

Attachment A

Laboratory Analytical Report



February 10, 2020

Apex Companies, LLC

Maggie Graham

4150 Darley Avenue, Suite 1

Boulder CO 80305

Project Name - KMG - WCR Spaur

Project Number - 89633985

Attached are your analytical results for KMG - WCR Spaur received by Origins Laboratory, Inc. February 06, 2020. This project is associated with Origins project number Y002079-01.

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

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

Maggie Graham
Project Number: 89633985
Project: KMG - WCR Spaur

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW1	Y002079-01	Water	February 6, 2020 12:40	02/06/2020 17:23
MW2	Y002079-02	Water	February 6, 2020 13:02	02/06/2020 17:23
MW3	Y002079-03	Water	February 6, 2020 13:35	02/06/2020 17:23
MW4	Y002079-04	Water	February 6, 2020 14:30	02/06/2020 17:23
MW5	Y002079-05	Water	February 6, 2020 14:12	02/06/2020 17:23
MW6	Y002079-06	Water	February 6, 2020 12:50	02/06/2020 17:23
MW8	Y002079-07	Water	February 6, 2020 13:10	02/06/2020 17:23
MW9	Y002079-08	Water	February 6, 2020 15:15	02/06/2020 17:23
MW10	Y002079-09	Water	February 6, 2020 15:15	02/06/2020 17:23
MW11	Y002079-10	Water	February 6, 2020 14:45	02/06/2020 17:23

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Project: KMG - WCR Spaur

ORION

LABORATORY, INC

1725 Elk Place
Denver, CO 80211
Phone: 303.433.1322
Fax: 303.265.9445

1002079

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: WCR SPAUR
Project Number: WO#8463385 Greg Hamilton
Samples Collected By: K. MONTAGNA & A. BOWEN
Bill to Anadarko

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix				Analysis				Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	GBTEX	DRO/RRO	EC, PH, SAR	Naphthalene		
MW1	2-6-20	1240	3		X			X							X	1	
MW2		1302	3												X	2	
MW3		1335	3												X	3	
MW4		1430	3												X	4	
MW5		1412	3												X	5	
MW6		1250	3												X	6	
MW8		1310	3												X	7	
MW9		1515	3												X	8	
MW10		1515	3												X	9	
MW11		1445	3												X	10	
Relinquished By: <i>John Doe</i>	Date: 2/6/20	Time: 1723		Received By: <i>[Signature]</i>	Date: 2/6/20	Time: 1723										Turnaround Time: 24 Hr <input checked="" type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/>	
Relinquished By:	Date:	Time:		Received By:	Date:	Time:										Standard <input checked="" type="checkbox"/>	

4.9 Date Results Needed Next day, 7am

Origins Laboratory, Inc.

Jeff Pellgrini

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

Maggie Graham
Project Number: 89633985
Project: KMG - WCR Spaur

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4002079

Client: Apex
Client Project ID: KMG-WCR Spaur

Checklist Completed by: JB

Shipped Via: 410
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2/7/20

Airbill #: NA

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

Cooler Number/Temperature: 1 / 4.9 °C / °C / °C (Describe) °C

Thermometer ID: TOCB

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"/>	<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input type="checkbox"/>	HCl
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]

2/10/20
Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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

Maggie Graham
Project Number: 89633985
Project: KMG - WCR Spaur

MW1

2/6/2020 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002079-01 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B0701	KDK	02/07/2020	02/07/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130	"	"	"
Surrogate: Toluene-d8	97.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Maggie Graham
Project Number: 89633985
Project: KMG - WCR Spaur

MW2

2/6/2020 1:02:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002079-02 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B0701	KDK	02/07/2020	02/07/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130	"	"	"
Surrogate: Toluene-d8	97.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Apex Companies, LLC
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Maggie Graham
Project Number: 89633985
Project: KMG - WCR Spaur

MW3

2/6/2020 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002079-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B0701	KDK	02/07/2020	02/07/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130	"	"	"
Surrogate: Toluene-d8	97.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

Origins Laboratory, Inc.



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Maggie Graham
Project Number: 89633985
Project: KMG - WCR Spaur

MW4

2/6/2020 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002079-04 (Water)

BTEX by EPA 8260D

Benzene	38.2	1.00	ug/L	1	B0B0701	KDK	02/07/2020	02/07/2020	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	11.7	1.00	"	"	"	KDK	"	"	
Xylenes, total	31.1	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"	"
Surrogate: Toluene-d8	96.4 %	70-130			"	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	"

Origins Laboratory, Inc.



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Apex Companies, LLC
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Maggie Graham
Project Number: 89633985
Project: KMG - WCR Spaur

MW5

2/6/2020 2:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002079-05 (Water)

BTEX by EPA 8260D

Benzene	1090	10.0	ug/L	10	B0B0701	ZZZ	02/07/2020	02/10/2020	
Toluene	ND	10.0	"	"	"	ZZZ	"	"	U
Ethylbenzene	125	10.0	"	"	"	ZZZ	"	"	
Xylenes, total	709	10.0	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130	"	"	"
Surrogate: Toluene-d8	98.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.9 %	70-130	"	"	"

Origins Laboratory, Inc.



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Maggie Graham
Project Number: 89633985
Project: KMG - WCR Spaur

MW6

2/6/2020 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002079-06 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B0702	ZZZ	02/07/2020	02/07/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130	"	"	"
Surrogate: Toluene-d8	99.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.3 %	70-130	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Maggie Graham
Project Number: 89633985
Project: KMG - WCR Spaur

MW8

2/6/2020 1:10:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002079-07 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B0702	ZZZ	02/07/2020	02/07/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"
Surrogate: Toluene-d8	93.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Maggie Graham
Project Number: 89633985
Project: KMG - WCR Spaur

MW9

2/6/2020 3:15:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002079-08 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B0702	ZZZ	02/07/2020	02/07/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"
Surrogate: Toluene-d8	98.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.0 %	70-130	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Maggie Graham
Project Number: 89633985
Project: KMG - WCR Spaur

MW10

2/6/2020 3:15:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002079-09 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B0702	ZZZ	02/07/2020	02/07/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130	"	"	"
Surrogate: Toluene-d8	97.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Maggie Graham
Project Number: 89633985
Project: KMG - WCR Spaur

MW11

2/6/2020 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002079-10 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B0702	ZZZ	02/07/2020	02/07/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130	"	"	"
Surrogate: Toluene-d8	98.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.2 %	70-130	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Maggie Graham
Project Number: 89633985
Project: KMG - WCR Spaur

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
Batch B0B0701 - EPA 5030B (Water)										
Blank (B0B0701-BLK1)					Prepared: 02/07/2020 Analyzed: 02/07/2020					
Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	69		"	62.5	110	70-130				
Surrogate: Toluene-d8	60		"	62.5	96.7	70-130				
Surrogate: 4-Bromofluorobenzene	62		"	62.5	100	70-130				

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Jen Pellegrini, Project Manager

Apex Companies, LLC
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Maggie Graham
Project Number: 89633985
Project: KMG - WCR Spaur

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
Batch B0B0701 - EPA 5030B (Water)										
LCS (B0B0701-BS1)					Prepared: 02/07/2020 Analyzed: 02/07/2020					
Benzene	51.4	1.00	ug/L	50.0		103	70-130			
Toluene	53.1	1.00	"	50.0		106	70-130			
Ethylbenzene	53.2	1.00	"	50.0		106	70-130			
m,p-Xylene	109	2.00	"	100		109	70-130			
o-Xylene	52.8	1.00	"	50.0		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		103	70-130			
Surrogate: Toluene-d8	61		"	62.5		96.8	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.1	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Maggie Graham
Project Number: 89633985
Project: KMG - WCR Spaur

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 B0B0701 - EPA 5030B (Water)

Matrix Spike (B0B0701-MS1)		Source: Y002078-01			Prepared: 02/07/2020 Analyzed: 02/07/2020					
Benzene	67.4	1.00	ug/L	50.0	ND	135	70-130			QM-07
Toluene	70.2	1.00	"	50.0	ND	140	70-130			QM-07
Ethylbenzene	71.1	1.00	"	50.0	ND	142	70-130			QM-07
m,p-Xylene	145	2.00	"	100	0.170	144	70-130			QM-07
o-Xylene	69.1	1.00	"	50.0	ND	138	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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

Maggie Graham
Project Number: 89633985
Project: KMG - WCR Spaur

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
Batch B0B0701 - EPA 5030B (Water)										
Matrix Spike Dup (B0B0701-MSD1)					Source: Y002078-01					
										Prepared: 02/07/2020 Analyzed: 02/07/2020
Benzene	52.7	1.00	ug/L	50.0	ND	105	70-130	24.5	20	QR-03
Toluene	54.7	1.00	"	50.0	ND	109	70-130	24.9	20	QR-03
Ethylbenzene	55.3	1.00	"	50.0	ND	111	70-130	24.9	20	QR-03
m,p-Xylene	112	2.00	"	100	0.170	112	70-130	25.3	20	QR-03
o-Xylene	53.8	1.00	"	50.0	ND	108	70-130	24.9	20	QR-03
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	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.

Jen Pellegrini, Project Manager

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

Maggie Graham
Project Number: 89633985
Project: KMG - WCR Spaur

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
Batch B0B0702 - EPA 5030B (Water)										
Blank (B0B0702-BLK1)					Prepared: 02/07/2020 Analyzed: 02/07/2020					
Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Maggie Graham
Project Number: 89633985
Project: KMG - WCR Spaur

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 B0B0702 - EPA 5030B (Water)

LCS (B0B0702-BS1)

Prepared: 02/07/2020 Analyzed: 02/10/2020

Benzene	42.6	1.00	ug/L	50.0		85.2	70-130			
Toluene	44.6	1.00	"	50.0		89.3	70-130			
Ethylbenzene	45.5	1.00	"	50.0		91.0	70-130			
m,p-Xylene	89.8	2.00	"	100		89.8	70-130			
o-Xylene	46.6	1.00	"	50.0		93.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Maggie Graham
Project Number: 89633985
Project: KMG - WCR Spaur

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B0B0702 - EPA 5030B (Water)

Matrix Spike (B0B0702-MS1)		Source: Y002081-01			Prepared: 02/07/2020 Analyzed: 02/07/2020					
Benzene	52.2	1.00	ug/L	50.0	ND	104	70-130			
Toluene	53.0	1.00	"	50.0	ND	106	70-130			
Ethylbenzene	54.3	1.00	"	50.0	ND	109	70-130			
m,p-Xylene	107	2.00	"	100	ND	107	70-130			
o-Xylene	55.2	1.00	"	50.0	ND	110	70-130			
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		105	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Maggie Graham
Project Number: 89633985
Project: KMG - WCR Spaur

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
Batch B0B0702 - EPA 5030B (Water)										
Matrix Spike Dup (B0B0702-MSD1)		Source: Y002081-01			Prepared: 02/07/2020 Analyzed: 02/07/2020					
Benzene	43.1	1.00	ug/L	50.0	ND	86.2	70-130	19.0	20	
Toluene	44.8	1.00	"	50.0	ND	89.7	70-130	16.6	20	
Ethylbenzene	45.3	1.00	"	50.0	ND	90.5	70-130	18.2	20	
m,p-Xylene	90.3	2.00	"	100	ND	90.3	70-130	16.6	20	
o-Xylene	48.0	1.00	"	50.0	ND	96.1	70-130	13.9	20	
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.9	70-130			
Surrogate: Toluene-d8	65		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.6	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.

Jen Pellegrini, Project Manager

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

Maggie Graham
Project Number: 89633985
Project: KMG - WCR Spaur

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.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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, Project Manager



February 28, 2020

Apex Companies, LLC

Maggie Graham

4150 Darley Avenue, Suite 1

Boulder

CO 80305

Project Name - KMG - WCR Properties 41-5/Spaur 1-5 Tank Battery **Project Number - 89633985**

Attached are your analytical results for KMG - WCR Properties 41-5/Spaur 1-5 Tank Battery received by Origins Laboratory, Inc. February 21, 2020. This project is associated with Origins project number Y002322-01.

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

Apex Companies, LLC

4150 Darley Avenue, Suite 1

Boulder CO 80305

Maggie Graham

Project Number: 89633985

Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW07	Y002322-01	Water	February 21, 2020 13:10	02/21/2020 17:25

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

Page 3 of 10

Apex Companies, LLC

4150 Darley Avenue, Suite 1

Boulder CO 80305

Maggie Graham

Project Number: 89633985

Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1002322

Client: Apex

Client Project ID: WCR Properties 41-5 / Spaur 1

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 2/24/2020

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 53 °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 ⁽¹⁾ ?	<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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input 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) JG

Date/Time Reviewed 2/25/20

Origins Laboratory, Inc.

Jefe Pellegrini

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: 89633985
Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

MW07

2/21/2020 1:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002322-01 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B2501	ZZZ	02/25/2020	02/27/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130	"	"	"
Surrogate: Toluene-d8	96.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Maggie Graham
Project Number: 89633985
Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

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
Batch B0B2501 - EPA 5030B (Water)										
Blank (B0B2501-BLK1)					Prepared: 02/25/2020 Analyzed: 02/27/2020					
Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5	103		70-130			
Surrogate: Toluene-d8	61		"	62.5	97.6		70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5	104		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: 89633985
Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

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
Batch B0B2501 - EPA 5030B (Water)										
LCS (B0B2501-BS1)					Prepared: 02/25/2020 Analyzed: 02/27/2020					
Benzene	49.2	1.00	ug/L	50.0		98.5	70-130			
Toluene	48.1	1.00	"	50.0		96.2	70-130			
Ethylbenzene	49.1	1.00	"	50.0		98.2	70-130			
m,p-Xylene	97.2	2.00	"	100		97.2	70-130			
o-Xylene	47.2	1.00	"	50.0		94.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	68		"	62.5		108	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

Origins Laboratory, Inc.



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

Maggie Graham
Project Number: 89633985
Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

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 B0B2501 - EPA 5030B (Water)

Matrix Spike (B0B2501-MS1)		Source: Y002328-01			Prepared: 02/25/2020 Analyzed: 02/27/2020					
Benzene	47.8	1.00	ug/L	50.0	ND	95.5	70-130			
Toluene	51.6	1.00	"	50.0	ND	103	70-130			
Ethylbenzene	50.6	1.00	"	50.0	ND	101	70-130			
m,p-Xylene	101	2.00	"	100	0.200	101	70-130			
o-Xylene	50.0	1.00	"	50.0	ND	99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		105	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.6	70-130			

Origins Laboratory, Inc.



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

Maggie Graham
Project Number: 89633985
Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B0B2501 - EPA 5030B (Water)

Matrix Spike Dup (B0B2501-MSD1)		Source: Y002328-01			Prepared: 02/25/2020 Analyzed: 02/27/2020					
Benzene	56.0	1.00	ug/L	50.0	ND	112	70-130	15.9	20	
Toluene	56.6	1.00	"	50.0	ND	113	70-130	9.33	20	
Ethylbenzene	58.2	1.00	"	50.0	ND	116	70-130	13.9	20	
m,p-Xylene	117	2.00	"	100	0.200	116	70-130	14.0	20	
o-Xylene	57.2	1.00	"	50.0	ND	114	70-130	13.6	20	
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.1	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.0	70-130			

Origins Laboratory, Inc.



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

Maggie Graham
Project Number: 89633985
Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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.



May 18, 2020

Apex Companies, LLC

Maggie Graham

4150 Darley Avenue, Suite 1

Boulder

CO 80305

Project Name - WCR Properties 41-5/Spaur 1-5

Project Number - 275774

Attached are your analytical results for WCR Properties 41-5/Spaur 1-5 received by Origins Laboratory, Inc. May 11, 2020. This project is associated with Origins project number Y005140-01.

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.

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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

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

Maggie Graham
Project Number: 275774
Project: WCR Properties 41-5/Spaur 1-5

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y005140-01	Water	May 11, 2020 11:40	05/11/2020 16:32
MW02	Y005140-02	Water	May 11, 2020 12:20	05/11/2020 16:32
MW03	Y005140-03	Water	May 11, 2020 12:53	05/11/2020 16:32
MW04	Y005140-04	Water	May 11, 2020 14:09	05/11/2020 16:32
MW05	Y005140-05	Water	May 11, 2020 14:40	05/11/2020 16:32
MW06	Y005140-06	Water	May 11, 2020 13:26	05/11/2020 16:32
MW07	Y005140-07	Water	May 11, 2020 15:30	05/11/2020 16:32
MW08	Y005140-08	Water	May 11, 2020 13:40	05/11/2020 16:32
MW09	Y005140-09	Water	May 11, 2020 12:50	05/11/2020 16:32
MW10	Y005140-10	Water	May 11, 2020 12:25	05/11/2020 16:32
MW11	Y005140-11	Water	May 11, 2020 12:00	05/11/2020 16:32

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: 275774
Project: WCR Properties 41-5/Spaur 1-5

www.originslaboratory.com

page 1 of 2

ORIGINS
LABORATORY, INC

1005140 1/2

Client: Apex Companies, LLC
Address: 1746 Cole Blvd, Ste 250
Lakewood, CO 80101
Telephone Number: 720-501-5065
Email Address: Denver Remediation @ Apex.com
Project Manager: Maggie Graham
Project Name: WCR Properties 41-5/Spaur 1-5
Project Number: WO#: 275774
Samples Collected By: Kenn Ambrose, Sage Mathis
Bill To: Glenn Springs Holdings

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 Canister #	Other		
MW01	5/11/20	1140	3					X					1
MW02		1220											2
MW03		1253											3
MW04		1409											4
MW05		1440											5
MW06		1326											6
MW07		1530											7
MW08		1540											8
MW09		1250											9
MW10		1225											10
Relinquished By: <u>[Signature]</u>	Date: <u>5/11/20</u>	Time: <u>1637</u>		Received By: <u>[Signature]</u>	Date: <u>5/16/20</u>	Time: <u>1637</u>		Turnaround Time: <input type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> Standard					

Date Results Needed

6.7

Temp Received-

Origins Laboratory, Inc.

[Signature]

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.

Maggie Graham
Project Number: 275774
Project: WCR Properties 41-5/Spaur 1-5

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page 2 of 2

ORIGINS




Client: Alex Company LLC

Project Manager: _____
Project Name: Wk Reports 11-15 / Spaw 1-5
Project Number: W# 275774
Cables Collected By: _____

Samples Collected By: _____

Telephone Number: _____

Email Address: _____

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix				Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other				
MW11	5/11/20	1200	3	X				X						1	
														2	
														3	
														4	
														5	
														6	
														7	
														8	
														9	
														10	
Relinquished By: 	Date: 5/11/20		Time: 1637	Received By: 					Date: 5-11-20				Time: 1637	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input checked="" type="checkbox"/>	
Relinquished By: 	Date:		Time:	Received By:					Date:				Time:	Standard <input checked="" type="checkbox"/>	

Date Results Needed

Temp Received-

67

Intent

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: 275774

Project: WCR Properties 41-5/Spaur 1-5

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y005140

Client: Apex

Client Project ID: KMG-WCR Properties Spur

Checklist Completed by: JE KDK

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

Date/time completed: 05/12/2020

Airbill #: N/A

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

Cooler Number/Temperature: 1, 6.7 °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 ⁽¹⁾ ?		<input checked="" type="checkbox"/>		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) Jm

5-13-20
Date/Time Reviewed

Origins Laboratory, Inc.

Jm

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

Maggie Graham
Project Number: 275774
Project: WCR Properties 41-5/Spaur 1-5

MW01

5/11/2020 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y005140-01 (Water)

BTEX by EPA 8260D

Benzene	ND	4.00	ug/L	4	B0E1203	KDK	05/12/2020	05/14/2020	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.0 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	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: 275774
Project: WCR Properties 41-5/Spaur 1-5

MW02

5/11/2020 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y005140-02 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0E1203	KDK	05/12/2020	05/14/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130	"	"	"
Surrogate: Toluene-d8	99.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Origins Laboratory, Inc.

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

Maggie Graham
Project Number: 275774
Project: WCR Properties 41-5/Spaur 1-5

MW03

5/11/2020 12:53:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y005140-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0E1203	KDK	05/12/2020	05/14/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130	"	"	"
Surrogate: Toluene-d8	99.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Origins Laboratory, Inc.

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

Maggie Graham
Project Number: 275774
Project: WCR Properties 41-5/Spaur 1-5

MW04

5/11/2020 2:09:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y005140-04 (Water)

BTEX by EPA 8260D

Benzene	240	10.0	ug/L	10	B0E1203	KDK	05/12/2020	05/14/2020	
Toluene	ND	1.00	"	1	"	KDK	"	05/14/2020	U
Ethylbenzene	73.8	1.00	"	"	"	KDK	"	"	
Xylenes, total	276	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.4 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Maggie Graham
Project Number: 275774
Project: WCR Properties 41-5/Spaur 1-5

MW05

5/11/2020 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y005140-05 (Water)

BTEX by EPA 8260D

Benzene	819	20.0	ug/L	20	B0E1203	KDK	05/12/2020	05/14/2020	
Toluene	ND	1.00	"	1	"	KDK	"	05/14/2020	U
Ethylbenzene	127	1.00	"	"	"	KDK	"	"	
Xylenes, total	534	20.0	"	20	"	KDK	"	05/14/2020	

Surrogate: 1,2-Dichloroethane-d4	93.2 %	70-130			"	"	05/14/2020
Surrogate: Toluene-d8	101 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	97.4 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Maggie Graham
Project Number: 275774
Project: WCR Properties 41-5/Spaur 1-5

MW06

5/11/2020 1:26:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y005140-06 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0E1203	KDK	05/12/2020	05/14/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130	"	"	"
Surrogate: Toluene-d8	99.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

Origins Laboratory, Inc.

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

Maggie Graham
Project Number: 275774
Project: WCR Properties 41-5/Spaur 1-5

MW07

5/11/2020 3:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y005140-07 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0E1203	KDK	05/12/2020	05/14/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130	"	"	"
Surrogate: Toluene-d8	99.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

Origins Laboratory, Inc.

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

Maggie Graham
Project Number: 275774
Project: WCR Properties 41-5/Spaur 1-5

MW08

5/11/2020 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y005140-08 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0E1203	KDK	05/12/2020	05/14/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.9 %	70-130	"	"	"
Surrogate: Toluene-d8	99.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

Origins Laboratory, Inc.

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

Maggie Graham
Project Number: 275774
Project: WCR Properties 41-5/Spaur 1-5

MW09

5/11/2020 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y005140-09 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0E1203	KDK	05/12/2020	05/14/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.6 %	70-130	"	"	"
Surrogate: Toluene-d8	99.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	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: 275774
Project: WCR Properties 41-5/Spaur 1-5

MW10

5/11/2020 12:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y005140-10 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0E1203	KDK	05/12/2020	05/14/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130	"	"	"
Surrogate: Toluene-d8	99.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Maggie Graham
Project Number: 275774
Project: WCR Properties 41-5/Spaur 1-5

MW11

5/11/2020 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y005140-11 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0E1203	KDK	05/12/2020	05/14/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130	"	"	"
Surrogate: Toluene-d8	99.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Maggie Graham
Project Number: 275774
Project: WCR Properties 41-5/Spaur 1-5

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
Batch B0E1203 - EPA 5030B (Water)										
Blank (B0E1203-BLK1)					Prepared: 05/12/2020 Analyzed: 05/14/2020					
Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.4	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



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

Maggie Graham
Project Number: 275774
Project: WCR Properties 41-5/Spaur 1-5

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
Batch B0E1203 - EPA 5030B (Water)										
LCS (B0E1203-BS1)					Prepared: 05/12/2020 Analyzed: 05/14/2020					
Benzene	55.3	1.00	ug/L	50.0		111	70-130			
Toluene	53.3	1.00	"	50.0		107	70-130			
Ethylbenzene	56.3	1.00	"	50.0		113	70-130			
m,p-Xylene	104	2.00	"	100		104	70-130			
o-Xylene	48.5	1.00	"	50.0		97.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.6	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

Origins Laboratory, Inc.



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

Maggie Graham
Project Number: 275774
Project: WCR Properties 41-5/Spaur 1-5

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 B0E1203 - EPA 5030B (Water)

Matrix Spike (B0E1203-MS1)		Source: Y005140-01			Prepared: 05/12/2020 Analyzed: 05/14/2020					
Benzene	54.4	1.00	ug/L	50.0	ND	109	70-130			
Toluene	53.4	1.00	"	50.0	ND	107	70-130			
Ethylbenzene	55.0	1.00	"	50.0	ND	110	70-130			
m,p-Xylene	103	2.00	"	100	0.880	102	70-130			
o-Xylene	48.3	1.00	"	50.0	ND	96.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		95.2	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

Origins Laboratory, Inc.



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

Maggie Graham
Project Number: 275774
Project: WCR Properties 41-5/Spaur 1-5

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 B0E1203 - EPA 5030B (Water)

Matrix Spike Dup (B0E1203-MSD1)		Source: Y005140-01			Prepared: 05/12/2020 Analyzed: 05/14/2020					
Benzene	54.9	1.00	ug/L	50.0	ND	110	70-130	0.933	20	
Toluene	53.8	1.00	"	50.0	ND	108	70-130	0.766	20	
Ethylbenzene	56.3	1.00	"	50.0	ND	113	70-130	2.36	20	
m,p-Xylene	104	2.00	"	100	0.880	103	70-130	1.02	20	
o-Xylene	49.1	1.00	"	50.0	ND	98.2	70-130	1.60	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.4	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



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

Maggie Graham
Project Number: 275774
Project: WCR Properties 41-5/Spaur 1-5

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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.