



January 18, 2019

Greg Hamilton  
Sr. Staff HSE Representative  
Kerr-McGee Oil & Gas Onshore, LP  
1099 18th Street, Suite 1800  
Denver, Colorado 80202

**Re: Sump Closure Summary Report  
HSR-SALAZAR-5-20 Tank Battery  
Location ID: 330070  
SWNW - Sec20 - T3N - 67W  
COGCC Remediation Number 12301**

Dear Mr. Hamilton:

Apex Companies, LLC (Apex) is providing Kerr-McGee Oil & Gas Onshore, LP (Kerr-McGee) with this Sump Closure Summary Report to document sampling activities and the results of environmental testing at the tank battery associated with the HSR-SALAZAR 5-20 well. This report documents the activities related to the closure and replacement of a produced-water sump under Remediation Number 12301, as approved by the COGCC. Apex provided the environmental services at the site that included a collection of confirmation samples from the sump excavation and documentation of field activities, as described below.

### **Site Assessment Activities**

The field activities described herein were performed on November 15, 2018, with the purpose of assessing potential hydrocarbon impacts at the site related to the replacement of a partially-buried produced-water sump. Soil sampling activities, laboratory analytical results, and conclusions are presented below. The general site layout and sample locations are provided in Figure 1.

The final extent of the excavation measured approximately 25 feet by 24 feet, at an approximate depth of 5 feet below ground surface (bgs). Impacted soil or groundwater was not encountered within the excavation.

Confirmation soil samples were collected from the excavation in relation to the removed sump. The decommissioned sump excavation samples were collected from four sidewalls at approximately 3 feet bgs, and a base sample was collected at 5 feet bgs. Sidewall and base soil samples were field-screened for volatile organic compound values using a calibrated photoionization detector. Based on the field screening, the base sample (B01@5') was submitted to Origins Laboratory in Denver, Colorado for analysis. The sample was analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) and total petroleum hydrocarbons (TPH) – gasoline range organics (GRO) by United States Environmental Protection Agency (USEPA) Method 8260, TPH – diesel range and residual range organics (DRO and RRO, respectively) by USEPA Method 8015, electrical conductivity (EC), and pH. Soil analytical data are summarized in Table 1 and the laboratory analytical report is provided in Attachment A.

## Results

Analytical results from the confirmation soil sample (B01@5') collected from the final extent of the excavation indicate that BTEX, TPH, EC, and pH concentrations were in full compliance with COGCC Table 910-1 allowable levels. The remaining samples collected from the excavation area were not submitted for laboratory analysis, as analytical data from the submitted confirmed the absence of petroleum hydrocarbon impacts above COGCC Table 910-1 standards.

## Conclusions

Analytical results described herein confirm BTEX and TPH impacts are not present at concentrations above applicable regulatory standards at the former partially-buried produced-water sump location. Consequently, no further site assessment or remedial activity is warranted at this time. Following site assessment activities, a new produced-water vessel was installed at the site in the location of the former sump.

Please contact me at (720) 501-5065 if you have any questions regarding this report or require additional information.

Sincerely,

**Apex Companies, LLC**

*Maggie Graham*

Maggie Graham  
Senior Project Manager

Attachments:

Figure 1 – HSR-SALAZAR 5-20 - Facility Layout & Sample Locations  
Table 1 – Soil Sample Analytical Results  
Attachment A – Laboratory Analytical Report



**Figure 1**  
**HSR-Salazar 5-20**  
**Facility Layout &**  
**Sample Locations**

**Legend**

- Soil Sample (11/15/2018)
- Crude Oil Tank
- Former Produced Water Sump
- Former Secondary Containment
- Excavation Extent (11/15/2018)

**Sample Location**

B: benzene  
T: toluene  
E: ethylbenzene  
X: xylenes  
TPH: total petroleum hydrocarbons

**Site Characteristics**

**Legal Location:** SWNW, Sec 20, T3N  
**R67W County:** Weld  
**Land Use:** Cropland  
**Topography:** 3-5% Slopes  
**Run-Off Risk:** Low  
**Soil Type:** Wiley-Colby complex

REVISED	BY	COMMENT
11/26/2018	BJB	Figure 1

Apex Companies, LLC  
beau.bergstrom@apexcos.com  
M:\Projects\Anadarko\DJL\_Basin\Remediation\HSR-Salazar-63N67W\_20SWNW\HSR-Salazar-63N67W\_20SWNW\_Fig1.dwg 20181126.mxd



## Table 1 - Soil Sample Analytical Results

Kerr-McGee Oil and Gas Onshore LP  
 Location Name: HSR-SALAZAR 5-20  
 Location ID: 330070  
 County: Weld

			Organics (mg/kg)								
COGCC Allowable Concentration (Soil) -->			500			0.17	85	100	175	4	(6-9)
Sample ID:	Sample Date:	Sample Depth:	TPH-GRO (C6-C10) Low Fraction	TPH-DRO (C10-C28) High Fraction	TPH-RRO (C28-C40) High Fraction	Benzene	Toluene	Ethylbenzene	Xylenes - total	EC (<4 mmhos/cm or 2x background)	pH (unit)
B01@5'	11/15/18	5'	<0.200	<25.0	<100	<0.002	<0.002	<0.002	<0.002	0.0271	7.38

Notes:

TPH Total Petroleum Hydrocarbons  
 GRO Gasoline Range Organics (C6-C10)  
 DRO Diesel Range Organics (C10-C28)  
 RRO Residual Range Organics (C28-C36)

bgs below ground surface  
 mg/kg milligrams per kilogram  
 mmhos/cm millimhos per centimeter  
 NA Not analyzed/ Not applicable  
 COGCC Colorado Oil and Gas Conservation Commission

**Attachment A**

**Laboratory Analytical Report**



November 16, 2018

Apex Companies, LLC

Maggie Graham

4150 Darley Avenue, Suite 1

Boulder CO 80305

Project Name - KMG - Salazar 5-20

Project Number - COT0140

Attached are your analytical results for KMG - Salazar 5-20 received by Origins Laboratory, Inc. November 15, 2018. This project is associated with Origins project number Y811248-05.

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: COT0140

Project: KMG - Salazar 5-20

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@5'	Y811248-05	Soil	November 15, 2018 15:33	11/15/2018 18:00

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: COT0140  
Project: KMG - Salazar 5-20

# ORIGINS

LABORATORY, INC

www.originslaboratory.com

Y811248

page 1 of 1

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

Project Manager: Maggie Graham  
Project Name: SAL92AR S-20  
Project Number: WO# 0010140 Greg Hamilton  
Samples Collected By: Kate MacDonald  
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	As Sample	Other	CBTEX	DRO/RRO	EC, pH	HOLD SAR	
N0103'	10/15/18	1525	1	X						X					1	HOLD pending
W0103'		1527	1	X						X					2	bnce
S0103'		1530	1	X						X					3	
E0103'		1531	1	X						X					4	↓
B0105'		1533	1	X						X		X	X	X	5	
															6	
															7	
															8	
															9	
															10	
Relinquished By:	Date: 11/15/19	Time: 1700								Received By:	Date: 11-15-19	Time: 1800			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:				

Fax: 303.265.9645

Phone: 303.433.1322

Denver, CO 80211

1725 Elk Place

Origins Laboratory, Inc.

Jeff Pellipini

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

Maggie Graham  
Project Number: COT0140  
Project: KMG - Salazar 5-20

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 4811242

Client: Apex Co.

Client Project ID: KMG - Salazar 5-20

Checklist Completed by: [Signature]

Shipped Via: (11)  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 11-15-12

Airbill #: NA

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

Cooler Number/Temperature: ☒ 3.7 °C ☐ °C ☐ °C (Describe) ☐ °C

Thermometer ID: 1203

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

Date/Time Reviewed 11-15-12

Origins Laboratory, Inc.

[Signature]

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

Maggie Graham  
Project Number: COT0140  
Project: KMG - Salazar 5-20

B01@5'

11/15/2018 3:33:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y811248-05 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B8K1502	JTD	11/15/2018	11/15/2018	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl 84.0 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B8K1504	JTD	11/15/2018	11/15/2018	U
Benzene	ND	0.050	"	"	"	JTD	"	"	U
Toluene	ND	0.050	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.050	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.050	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.7 % 70-130 " " "  
Surrogate: Toluene-d8 102 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 97.0 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.38		pH Units	1	B8K1506	OLAB	11/15/2018	11/15/2018	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.0271	0.00500	mmhos/cm	"	B8K1507	OLAB	11/15/2018	"	
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Origins Laboratory, Inc.



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

Maggie Graham  
Project Number: COT0140  
Project: KMG - Salazar 5-20

**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 B8K1504 - EPA 5030 (soil)</b>										
<b>Blank (B8K1504-BLK1)</b>					Prepared: 11/15/2018 Analyzed: 11/15/2018					
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	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.5	70-130			

Origins Laboratory, Inc.



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

Maggie Graham  
Project Number: COT0140  
Project: KMG - Salazar 5-20

**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 B8K1504 - EPA 5030 (soil)</b>										
<b>LCS (B8K1504-BS1)</b>					Prepared: 11/15/2018 Analyzed: 11/15/2018					
Benzene	0.095	0.002	mg/kg	0.100		95.3	77.1-124			
Toluene	0.106	0.002	"	0.100		106	74.5-128			
Ethylbenzene	0.104	0.002	"	0.100		104	66.4-127			
m,p-Xylene	0.209	0.004	"	0.200		104	76.6-124			
o-Xylene	0.103	0.002	"	0.100		103	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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Boulder CO 80305

Maggie Graham  
Project Number: COT0140  
Project: KMG - Salazar 5-20

**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 B8K1504 - EPA 5030 (soil)**

Matrix Spike (B8K1504-MS1)		Source: Y811239-01			Prepared: 11/15/2018 Analyzed: 11/15/2018					
Benzene	0.107	0.002	mg/kg	0.100	ND	107	71.8-126			
Toluene	0.104	0.002	"	0.100	ND	104	65.1-130			
Ethylbenzene	0.107	0.002	"	0.100	ND	107	62.2-130			
m,p-Xylene	0.213	0.004	"	0.200	ND	106	46.5-137			
o-Xylene	0.106	0.002	"	0.100	0.0003	106	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		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: COT0140  
Project: KMG - Salazar 5-20

**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 B8K1504 - EPA 5030 (soil)**

Matrix Spike Dup (B8K1504-MSD1)		Source: Y811239-01			Prepared: 11/15/2018 Analyzed: 11/15/2018					
Benzene	0.110	0.002	mg/kg	0.100	ND	110	71.8-126	2.58	11.3	
Toluene	0.105	0.002	"	0.100	ND	105	65.1-130	1.45	15.4	
Ethylbenzene	0.109	0.002	"	0.100	ND	109	62.2-130	1.48	19.6	
m,p-Xylene	0.216	0.004	"	0.200	ND	108	46.5-137	1.35	19.2	
o-Xylene	0.108	0.002	"	0.100	0.0003	108	54.2-134	2.07	17.9	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		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: COT0140  
Project: KMG - Salazar 5-20

**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 B8K1502 - EPA 3580**

**Blank (B8K1502-BLK1)**

Prepared: 11/15/2018 Analyzed: 11/15/2018

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	40		"	50.0		79.9	59-131			

**LCS (B8K1502-BS1)**

Prepared: 11/15/2018 Analyzed: 11/15/2018

Diesel (C10-C28)	947	50.0	mg/kg	1000		94.7	64-121			
Residual Range Organics (C28-C40)	1020	200	"	1000		102	58-124			
Surrogate: o-Terphenyl	45		"	50.0		89.4	59-131			

**Matrix Spike (B8K1502-MS1)**

**Source: Y811239-01**

Prepared: 11/15/2018 Analyzed: 11/15/2018

Diesel (C10-C28)	1030	50.0	mg/kg	1000	ND	103	53-125			
Residual Range Organics (C28-C40)	1090	200	"	1000	10.9	108	47-133			
Surrogate: o-Terphenyl	49		"	50.0		98.6	59-131			

**Matrix Spike Dup (B8K1502-MSD1)**

**Source: Y811239-01**

Prepared: 11/15/2018 Analyzed: 11/15/2018

Diesel (C10-C28)	1050	50.0	mg/kg	1000	ND	105	53-125	1.77	20	
Residual Range Organics (C28-C40)	1130	200	"	1000	10.9	111	47-133	3.18	20	
Surrogate: o-Terphenyl	50		"	50.0		99.7	59-131			

Origins Laboratory, Inc.



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

Maggie Graham  
Project Number: COT0140  
Project: KMG - Salazar 5-20

## 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 B8K1506 - NO PREP</b>										
<b>Duplicate (B8K1506-DUP1)</b>		<b>Source: Y811246-01</b>			Prepared: 11/15/2018 Analyzed: 11/15/2018					
pH	7.86		pH Units		7.90			0.508	25	
<b>Batch B8K1507 - NO PREP</b>										
<b>Blank (B8K1507-BLK1)</b>		Prepared: 11/15/2018 Analyzed: 11/15/2018								
Specific Conductance (EC)	0.00300	0.00500	mmhos/cm							
<b>Duplicate (B8K1507-DUP1)</b>		<b>Source: Y811246-01</b>			Prepared: 11/15/2018 Analyzed: 11/15/2018					
Specific Conductance (EC)	0.0785	0.00500	mmhos/cm		0.0798			1.64	25	

Origins Laboratory, Inc.



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

Maggie Graham  
Project Number: COT0140  
Project: KMG - Salazar 5-20

### 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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