

Attachment A

Laboratory Analytical Report



August 08, 2018

Apex Companies, LLC
Chandler Cole
4150 Darley Avenue, Suite 1

Boulder CO 80305

Project Name - KMG - WCR Properties 41-5/Spaur 1-5 Tank Battery
Project Number - [none]

Attached are your analytical results for KMG - WCR Properties 41-5/Spaur 1-5 Tank Battery received by Origins Laboratory, Inc. August 06, 2018. This project is associated with Origins project number Y808066-01.

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

Chandler Cole

Project Number: [none]

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

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW01	Y808066-01	Water	August 6, 2018 9:35	08/06/2018 16:45

Per the phone call from Chandler on 08-07-18, the GRO was removed from the results and only BTEX was reported.

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

Chandler Cole
Project Number: [none]
Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

ORIGINS

LABORATORY, INC

www.originslaboratory.com

page 1 of 1

Client: Apex Companies

Address: 1746 Cole Blvd, Lakewood, CO 80401

Telephone Number: 970-903-1260

Email Address: Chandler.Cole@apexcos.com

Project Manager: Chandler Cole

Project Name: WCR 41-5

Project Number: WO# 16D Greg Harrison

Samples Collected By: Ryan Finley

Bill to Anadarko

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysts				Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	HOLD SAR	EC, PH	DRO/KRO		
Gw#1	8/6/18	0935	3	X					X						1	
																2
																3
																4
																5
																6
																7
																8
																9
																10
Relinquished By: Ryan Finley	Date: 8/6/2018	Time: 1645	Time: 1645	Received By: [Signature]	Date: 8/6/18	Time: 1645	Time: 1645	Received By: [Signature]	Date: 8/6/18	Time: 1645	Time: 1645	Received By: [Signature]	Date: 8/6/18	Time: 1645	Time: 1645	Time: 1645
Relinquished By:	Date:	Time:	Time:	Received By:	Date:	Time:	Time:	Received By:	Date:	Time:	Time:	Received By:	Date:	Time:	Time:	Time:

5.3

Date Results Needed 7am,

Origins Laboratory, Inc.

Jeff Pellipini

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

Chandler Cole
Project Number: [none]
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: 1908066

Client: Apex
Client Project ID: KMG - WCR 41-5

Checklist Completed by: JG
Date/time completed: 8/6/2018

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A

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

Cooler Number/Temperature: 1 5.3 °C 1 °C 1 °C 1 °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 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 (> ½ 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 type="checkbox"/>	<input checked="" 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)

8/6/18
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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

Chandler Cole
Project Number: [none]
Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

GW01

8/6/2018 9:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y808066-01 (Water)

BTEX by EPA 8260C

Benzene	2010	50.0	ug/L	50	B8H0601	ZZZ	08/06/2018	08/07/2018	
Toluene	ND	4.00	"	4	"	ZZZ	"	08/06/2018	U
Ethylbenzene	56.0	4.00	"	"	"	ZZZ	"	"	
Xylenes, total	869	4.00	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.2 %	84-121	"	"	"
Surrogate: Toluene-d8	98.5 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	96.5 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Chandler Cole
Project Number: [none]
Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

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 B8H0601 - EPA 5030B (Water)

Blank (B8H0601-BLK1)

Prepared: 08/06/2018 Analyzed: 08/06/2018

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	68		"	62.5	109		84-121			
Surrogate: Toluene-d8	62		"	62.5	99.0		85-115			
Surrogate: 4-Bromofluorobenzene	59		"	62.5	93.6		84-114			

Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
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Chandler Cole
Project Number: [none]
Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

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 B8H0601 - EPA 5030B (Water)

LCS (B8H0601-BS1)

Prepared: 08/06/2018 Analyzed: 08/06/2018

Benzene	46.0	1.00	ug/L	50.0		92.0	73.3-129
Toluene	51.3	1.00	"	50.0		103	76.2-123
Ethylbenzene	52.4	1.00	"	50.0		105	73.6-130
m,p-Xylene	111	2.00	"	100		111	76.1-126
o-Xylene	48.1	1.00	"	50.0		96.2	76.6-124
Surrogate: 1,2-Dichloroethane-d4	68		"	62.5		108	84-121
Surrogate: Toluene-d8	62		"	62.5		98.8	85-115
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	84-114

Origins Laboratory, Inc.



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4150 Darley Avenue, Suite 1
Boulder CO 80305

Chandler Cole
Project Number: [none]
Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

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 B8H0601 - EPA 5030B (Water)

Matrix Spike (B8H0601-MS1)		Source: Y808047-01			Prepared: 08/06/2018 Analyzed: 08/06/2018					
Benzene	37.0	1.00	ug/L	50.0	ND	74.0	74-130			
Toluene	41.2	1.00	"	50.0	ND	82.5	73-131			
Ethylbenzene	40.3	1.00	"	50.0	ND	80.5	76-132			
m,p-Xylene	86.3	2.00	"	100	ND	86.3	69-139			
o-Xylene	37.7	1.00	"	50.0	ND	75.3	74-131			
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		107	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.9	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	84-114			

Origins Laboratory, Inc.



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

Chandler Cole
Project Number: [none]
Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

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 B8H0601 - EPA 5030B (Water)

Matrix Spike Dup (B8H0601-MSD1)		Source: Y808047-01			Prepared: 08/06/2018 Analyzed: 08/06/2018					
Benzene	40.9	1.00	ug/L	50.0	ND	81.8	74-130	9.98	20	
Toluene	45.6	1.00	"	50.0	ND	91.2	73-131	10.0	20	
Ethylbenzene	44.4	1.00	"	50.0	ND	88.9	76-132	9.87	20	
m,p-Xylene	95.0	2.00	"	100	ND	95.0	69-139	9.61	20	
o-Xylene	41.6	1.00	"	50.0	ND	83.1	74-131	9.84	20	
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		105	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.2	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	84-114			

Origins Laboratory, Inc.



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Apex Companies, LLC

4150 Darley Avenue, Suite 1

Boulder CO 80305

Chandler Cole

Project Number: [none]

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.



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August 08, 2018

Apex Companies, LLC
Chandler Cole
4150 Darley Avenue, Suite 1

Boulder CO 80305

Project Name - KMG - WCR Properties 41-5/Spaur 1-5 Tank Battery
Project Number - [none]

Attached are your analytical results for KMG - WCR Properties 41-5/Spaur 1-5 Tank Battery received by Origins Laboratory, Inc. August 07, 2018. This project is associated with Origins project number Y808084-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

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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

Chandler Cole

Project Number: [none]

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

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW02	Y808084-01	Water	August 7, 2018 15:10	08/07/2018 17:15

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

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

Chandler Cole
Project Number: [none]
Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

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page 1 of 1

1806084

ORIGINS LABORATORY, INC

Client: Apex Companies
Address: 1746 Cole Blvd, Lakewood, CO 80401
Telephone Number: 720-501-5052
Email Address: Chandler.Cole@apexcos.com

Project Manager: Chandler Cole
Project Name: WCR 41-5
Project Number: WO# TBD Greg Hamilton
Samples Collected By: Ryan Finley
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 Canister #	Other	RTX	
GWOZ	8/7/18	1510	3		X				X				1
													2
													3
													4
													5
													6
													7
													8
													9
													10

Relinquished By: [Signature] Date: 8/7/18 Time: 1715
Relinquished By: [Signature] Date: 8/7/18 Time: 1715

Turnaround Time: Same Day ☒ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard ☐

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

5,1 Date Results Needed Next day, 7am

Origins Laboratory, Inc.

Jefe Pellegrini

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

Chandler Cole
Project Number: [none]
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: 788084

Client: Apex Co.

Client Project ID: KMG - WCR 41-5

Checklist Completed by: Don Lee

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

Date/time completed: 6-7-13

Airbill #: NA

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

Cooler Number/Temperature: 15.1 °C 1 °C 1 °C 1 °C

Thermometer ID: 1003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 6-7-13

Origins Laboratory, Inc.

Jefe Pellegrini

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

Chandler Cole
Project Number: [none]
Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

GW02

8/7/2018 3:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y808084-01 (Water)

BTEX by EPA 8260C

Benzene	5.52	4.00	ug/L	4	B8H0701	ZZZ	08/07/2018	08/07/2018	
Toluene	ND	4.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	7.20	4.00	"	"	"	ZZZ	"	"	
Xylenes, total	23.5	4.00	"	"	"	ZZZ	"	"	
Surrogate: 1,2-Dichloroethane-d4	112 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	97.8 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.1 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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

Chandler Cole
Project Number: [none]
Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

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 B8H0701 - EPA 5030B (Water)

Blank (B8H0701-BLK1)

Prepared: 08/07/2018 Analyzed: 08/07/2018

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	66		"	62.5	105		84-121			
Surrogate: Toluene-d8	62		"	62.5	99.0		85-115			
Surrogate: 4-Bromofluorobenzene	59		"	62.5	93.9		84-114			

Origins Laboratory, Inc.



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

Chandler Cole
Project Number: [none]
Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B8H0701 - EPA 5030B (Water)

LCS (B8H0701-BS1)

Prepared: 08/07/2018 Analyzed: 08/07/2018

Benzene	47.2	1.00	ug/L	50.0		94.4	73.3-129			
Toluene	52.2	1.00	"	50.0		104	76.2-123			
Ethylbenzene	52.0	1.00	"	50.0		104	73.6-130			
m,p-Xylene	110	2.00	"	100		110	76.1-126			
o-Xylene	47.7	1.00	"	50.0		95.4	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.6	84-121			
Surrogate: Toluene-d8	61		"	62.5		98.2	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

Origins Laboratory, Inc.



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

Chandler Cole
Project Number: [none]
Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

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 B8H0701 - EPA 5030B (Water)

Matrix Spike (B8H0701-MS1)		Source: Y808061-02			Prepared: 08/07/2018 Analyzed: 08/07/2018					
Benzene	47.9	1.00	ug/L	50.0	ND	95.8	74-130			
Toluene	51.8	1.00	"	50.0	ND	104	73-131			
Ethylbenzene	51.3	1.00	"	50.0	0.060	102	76-132			
m,p-Xylene	108	2.00	"	100	ND	108	69-139			
o-Xylene	47.0	1.00	"	50.0	ND	94.1	74-131			
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		106	84-121			
Surrogate: Toluene-d8	60		"	62.5		96.5	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

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

Chandler Cole
Project Number: [none]
Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B8H0701 - EPA 5030B (Water)

Matrix Spike Dup (B8H0701-MSD1)		Source: Y808061-02			Prepared: 08/07/2018 Analyzed: 08/07/2018					
Benzene	48.0	1.00	ug/L	50.0	ND	96.0	74-130	0.125	20	
Toluene	52.6	1.00	"	50.0	ND	105	73-131	1.59	20	
Ethylbenzene	50.4	1.00	"	50.0	0.060	101	76-132	1.63	20	
m,p-Xylene	107	2.00	"	100	ND	107	69-139	1.23	20	
o-Xylene	46.9	1.00	"	50.0	ND	93.9	74-131	0.213	20	
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		107	84-121			
Surrogate: Toluene-d8	61		"	62.5		97.2	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		102	84-114			

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

Chandler Cole
Project Number: [none]
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.



November 29, 2018

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. November 20, 2018. This project is associated with Origins project number Y811322-01.

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

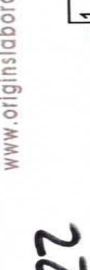
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y811322-01	Water	November 20, 2018 14:05	11/20/2018 17:35
MW02	Y811322-02	Water	November 20, 2018 14:20	11/20/2018 17:35
MW03	Y811322-03	Water	November 20, 2018 14:37	11/20/2018 17:35
MW04	Y811322-04	Water	November 20, 2018 14:47	11/20/2018 17:35

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.

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

		www.originslaboratory.com	
1/8/1322		page <input type="text" value="1"/> of <input type="text" value="1"/>	
Client: Apex Companies	Project Manager: Maggie Graham	wcl Pediatrics 4/5/Spur 1-5	
Address: 1746 Cole Blvd, Lakewood, CO 80401	Project Name: WO#89633985 Greg Hamilton	Ryan Finley	
Telephone Number: 720-501-5065	Samples Collected by:	Bill to Anadarko	
Email Address: Maggie.Graham@apexcos.com	Fax: 303.265.9645		

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix				Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other			
MWØ1	11/20/18	1405	3	X	X			X				BTX	11-20-18	1
MWØ2	↓	1420	↓					↓						2
MWØ3	↓	1437	↓					↓						3
MWØ4	↓	1447	↓					↓						4
														5
														6
														7
														8
														9
														10
Relinquished by: <i>[Signature]</i>	Date: 11/20/18	Time: 1735	Time: 1735	Received By: <i>[Signature]</i>				Date: 11-20-18				Time: 1735	Turnaround Time: 24 Hr <input checked="" type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/>	
Relinquished by: <i>[Signature]</i>	Date:	Time:	Time:	Received By:				Date:				Time:	Standard <input checked="" type="checkbox"/>	

Date Results Needed	Next day, 7am
---------------------	---------------

Jeff Pellgrini

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: Y811322

Client: Apex

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

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 11/21/2018

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 7.9 °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"/>		<u>Same Day</u>
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) JG

Date/Time Reviewed 11/26/18

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

MW01

11/20/2018 2:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811322-01 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K2703	KDK	11/27/2018	11/29/2018	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 %	84-121	"	"	"
Surrogate: Toluene-d8	97.7 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	84-114	"	"	"

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

MW02

11/20/2018 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc. Y811322-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K2703	KDK	11/27/2018	11/29/2018	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	106 %	84-121	"	"	"
Surrogate: Toluene-d8	97.2 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	84-114	"	"	"

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

MW03

11/20/2018 2:37:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811322-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K2703	KDK	11/27/2018	11/29/2018	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	108 %	84-121	"	"	"
Surrogate: Toluene-d8	96.6 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	84-114	"	"	"

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

MW04

11/20/2018 2:47:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y811322-04 (Water)

BTEX by EPA 8260C

Benzene	146	10.0	ug/L	10	B8K2703	KDK	11/27/2018	11/29/2018
Toluene	1.72	1.00	"	1	"	KDK	"	"
Ethylbenzene	43.4	1.00	"	"	"	KDK	"	"
Xylenes, total	292	1.00	"	"	"	KDK	"	"

Surrogate: 1,2-Dichloroethane-d4	106 %	84-121	"	"	"
Surrogate: Toluene-d8	92.1 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	84-114	"	"	"

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 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 B8K2703 - EPA 5030B (Water)

Blank (B8K2703-BLK1)

Prepared: 11/27/2018 Analyzed: 11/29/2018

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	65		"	62.5	103		84-121			
Surrogate: Toluene-d8	61		"	62.5	98.3		85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5	103		84-114			

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 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B8K2703 - EPA 5030B (Water)

LCS (B8K2703-BS1)

Prepared: 11/27/2018 Analyzed: 11/29/2018

Benzene	57.7	1.00	ug/L	50.0	115	73.3-129
Toluene	52.7	1.00	"	50.0	105	76.2-123
Ethylbenzene	49.8	1.00	"	50.0	99.5	73.6-130
m,p-Xylene	97.0	2.00	"	100	97.0	76.1-126
o-Xylene	54.4	1.00	"	50.0	109	76.6-124
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5	95.2	84-121
Surrogate: Toluene-d8	61		"	62.5	98.0	85-115
Surrogate: 4-Bromofluorobenzene	63		"	62.5	101	84-114

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 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B8K2703 - EPA 5030B (Water)

Matrix Spike (B8K2703-MS1)		Source: Y811339-01			Prepared: 11/27/2018 Analyzed: 11/29/2018					
Benzene	58.9	1.00	ug/L	50.0	ND	118	74-130			
Toluene	53.0	1.00	"	50.0	ND	106	73-131			
Ethylbenzene	48.0	1.00	"	50.0	ND	95.9	76-132			
m,p-Xylene	94.5	2.00	"	100	ND	94.5	69-139			
o-Xylene	54.1	1.00	"	50.0	ND	108	74-131			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.4	84-121			
Surrogate: Toluene-d8	61		"	62.5		98.1	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	84-114			

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 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B8K2703 - EPA 5030B (Water)

Matrix Spike Dup (B8K2703-MSD1)		Source: Y811339-01			Prepared: 11/27/2018 Analyzed: 11/29/2018					
Benzene	62.7	1.00	ug/L	50.0	ND	125	74-130	6.24	20	
Toluene	56.9	1.00	"	50.0	ND	114	73-131	7.06	20	
Ethylbenzene	51.7	1.00	"	50.0	ND	103	76-132	7.52	20	
m,p-Xylene	102	2.00	"	100	ND	102	69-139	7.29	20	
o-Xylene	57.8	1.00	"	50.0	ND	116	74-131	6.72	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.5	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.8	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.7	84-114			

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

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.



April 12, 2019

Apex Companies, LLC

Maggie Graham

4150 Darley Avenue, Suite 1

Boulder CO 80305

Project Name - KMG - WCR Properties 41-5

Project Number - 89633985

Attached are your analytical results for KMG - WCR Properties 41-5 received by Origins Laboratory, Inc. April 09, 2019. This project is associated with Origins project number Y904187-01.

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

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y904187-01	Water	April 9, 2019 13:30	04/09/2019 17:18
MW02	Y904187-02	Water	April 9, 2019 13:49	04/09/2019 17:18
MW03	Y904187-03	Water	April 9, 2019 14:12	04/09/2019 17:18
MW04	Y904187-04	Water	April 9, 2019 14:42	04/09/2019 17:18
MW05	Y904187-05	Water	April 9, 2019 15:10	04/09/2019 17:18
MW06	Y904187-06	Water	April 9, 2019 15:30	04/09/2019 17:18
MW07	Y904187-07	Water	April 9, 2019 15:55	04/09/2019 17:18
MW08	Y904187-08	Water	April 9, 2019 16:15	04/09/2019 17:18

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

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1904187

page 1 of 1

ORIGINS
LABORATORY, INC

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 Properties 41-5
Project Number: WOH# 89633985 Greg Hamilton
Samples Collected By: Ryan Finley
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 Canister #		
MW01	4/9/19	1330	3	X				X			GC/MS, SAR, Naphthalene, DRO/RRO, GFTX, IGTX	Standard turn 1
MW02		1349	1									2
MW03		1412	1									3
MW04		1442	1									4
MW05		1510	1									5
MW06		1530	1									6
MW07		1555	1									7
MW08		1615	1									8
												9
												10
Relinquished By:	Date:	4/9/19	Time:	1710	Received By:	Date:	4/9/19	Time:	1718	Turnaround Time:	24 Hr	
Relinquished By:	Date:		Time:		Received By:	Date:		Time:		48 Hr	72 Hr	
										Standard		

Date Results Needed Next day, 7am

19.7

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

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y904187

Client: Apex

Client Project ID: WCR Properties 41-5

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 4/10/2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 19.7 °C / °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"/>		<u>Same Day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 4/11/19

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 Properties 41-5

MW01

4/9/2019 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y904187-01 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9D1107	JTD	04/11/2019	04/12/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	115 %	70-130	"	"	"
Surrogate: Toluene-d8	98.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	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

MW02

4/9/2019 1:49:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y904187-02 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9D1107	JTD	04/11/2019	04/12/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	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

MW03

4/9/2019 2:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y904187-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9D1107	JTD	04/11/2019	04/12/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	116 %	70-130	"	"	"
Surrogate: Toluene-d8	99.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	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

MW04

4/9/2019 2:42:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y904187-04 (Water)

BTEX by EPA 8260D

Benzene	440	10.0	ug/L	10	B9D1107	JTD	04/11/2019	04/12/2019
Toluene	1.85	1.00	"	1	"	JTD	"	04/12/2019
Ethylbenzene	40.6	1.00	"	"	"	JTD	"	"
Xylenes, total	189	1.00	"	"	"	JTD	"	"

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130			"	"	"
Surrogate: Toluene-d8	99.9 %	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: 89633985
Project: KMG - WCR Properties 41-5

MW05

4/9/2019 3:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y904187-05 (Water)

BTEX by EPA 8260D

Benzene	1250	20.0	ug/L	20	B9D1107	JTD	04/11/2019	04/12/2019	
Toluene	ND	1.00	"	1	"	JTD	"	04/12/2019	U
Ethylbenzene	232	20.0	"	20	"	JTD	"	"	
Xylenes, total	1610	20.0	"	"	"	JTD	"	04/12/2019	

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	04/12/2019	
Surrogate: Toluene-d8	101 %	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: 89633985
Project: KMG - WCR Properties 41-5

MW06

4/9/2019 3:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y904187-06 (Water)

BTEX by EPA 8260D

Benzene	2.70	1.00	ug/L	1	B9D1107	JTD	04/11/2019	04/12/2019	
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	04/12/2019
Surrogate: Toluene-d8	99.1 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	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

MW07

4/9/2019 3:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y904187-07 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9D1107	JTD	04/11/2019	04/12/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	04/12/2019
Surrogate: Toluene-d8	99.5 %	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: 89633985
Project: KMG - WCR Properties 41-5

MW08

4/9/2019 4:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y904187-08 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9D1107	JTD	04/11/2019	04/12/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130	"	"	"
Surrogate: Toluene-d8	99.1 %	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: 89633985
Project: KMG - WCR Properties 41-5

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 B9D1107 - EPA 5030B (Water)										
Blank (B9D1107-BLK1)					Prepared: 04/11/2019 Analyzed: 04/11/2019					
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	68		"	62.5	108		70-130			
Surrogate: Toluene-d8	62		"	62.5	98.4		70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5	103		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

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 B9D1107 - EPA 5030B (Water)										
Blank (B9D1107-BLK2)					Prepared: 04/11/2019 Analyzed: 04/11/2019					
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	67		"	62.5	107		70-130			
Surrogate: Toluene-d8	62		"	62.5	99.1		70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5	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: 89633985
Project: KMG - WCR Properties 41-5

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 B9D1107 - EPA 5030B (Water)										
LCS (B9D1107-BS1)					Prepared: 04/11/2019 Analyzed: 04/11/2019					
Benzene	51.0	1.00	ug/L	50.0		102	70-130			
Toluene	50.0	1.00	"	50.0		100	70-130			
Ethylbenzene	50.5	1.00	"	50.0		101	70-130			
m,p-Xylene	101	2.00	"	100		101	70-130			
o-Xylene	50.3	1.00	"	50.0		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		103	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.4	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: 89633985
Project: KMG - WCR Properties 41-5

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 B9D1107 - EPA 5030B (Water)										
LCS (B9D1107-BS2)					Prepared: 04/11/2019 Analyzed: 04/11/2019					
Benzene	51.0	1.00	ug/L	50.0		102	70-130			
Toluene	50.5	1.00	"	50.0		101	70-130			
Ethylbenzene	50.8	1.00	"	50.0		102	70-130			
m,p-Xylene	101	2.00	"	100		101	70-130			
o-Xylene	50.5	1.00	"	50.0		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		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: 89633985
Project: KMG - WCR Properties 41-5

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 B9D1107 - EPA 5030B (Water)

Matrix Spike (B9D1107-MS1)		Source: Y904187-01			Prepared: 04/11/2019 Analyzed: 04/11/2019					
Benzene	41.7	1.00	ug/L	50.0	ND	83.4	70-130			
Toluene	41.2	1.00	"	50.0	ND	82.4	70-130			
Ethylbenzene	41.8	1.00	"	50.0	ND	83.7	70-130			
m,p-Xylene	83.2	2.00	"	100	ND	83.2	70-130			
o-Xylene	42.1	1.00	"	50.0	ND	84.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		106	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		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: 89633985
Project: KMG - WCR Properties 41-5

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 B9D1107 - EPA 5030B (Water)

Matrix Spike (B9D1107-MS2)		Source: Y904187-02			Prepared: 04/11/2019 Analyzed: 04/11/2019					
Benzene	49.5	1.00	ug/L	50.0	ND	99.1	70-130			
Toluene	49.8	1.00	"	50.0	ND	99.5	70-130			
Ethylbenzene	49.9	1.00	"	50.0	ND	99.9	70-130			
m,p-Xylene	100	2.00	"	100	ND	100	70-130			
o-Xylene	49.5	1.00	"	50.0	ND	99.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	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

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 B9D1107 - EPA 5030B (Water)										
Matrix Spike Dup (B9D1107-MSD1)	Source: Y904187-01				Prepared: 04/11/2019 Analyzed: 04/11/2019					
Benzene	42.2	1.00	ug/L	50.0	ND	84.4	70-130	1.19	20	
Toluene	41.4	1.00	"	50.0	ND	82.8	70-130	0.460	20	
Ethylbenzene	42.0	1.00	"	50.0	ND	84.1	70-130	0.477	20	
m,p-Xylene	84.4	2.00	"	100	ND	84.4	70-130	1.40	20	
o-Xylene	42.1	1.00	"	50.0	ND	84.3	70-130	0.119	20	
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		108	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

Origins Laboratory, Inc.



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Maggie Graham
Project Number: 89633985
Project: KMG - WCR Properties 41-5

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 B9D1107 - EPA 5030B (Water)										
Matrix Spike Dup (B9D1107-MSD2)	Source: Y904187-02				Prepared: 04/11/2019 Analyzed: 04/11/2019					
Benzene	50.4	1.00	ug/L	50.0	ND	101	70-130	1.84	20	
Toluene	49.8	1.00	"	50.0	ND	99.7	70-130	0.201	20	
Ethylbenzene	50.8	1.00	"	50.0	ND	102	70-130	1.69	20	
m,p-Xylene	101	2.00	"	100	ND	101	70-130	0.995	20	
o-Xylene	50.4	1.00	"	50.0	ND	101	70-130	1.78	20	
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		105	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	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

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.



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