102-BS1)</b>										
					Prepared: 01/31/2020 Analyzed: 01/31/2020					
Diesel (C10-C28)	863	50.0	mg/kg	1000		86.3	70-130			
Residual Range Organics (C28-C40)	922	200	"	1000		92.2	70-130			
Surrogate: o-Terphenyl	44		"	50.0		89.0	50-150			

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Maggie Graham  
 Project Number: 2149114  
 Project: KMG - HSR Reder 5-13

**Extractable Petroleum Hydrocarbons by 8015D - 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 B0A3102 - EPA 3580

Matrix Spike (B0A3102-MS1)	Source: Y001480-01			Prepared: 01/31/2020 Analyzed: 01/31/2020						
Diesel (C10-C28)	860	50.0	mg/kg	1000	ND	86.0	70-130			
Residual Range Organics (C28-C40)	907	200	"	1000	ND	90.7	70-130			
Surrogate: o-Terphenyl	44		"	50.0		87.6	50-150			

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 Project: KMG - HSR Reder 5-13

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B0A3102 - EPA 3580</b>										
<b>Matrix Spike Dup (B0A3102-MSD1)</b>		<b>Source: Y001480-01</b>			Prepared: 01/31/2020 Analyzed: 01/31/2020					
Diesel (C10-C28)	872	50.0	mg/kg	1000	ND	87.2	70-130	1.32	35	
Residual Range Organics (C28-C40)	919	200	"	1000	ND	91.9	70-130	1.27	35	
Surrogate: o-Terphenyl	43		"	50.0		86.7	50-150			

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Maggie Graham  
 Project Number: 2149114  
 Project: KMG - HSR Reder 5-13

**Extractable Petroleum Hydrocarbons by 8015D - 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 B0A3110 - EPA 5030 (soil)**

**Blank (B0A3110-BLK1)**

Prepared: 01/31/2020 Analyzed: 01/31/2020

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
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.6	70-130			

Origins Laboratory, Inc.



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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: 2149114  
 Project: KMG - HSR Reder 5-13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B0A3110 - EPA 5030 (soil)

**LCS (B0A3110-BS1)**

Prepared: 01/31/2020 Analyzed: 01/31/2020

Benzene	0.101	0.002	mg/kg	0.100		101	70-130			
Toluene	0.100	0.002	"	0.100		100	70-130			
Ethylbenzene	0.101	0.002	"	0.100		101	70-130			
m,p-Xylene	0.206	0.004	"	0.200		103	70-130			
o-Xylene	0.103	0.002	"	0.100		103	70-130			
Naphthalene	0.106	0.008	"	0.100		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.3	70-130			

Origins Laboratory, Inc.



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Maggie Graham  
 Project Number: 2149114  
 Project: KMG - HSR Reder 5-13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B0A3110 - EPA 5030 (soil)

Matrix Spike (B0A3110-MS1)	Source: Y001493-01			Prepared: 01/31/2020 Analyzed: 01/31/2020						
Benzene	0.101	0.002	mg/kg	0.100	ND	101	70-130			
Toluene	0.100	0.002	"	0.100	ND	100	70-130			
Ethylbenzene	0.100	0.002	"	0.100	ND	100	70-130			
m,p-Xylene	0.205	0.004	"	0.200	ND	103	70-130			
o-Xylene	0.102	0.002	"	0.100	ND	102	70-130			
Naphthalene	0.107	0.008	"	0.100	ND	107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.8	70-130			

Origins Laboratory, Inc.



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

Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: 2149114  
 Project: KMG - HSR Reder 5-13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B0A3110 - EPA 5030 (soil)

Matrix Spike Dup (B0A3110-MSD1)	Source: Y001493-01			Prepared: 01/31/2020 Analyzed: 01/31/2020						
Benzene	0.099	0.002	mg/kg	0.100	ND	99.3	70-130	1.82	20	
Toluene	0.099	0.002	"	0.100	ND	98.7	70-130	1.77	20	
Ethylbenzene	0.098	0.002	"	0.100	ND	98.1	70-130	2.36	20	
m,p-Xylene	0.200	0.004	"	0.200	ND	100	70-130	2.50	20	
o-Xylene	0.102	0.002	"	0.100	ND	102	70-130	0.470	20	
Naphthalene	0.107	0.008	"	0.100	ND	107	70-130	0.112	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.9	70-130			

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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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Jen Pellegrini For Noelle Doyle Mathis, President