



October 12, 2017

Apex Companies, LLC

Chandler Cole

4150 Darley Avenue, Suite 1

Boulder CO 80305

Project Name - KMG - Troutd 44-7 FP

Project Number - 89374932

Attached are your analytical results for KMG - Troutd 44-7 FP received by Origins Laboratory, Inc. October 11, 2017. This project is associated with Origins project number Y710154-01.

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: 89374932  
Project: KMG - Troudt 44-7 FP

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@6'	Y710154-01	Soil	October 11, 2017 13:30	10/11/2017 15:17
S01@4'	Y710154-02	Soil	October 11, 2017 13:35	10/11/2017 15:17
E01@4'	Y710154-03	Soil	October 11, 2017 13:42	10/11/2017 15:17
W01@4'	Y710154-04	Soil	October 11, 2017 13:45	10/11/2017 15:17
N01@4'	Y710154-05	Soil	October 11, 2017 13:47	10/11/2017 15:17

Origins Laboratory, Inc.



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Chandler Cole  
Project Number: 89374932  
Project: KMG - Troutd 44-7 FP

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page 1 of 1

1710154

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: Troutd 44-7 FP  
Project Number: WO#89374932  
Samples Collected By: Erik Mickelson  
Brian Gibson  
Bill to Anadarko

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa #	Other	GRTEX	DRO/RRO	EC, pH	
301e6'	10/11/2017	1330	1	X					X				X	X	1
301e4'		1335	1												2
EO1e4'		1342	1												3
W01e4'		1345	1												4
NO1e4'		1347	1												5
Background		1400	1												6
															7
															8
															9
															10
Relinquished By: <i>[Signature]</i>	Date: 10/11/2017	Time: 1517		Received By: <i>[Signature]</i>	Date: 10-11-17	Time: 1517		Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>							
Relinquished By:	Date:	Time:		Received By:	Date:	Time:									

Date Results Needed 7am. 10/12/2017

Origins Laboratory, Inc.

*Jefe Pellegrini*

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Chandler Cole  
Project Number: 89374932  
Project: KMG - Trout 44-7 FP

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: Y710154

Client: Apex Co.

Client Project ID: mgd - Trout 44-7 FP

Checklist Completed by: Joe W

Shipped Via: 147

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

Date/time completed: 10-11-12 1523

Airbill #: NR

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

Cooler Number/Temperature: 1 11.0 °C 1 °C 1 °C (Describe) 1 °C

Thermometer ID: 1003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		sampled 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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			pid
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

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

Reviewed by (Project Manager)

Date/Time Reviewed 10-11-12 1523

Origins Laboratory, Inc.

*Joe Pellegrini*

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

Chandler Cole  
Project Number: 89374932  
Project: KMG - Troutd 44-7 FP

B01@6'

10/11/2017 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y710154-01 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	1010	25.0	mg/kg	1	B7J1104	10/11/2017	10/11/2017	
Residual Range Organics (C28-C40)	190	100	"	"	"	"	"	

Surrogate: o-Terphenyl	102 %	59-131			"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	650	50.0	mg/kg	250	B7J1103	10/11/2017	10/11/2017	
Benzene	0.431	0.050	"	25	"	"	10/12/2017	
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	2.66	0.050	"	"	"	"	"	
Xylenes, total	12.2	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130			"	"	10/11/2017	
Surrogate: Toluene-d8	91.1 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	

**pH in Soil by EPA 9045D**

pH	9.48		pH Units	1	B7J1105	10/11/2017	10/11/2017	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.342		mmhos/cm	"	B7J1106	10/11/2017	"	
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Chandler Cole  
Project Number: 89374932  
Project: KMG - Troutd 44-7 FP

S01@4'

10/11/2017 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y710154-02 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7J1104	10/11/2017	10/11/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 78.8 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7J1103	10/11/2017	10/11/2017	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	0.011	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 99.1 % 70-130 " " "  
Surrogate: Toluene-d8 98.2 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 97.8 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	8.89		pH Units	1	B7J1105	10/11/2017	10/11/2017	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.164		mmhos/cm	"	B7J1106	10/11/2017	"	
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Chandler Cole  
Project Number: 89374932  
Project: KMG - Troutd 44-7 FP

E01@4'

10/11/2017 1:42:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y710154-03 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	1660	25.0	mg/kg	1	B7J1104	10/11/2017	10/11/2017	
Residual Range Organics (C28-C40)	465	100	"	"	"	"	"	

Surrogate: o-Terphenyl	115 %	59-131			"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	326	50.0	mg/kg	250	B7J1103	10/11/2017	10/11/2017	
Benzene	ND	0.050	"	25	"	"	10/12/2017	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	0.344	0.050	"	"	"	"	"	
Xylenes, total	0.689	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130			"	"	10/11/2017	
Surrogate: Toluene-d8	97.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

**pH in Soil by EPA 9045D**

pH	7.78		pH Units	1	B7J1105	10/11/2017	10/11/2017	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.268		mmhos/cm	"	B7J1106	10/11/2017	"	
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Project Number: 89374932  
Project: KMG - Troutd 44-7 FP

W01@4'

10/11/2017 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y710154-04 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	869	25.0	mg/kg	1	B7J1104	10/11/2017	10/11/2017	
Residual Range Organics (C28-C40)	107	100	"	"	"	"	"	

Surrogate: o-Terphenyl	84.3 %	59-131			"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	407	50.0	mg/kg	250	B7J1103	10/11/2017	10/11/2017	
Benzene	0.160	0.050	"	25	"	"	10/12/2017	
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	1.24	0.050	"	"	"	"	"	
Xylenes, total	5.81	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	94.0 %	70-130			"	"	10/11/2017	
Surrogate: Toluene-d8	95.4 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

**pH in Soil by EPA 9045D**

pH	8.35		pH Units	1	B7J1105	10/11/2017	10/11/2017	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.216		mmhos/cm	"	B7J1106	10/11/2017	"	
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Chandler Cole  
Project Number: 89374932  
Project: KMG - Troutd 44-7 FP

N01@4'

10/11/2017 1:47:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y710154-05 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	2140	25.0	mg/kg	1	B7J1104	10/11/2017	10/11/2017	
Residual Range Organics (C28-C40)	754	100	"	"	"	"	"	

Surrogate: o-Terphenyl	124 %	59-131			"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	933	50.0	mg/kg	250	B7J1103	10/11/2017	10/11/2017	
Benzene	0.468	0.050	"	25	"	"	10/12/2017	
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	4.84	0.050	"	"	"	"	"	
Xylenes, total	24.4	0.498	"	250	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	92.9 %	70-130			"	"	10/11/2017	
Surrogate: Toluene-d8	87.0 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"	

**pH in Soil by EPA 9045D**

pH	8.63		pH Units	1	B7J1105	10/11/2017	10/11/2017	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.258		mmhos/cm	"	B7J1106	10/11/2017	"	
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Chandler Cole  
Project Number: 89374932  
Project: KMG - Troutd 44-7 FP

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B7J1103 - EPA 5030 (soil)</b>										
<b>Blank (B7J1103-BLK1)</b>					Prepared: 10/11/2017 Analyzed: 10/11/2017					
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		102	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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Project: KMG - Troutdt 44-7 FP

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B7J1103 - EPA 5030 (soil)</b>										
<b>LCS (B7J1103-BS1)</b>					Prepared: 10/11/2017 Analyzed: 10/11/2017					
Benzene	0.099	0.002	mg/kg	0.100		98.8	77.1-124			
Toluene	0.096	0.002	"	0.100		96.5	74.5-128			
Ethylbenzene	0.110	0.002	"	0.100		110	66.4-127			
m,p-Xylene	0.200	0.004	"	0.200		100	76.6-124			
o-Xylene	0.103	0.002	"	0.100		103	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		96.9	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.5	70-130			

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Chandler Cole  
Project Number: 89374932  
Project: KMG - Troutdt 44-7 FP

**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 B7J1103 - EPA 5030 (soil)**

Matrix Spike (B7J1103-MS1)		Source: Y710155-03			Prepared: 10/11/2017 Analyzed: 10/11/2017					
Benzene	0.097	0.002	mg/kg	0.100	ND	97.2	71.8-126			
Toluene	0.094	0.002	"	0.100	ND	93.8	65.1-130			
Ethylbenzene	0.098	0.002	"	0.100	ND	97.5	62.2-130			
m,p-Xylene	0.191	0.004	"	0.200	ND	95.6	46.5-137			
o-Xylene	0.093	0.002	"	0.100	ND	93.4	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		93.9	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.3	70-130			

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Boulder CO 80305

Chandler Cole  
Project Number: 89374932  
Project: KMG - Troutd 44-7 FP

**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 B7J1103 - EPA 5030 (soil)**

Matrix Spike Dup (B7J1103-MSD1)		Source: Y710155-03			Prepared: 10/11/2017 Analyzed: 10/11/2017					
Benzene	0.098	0.002	mg/kg	0.100	ND	97.9	71.8-126	0.656	11.3	
Toluene	0.096	0.002	"	0.100	ND	96.1	65.1-130	2.42	15.4	
Ethylbenzene	0.099	0.002	"	0.100	ND	98.8	62.2-130	1.32	19.6	
m,p-Xylene	0.191	0.004	"	0.200	ND	95.6	46.5-137	0.0523	19.2	
o-Xylene	0.095	0.002	"	0.100	ND	94.9	54.2-134	1.61	17.9	
Surrogate: 1,2-Dichloroethane-d4	57		ug/kg	62.5		91.8	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.3	70-130			

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Project Number: 89374932  
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**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**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 B7J1104 - EPA 3550B**

**Blank (B7J1104-BLK1)**

Prepared: 10/11/2017 Analyzed: 10/11/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	50		"	50.0		99.2	59-131			

**LCS (B7J1104-BS1)**

Prepared: 10/11/2017 Analyzed: 10/11/2017

Diesel (C10-C28)	981	50.0	mg/kg	1000		98.1	64-121			
Residual Range Organics (C28-C40)	1020	200	"	1000		102	58-124			
Surrogate: o-Terphenyl	51		"	50.0		103	59-131			

**Matrix Spike (B7J1104-MS1)**

**Source: Y710155-03**

Prepared: 10/11/2017 Analyzed: 10/11/2017

Diesel (C10-C28)	898	50.0	mg/kg	1000	13.6	88.4	53-125			
Residual Range Organics (C28-C40)	907	200	"	1000	ND	90.7	47-133			
Surrogate: o-Terphenyl	47		"	50.0		93.8	59-131			

**Matrix Spike Dup (B7J1104-MSD1)**

**Source: Y710155-03**

Prepared: 10/11/2017 Analyzed: 10/11/2017

Diesel (C10-C28)	904	50.0	mg/kg	1000	13.6	89.0	53-125	0.698	20	
Residual Range Organics (C28-C40)	945	200	"	1000	ND	94.5	47-133	4.06	20	
Surrogate: o-Terphenyl	49		"	50.0		97.3	59-131			

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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: 89374932  
Project: KMG - Troutd 44-7 FP

## Classical Chemistry Parameters - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B7J1105 - NO PREP</b>										
<b>Duplicate (B7J1105-DUP1)</b>		<b>Source: Y710155-03</b>			Prepared: 10/11/2017 Analyzed: 10/11/2017					
pH	8.31		pH Units		8.74			5.04	25	
<b>Batch B7J1106 - NO PREP</b>										
<b>Blank (B7J1106-BLK1)</b>		Prepared: 10/11/2017 Analyzed: 10/11/2017								
Specific Conductance (EC)	0.00220		mmhos/cm							
<b>Duplicate (B7J1106-DUP1)</b>		<b>Source: Y710155-03</b>			Prepared: 10/11/2017 Analyzed: 10/11/2017					
Specific Conductance (EC)	0.0600		mmhos/cm		0.0619			3.12	25	

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### Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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