



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. July 26, 2018. This project is associated with Origins project number Y807363-01.

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
N01@3'	Y807363-01	Soil	July 26, 2018 15:25	07/26/2018 17:35
E01@3'	Y807363-02	Soil	July 26, 2018 15:28	07/26/2018 17:35
S01@3'	Y807363-03	Soil	July 26, 2018 15:30	07/26/2018 17:35
B01@4.5'	Y807363-04	Soil	July 26, 2018 15:35	07/26/2018 17:35
W01@3'	Y807363-05	Soil	July 26, 2018 15:38	07/26/2018 17:35

Origins Laboratory, Inc.



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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: Y807363

Client: Apex

Client Project ID: KMG - WCR 41-5

Checklist Completed by: JG

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

Date/time completed: 7/26/2018

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 5.6 °C _____ °C _____ °C _____ °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 (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽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)

7/26/18
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

N01@3'

7/26/2018 3:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y807363-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B8G2604	ZZZ	07/26/2018	07/27/2018	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 72.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	0.252	0.200	mg/kg	1	B8G2602	ZZZ	07/26/2018	07/26/2018	
Benzene	0.004	0.002	"	"	"	ZZZ	"	"	
Toluene	ND	0.002	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.002	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.002	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 92.8 % 70-130 " " "
Surrogate: Toluene-d8 95.3 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 99.1 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.44		pH Units	1	B8G2609	OLAB	07/26/2018	07/26/2018	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0628	0.00504	mmhos/cm	"	B8G2610	OLAB	"	"	
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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

E01@3'

7/26/2018 3:28:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y807363-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B8G2604	ZZZ	07/26/2018	07/27/2018	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 68.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	0.355	0.200	mg/kg	1	B8G2602	ZZZ	07/26/2018	07/26/2018	
Benzene	0.022	0.002	"	"	"	ZZZ	"	"	
Toluene	ND	0.002	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.002	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.002	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 90.7 % 70-130 " " "
Surrogate: Toluene-d8 96.8 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 96.8 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.19		pH Units	1	B8G2609	OLAB	07/26/2018	07/26/2018	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0275	0.00500	mmhos/cm	"	B8G2610	OLAB	"	"	
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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

S01@3'

7/26/2018 3:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y807363-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B8G2604	ZZZ	07/26/2018	07/27/2018	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 77.5 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8G2602	ZZZ	07/26/2018	07/27/2018	U
Benzene	ND	0.002	"	"	"	ZZZ	"	"	U
Toluene	ND	0.002	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.002	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.002	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 91.4 % 70-130 " " "
Surrogate: Toluene-d8 97.1 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 95.2 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.25		pH Units	1	B8G2609	OLAB	07/26/2018	07/26/2018	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0284	0.00501	mmhos/cm	"	B8G2610	OLAB	"	"	
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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

B01@4.5'
7/26/2018 3:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y807363-04 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B8G2604	ZZZ	07/26/2018	07/27/2018	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 73.2 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8G2602	ZZZ	07/26/2018	07/27/2018	U
Benzene	0.009	0.002	"	"	"	ZZZ	"	"	
Toluene	ND	0.002	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.002	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.002	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 92.9 % 70-130 " " "
Surrogate: Toluene-d8 97.4 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 96.7 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.74		pH Units	1	B8G2609	OLAB	07/26/2018	07/26/2018	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.118	0.00509	mmhos/cm	"	B8G2610	OLAB	"	"	
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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

W01@3'

7/26/2018 3:38:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y807363-05 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B8G2604	ZZZ	07/26/2018	07/27/2018	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 84.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8G2602	ZZZ	07/26/2018	07/27/2018	U
Benzene	0.018	0.002	"	"	"	ZZZ	"	"	
Toluene	ND	0.002	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.002	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.002	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 93.8 % 70-130 " " "
Surrogate: Toluene-d8 117 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 116 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.89		pH Units	1	B8G2609	OLAB	07/26/2018	07/26/2018	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0533	0.00500	mmhos/cm	"	B8G2610	OLAB	"	"	
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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
Batch B8G2602 - EPA 5030 (soil)										
Blank (B8G2602-BLK1)					Prepared: 07/26/2018 Analyzed: 07/26/2018					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.6	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		100	70-130			

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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
Batch B8G2602 - EPA 5030 (soil)										
Blank (B8G2602-BLK2)					Prepared: 07/26/2018 Analyzed: 07/26/2018					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	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

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 B8G2602 - EPA 5030 (soil)										
LCS (B8G2602-BS1)					Prepared: 07/26/2018 Analyzed: 07/26/2018					
Benzene	0.103	0.002	mg/kg	0.100		103	77.1-124			
Toluene	0.104	0.002	"	0.100		104	74.5-128			
Ethylbenzene	0.104	0.002	"	0.100		104	66.4-127			
m,p-Xylene	0.207	0.004	"	0.200		103	76.6-124			
o-Xylene	0.104	0.002	"	0.100		104	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		93.6	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.3	70-130			

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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
Batch B8G2602 - EPA 5030 (soil)										
LCS (B8G2602-BS2)					Prepared: 07/26/2018 Analyzed: 07/26/2018					
Benzene	0.107	0.002	mg/kg	0.100		107	77.1-124			
Toluene	0.107	0.002	"	0.100		107	74.5-128			
Ethylbenzene	0.110	0.002	"	0.100		110	66.4-127			
m,p-Xylene	0.219	0.004	"	0.200		110	76.6-124			
o-Xylene	0.109	0.002	"	0.100		109	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.1	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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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 B8G2602 - EPA 5030 (soil)

Matrix Spike (B8G2602-MS1)		Source: Y807355-01			Prepared: 07/26/2018 Analyzed: 07/26/2018					
Benzene	0.099	0.002	mg/kg	0.100	ND	99.3	71.8-126			
Toluene	0.100	0.002	"	0.100	ND	99.9	65.1-130			
Ethylbenzene	0.101	0.002	"	0.100	ND	101	62.2-130			
m,p-Xylene	0.202	0.004	"	0.200	ND	101	46.5-137			
o-Xylene	0.100	0.002	"	0.100	ND	100	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.4	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.7	70-130			

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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 B8G2602 - EPA 5030 (soil)

Matrix Spike (B8G2602-MS2)		Source: Y807355-02			Prepared: 07/26/2018 Analyzed: 07/26/2018					
Benzene	0.104	0.002	mg/kg	0.100	ND	104	71.8-126			
Toluene	0.103	0.002	"	0.100	ND	103	65.1-130			
Ethylbenzene	0.103	0.002	"	0.100	ND	103	62.2-130			
m,p-Xylene	0.206	0.004	"	0.200	ND	103	46.5-137			
o-Xylene	0.103	0.002	"	0.100	ND	103	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		98.6	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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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 B8G2602 - EPA 5030 (soil)

Matrix Spike Dup (B8G2602-MSD1)		Source: Y807355-01			Prepared: 07/26/2018 Analyzed: 07/26/2018					
Benzene	0.101	0.002	mg/kg	0.100	ND	101	71.8-126	1.76	11.3	
Toluene	0.102	0.002	"	0.100	ND	102	65.1-130	1.65	15.4	
Ethylbenzene	0.102	0.002	"	0.100	ND	102	62.2-130	0.711	19.6	
m,p-Xylene	0.205	0.004	"	0.200	ND	103	46.5-137	1.59	19.2	
o-Xylene	0.102	0.002	"	0.100	ND	102	54.2-134	2.15	17.9	
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.0	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.4	70-130			

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 B8G2602 - EPA 5030 (soil)

Matrix Spike Dup (B8G2602-MSD2)		Source: Y807355-02			Prepared: 07/26/2018 Analyzed: 07/26/2018					
Benzene	0.104	0.002	mg/kg	0.100	ND	104	71.8-126	0.596	11.3	
Toluene	0.102	0.002	"	0.100	ND	102	65.1-130	0.176	15.4	
Ethylbenzene	0.100	0.002	"	0.100	ND	100	62.2-130	2.21	19.6	
m,p-Xylene	0.201	0.004	"	0.200	ND	100	46.5-137	2.47	19.2	
o-Xylene	0.101	0.002	"	0.100	ND	101	54.2-134	1.59	17.9	
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.2	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		100	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8G2604 - EPA 3550B

Blank (B8G2604-BLK1)

Prepared: 07/26/2018 Analyzed: 07/26/2018

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	37		"	50.0		74.8	59-131			

Blank (B8G2604-BLK2)

Prepared: 07/26/2018 Analyzed: 07/26/2018

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	44		"	50.0		87.5	59-131			

LCS (B8G2604-BS1)

Prepared: 07/26/2018 Analyzed: 07/26/2018

Diesel (C10-C28)	804	50.0	mg/kg	1000		80.4	64-121			
Residual Range Organics (C28-C40)	934	200	"	1000		93.4	58-124			
Surrogate: o-Terphenyl	47		"	50.0		94.4	59-131			

LCS (B8G2604-BS2)

Prepared: 07/26/2018 Analyzed: 07/26/2018

Diesel (C10-C28)	839	50.0	mg/kg	1000		83.9	64-121			
Residual Range Organics (C28-C40)	946	200	"	1000		94.6	58-124			
Surrogate: o-Terphenyl	47		"	50.0		93.1	59-131			

Matrix Spike (B8G2604-MS1)

Source: Y807346-01

Prepared: 07/26/2018 Analyzed: 07/26/2018

Diesel (C10-C28)	898	50.0	mg/kg	1000	ND	89.8	53-125			
Residual Range Organics (C28-C40)	1020	200	"	1000	8.64	101	47-133			

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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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8G2604 - EPA 3550B										
Matrix Spike (B8G2604-MS1)		Source: Y807346-01			Prepared: 07/26/2018 Analyzed: 07/26/2018					
Surrogate: o-Terphenyl	51		mg/kg	50.0		101	59-131			
Matrix Spike (B8G2604-MS2)		Source: Y807356-01			Prepared: 07/26/2018 Analyzed: 07/26/2018					
Diesel (C10-C28)	868	50.0	mg/kg	1000	ND	86.8	53-125			
Residual Range Organics (C28-C40)	984	200	"	1000	19.4	96.5	47-133			
Surrogate: o-Terphenyl	47		"	50.0		94.3	59-131			
Matrix Spike Dup (B8G2604-MSD1)		Source: Y807346-01			Prepared: 07/26/2018 Analyzed: 07/26/2018					
Diesel (C10-C28)	876	50.0	mg/kg	1000	ND	87.6	53-125	2.51	20	
Residual Range Organics (C28-C40)	1020	200	"	1000	8.64	102	47-133	0.633	20	
Surrogate: o-Terphenyl	50		"	50.0		99.1	59-131			
Matrix Spike Dup (B8G2604-MSD2)		Source: Y807356-01			Prepared: 07/26/2018 Analyzed: 07/26/2018					
Diesel (C10-C28)	838	50.0	mg/kg	1000	ND	83.8	53-125	3.51	20	
Residual Range Organics (C28-C40)	967	200	"	1000	19.4	94.8	47-133	1.75	20	
Surrogate: o-Terphenyl	48		"	50.0		96.9	59-131			

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

Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8G2609 - NO PREP										
Duplicate (B8G2609-DUP1)		Source: Y807362-01			Prepared: 07/26/2018 Analyzed: 07/26/2018					
pH	7.55		pH Units		7.87			4.15	25	
Batch B8G2610 - NO PREP										
Blank (B8G2610-BLK1)		Prepared: 07/26/2018 Analyzed: 07/26/2018								
Specific Conductance (EC)	0.00410	0.00500	mmhos/cm							
Duplicate (B8G2610-DUP1)		Source: Y807362-01			Prepared: 07/26/2018 Analyzed: 07/26/2018					
Specific Conductance (EC)	0.159	0.00500	mmhos/cm		0.175			9.58	25	

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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

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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