



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
NICHOLS 15C-31HZ TANK BATTERY
Location ID: 429183
SWSE – Sec6 – T2N - R65W
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 NICHOLS 15C-31HZ well. This form is being submitted to document the closure activities 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 removal, and documentation of field activities, as described below. Note that there are two partially buried produced water sumps present at this site. One of the sumps was decommissioned and one remains in place.

Site Assessment Activities

The field activities described herein were performed on October 9, 2018, with the purpose of assessing potential hydrocarbon impacts at the site related to the closure 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 excavation measured approximately 19 feet by 27 feet, at an approximate depth of between 4-5 feet below ground surface (bgs). Impacted soil and groundwater were not encountered within the excavation.

Confirmation soil samples were collected from the excavation in relation to the sump removed. The decommissioned sump samples were collected from four sidewalls at approximately 3 feet bgs. No base sample was collected due to a bentonite liner being present. Sidewall soil samples were field-screened using a calibrated photoionization detector. Based on the field screening, the east wall (E01@3') was submitted to Origins Laboratory in Denver, Colorado. 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 (E01@3') 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 sample and field screened samples 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 necessary. The produced water sump was removed and it will be not replaced. Following site assessment activities, the excavation area was backfilled and contoured to match pre-development conditions.

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 – NICHOLS 15C-31HZ - Facility Layout & Sample Locations
Table 1 – Soil Sample Analytical Results
Attachment A – Laboratory Analytical Report



Figure 1
Nichols 15C-31HZ
Facility Layout &
Sample Locations

Legend

- Soil Sample (10/9/2018)
- Crude Oil Tank
- Produced Water Sump
- Former Produced Water Sump
- Secondary Containment
- Excavation Extent (10/9/2018)

Sample Location

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

Bold values exceed COGCC Table
910-1 allowable concentrations

Site Characteristics

Legal Location: SWSE, Sec 6, T2N R65W
County: Weld
Land Use: Non-cropland
Topography: 3-9% Slopes
Run-Off Risk: Low
Soil Type: Valent sand

REVISED	BY	COMMENT
10/25/2018	BJB	Figure 1

Apex Companies, LLC
beau.bergstrom@apexcoos.com
M:\Projects\Anadarko\DJL_Basin\Remediation\Nichols_TB_37N-31HZ\Nichols_TB_37N-31HZ_Fig1_20181025.mxd

Access Road



E01@3'
B: <0.002 mg/kg
T: <0.002 mg/kg
E: <0.002 mg/kg
X: <0.002 mg/kg
TPH: <100 mg/kg

Access Road

For illustration purposes, spatial data in this diagram (e.g. sample points, excavation perimeter) is representative of field observations, and for illustration purposes may have been adjusted to align with aerial imagery and other pictured spatial data. Apex also collects spatial data using GPS units with real-time differential correction and sub-meter accuracy. Spatial data (e.g. ESRI shapefiles, Google Earth KMZ) provided separately from this diagram, may not be consistent with what is presented in this site diagram, due to adjustments made for illustrative purposes.

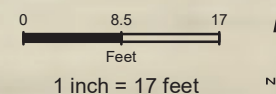


Table 1 - Soil Sample Analytical Results

Kerr-McGee Oil and Gas Onshore LP
 Location Name: Nichols 15C-31HZ
 Location ID: 429183
 County: Weld

			Organics (mg/kg [parts per million])								
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)
E01@3'	10/9/18	3'	<0.200	<25.0	<100	<0.002	<0.002	<0.002	<0.002	0.0455	8.13

Notes:

TPH Total Petroleum Hydrocarbons
 GRO Gasoline Range Organics (C6-C10)
 DRO Diesel Range Organics (C10-C28)
 RRO Residual Range Organics (C28-C36)
Indicates results exceeded COGCC Table 910-1 allowable concentration

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
 * Sample was collected below the designated root zone (>3' bgs)

Attachment A

Laboratory Analytical Report



January 15, 2019

Apex Companies, LLC

Maggie Graham

4150 Darley Avenue, Suite 1

Boulder CO 80305

Project Name - KMG - Nichols 15C-31HZ

Project Number - WO# COT0135

Attached are your analytical results for KMG - Nichols 15C-31HZ received by Origins Laboratory, Inc. October 09, 2018. This project is associated with Origins project number Y810145-03.

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: WO# COT0135

Project: KMG - Nichols 15C-31HZ

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
E01@3'	Y810145-03	Soil	October 9, 2018 12:59	10/09/2018 17:20

Per the email from Caitlin on 01/15/19, the project name was changed to Nichols 15C-31HZ.

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: WO# COT0135
Project: KMG - Nichols 15C-31HZ

ORIGINS

LABORATORY, INC

180145


www.originslaboratory.com

page 1 of 1

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

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: Nicholas 15C-31HZ
 Project Number: WO# COT0135 Greg Hamilton
 Samples Collected By: Kate MaDonnell
 Bill to Anadarko

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix				Analysis					Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	As Sample #	Other	GBTEX	DRO/RRO	EC, PH	HOLD SAR			
W0103'	10/19/18	1255	1	X						X				X			1 Same day	
N0103'		1257	1											X			2 TAT	
E0103'		1259	1										X	X			3	
S0103'		1301	1											X			4	
B60100.5'	✓	1310	1	✓										X			5	
																	6	
																	7	
																	8	
																	9	
																	10	
Relinquished By: 	Date: 10/19/18	Time: 1720															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 checked="" type="checkbox"/>	
Relinquished By:	Date:	Time:																

Date Results Needed Next day, 7am

570

Origins Laboratory, Inc.

Jeff Pellipini

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Apex Companies, LLC

4150 Darley Avenue, Suite 1

Boulder CO 80305

Maggie Graham

Project Number: WO# COT0135

Project: KMG - Nichols 15C-31HZ

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4810145

Client: Apex

Client Project ID: KMG-Nichols 15C-31HZ

Checklist Completed by: Joe Henderson

Shipped Via: HL

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

Date/time completed: 10/9/18 1734

Airbill # N/A

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

Cooler Number/Temperature: 1 5.2 °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"/>			
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"/>			pH
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)

10/9/18
Date/Time Reviewed

Origins Laboratory, Inc.

Joe Pellegrini

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

Maggie Graham
Project Number: WO# COT0135
Project: KMG - Nichols 15C-31HZ

E01@3'

10/9/2018 12:59:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y810145-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B8J0902	KDK	10/09/2018	10/09/2018	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 90.9 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8J0901	KDK	"	10/09/2018	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "
Surrogate: Toluene-d8 97.1 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.13		pH Units	1	B8J0903	OLAB	"	10/09/2018	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0455	0.00500	mmhos/cm	"	B8J0904	OLAB	"	"	
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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: WO# COT0135
Project: KMG - Nichols 15C-31HZ

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 B8J0901 - EPA 5030 (soil)										
Blank (B8J0901-BLK1)					Prepared: 10/09/2018 Analyzed: 10/09/2018					
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	65		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.1	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: WO# COT0135
Project: KMG - Nichols 15C-31HZ

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 B8J0901 - EPA 5030 (soil)										
LCS (B8J0901-BS1)					Prepared: 10/09/2018 Analyzed: 10/09/2018					
Benzene	0.111	0.002	mg/kg	0.100		111	77.1-124			
Toluene	0.107	0.002	"	0.100		107	74.5-128			
Ethylbenzene	0.108	0.002	"	0.100		108	66.4-127			
m,p-Xylene	0.209	0.004	"	0.200		105	76.6-124			
o-Xylene	0.099	0.002	"	0.100		98.6	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		95.5	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.4	70-130			

Origins Laboratory, Inc.



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4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: WO# COT0135
Project: KMG - Nichols 15C-31HZ

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 B8J0901 - EPA 5030 (soil)

Matrix Spike (B8J0901-MS1)		Source: Y810138-01			Prepared: 10/09/2018 Analyzed: 10/09/2018					
Benzene	0.103	0.002	mg/kg	0.100	ND	103	71.8-126			
Toluene	0.099	0.002	"	0.100	ND	98.9	65.1-130			
Ethylbenzene	0.100	0.002	"	0.100	ND	99.9	62.2-130			
m,p-Xylene	0.194	0.004	"	0.200	ND	97.1	46.5-137			
o-Xylene	0.093	0.002	"	0.100	ND	92.9	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.4	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.5	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: WO# COT0135
Project: KMG - Nichols 15C-31HZ

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 B8J0901 - EPA 5030 (soil)

Matrix Spike Dup (B8J0901-MSD1)		Source: Y810138-01			Prepared: 10/09/2018 Analyzed: 10/09/2018					
Benzene	0.099	0.002	mg/kg	0.100	ND	99.2	71.8-126	3.47	11.3	
Toluene	0.094	0.002	"	0.100	ND	93.7	65.1-130	5.36	15.4	
Ethylbenzene	0.091	0.002	"	0.100	ND	91.2	62.2-130	9.08	19.6	
m,p-Xylene	0.179	0.004	"	0.200	ND	89.4	46.5-137	8.25	19.2	
o-Xylene	0.086	0.002	"	0.100	ND	85.8	54.2-134	7.90	17.9	
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

Origins Laboratory, Inc.



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4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: WO# COT0135
Project: KMG - Nichols 15C-31HZ

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 B8J0902 - EPA 3580

Blank (B8J0902-BLK1)

Prepared: 10/09/2018 Analyzed: 10/09/2018

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	37		"	50.0		74.9	59-131			

LCS (B8J0902-BS1)

Prepared: 10/09/2018 Analyzed: 10/09/2018

Diesel (C10-C28)	1040	50.0	mg/kg	1000		104	64-121			
Residual Range Organics (C28-C40)	901	200	"	1000		90.1	58-124			
Surrogate: o-Terphenyl	51		"	50.0		103	59-131			

Matrix Spike (B8J0902-MS1)

Source: Y810138-01

Prepared: 10/09/2018 Analyzed: 10/09/2018

Diesel (C10-C28)	1140	50.0	mg/kg	1000	ND	114	53-125			
Residual Range Organics (C28-C40)	982	200	"	1000	14.3	96.8	47-133			
Surrogate: o-Terphenyl	55		"	50.0		111	59-131			

Matrix Spike Dup (B8J0902-MSD1)

Source: Y810138-01

Prepared: 10/09/2018 Analyzed: 10/09/2018

Diesel (C10-C28)	1030	50.0	mg/kg	1000	ND	103	53-125	9.46	20	
Residual Range Organics (C28-C40)	917	200	"	1000	14.3	90.2	47-133	7.02	20	
Surrogate: o-Terphenyl	51		"	50.0		101	59-131			

Origins Laboratory, Inc.



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

Maggie Graham
Project Number: WO# COT0135
Project: KMG - Nichols 15C-31HZ

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 B8J0903 - NO PREP										
Duplicate (B8J0903-DUP1)	Source: Y810138-01				Prepared: 10/09/2018 Analyzed: 10/09/2018					
pH	8.10		pH Units		8.26			1.96	25	
Batch B8J0904 - NO PREP										
Blank (B8J0904-BLK1)					Prepared: 10/09/2018 Analyzed: 10/09/2018					
Specific Conductance (EC)	0.00180	0.00500	mmhos/cm							
Duplicate (B8J0904-DUP1)	Source: Y810138-01				Prepared: 10/09/2018 Analyzed: 10/09/2018					
Specific Conductance (EC)	0.0140	0.00500	mmhos/cm		0.0126			10.5	25	

Origins Laboratory, Inc.



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

Maggie Graham
Project Number: WO# COT0135
Project: KMG - Nichols 15C-31HZ

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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