

November 29, 2018

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

**RE: Sump Closure Report  
Paul Jacobucci G.U. True #1  
API # 05-123-11376  
Location ID # 319504  
Remediation # 12132  
NESE Sec 30-T1N-R67W  
Weld County, Colorado**

Dear Mr. Hamilton:

LT Environmental, Inc. (LTE) was contracted by Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) to conduct environmental oversight activities at the above-referenced site. The oversight activities included documenting field activities, collecting soil samples, and reviewing laboratory analytical results.

The objective of the soil sampling was to determine if petroleum hydrocarbon impact to subsurface soil is present as a result of operating a produced water sump at the site. The soil sampling activities, laboratory analytical results, and conclusions are summarized below. The general site layout, soil sample location, and sump excavation dimensions are depicted on the Excavation Site Map provided as Figure 1.

On June 25, 2018, following removal of the produced water sump, soil samples were collected from the sidewalls and base of the excavation. The soil samples were field-screened for volatile organic compounds using a photoionization detector (PID). Soil staining, odor, and/or elevated headspace readings were not observed or identified through PID screening; the highest PID reading recorded was 0.3 parts per million. Based on field screening results, the excavation base soil sample (B01@5.5') was submitted for laboratory analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) and total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) by United States Environmental Protection Agency (USEPA) Method 8260C, TPH-diesel range organics (DRO) and oil range organics (ORO) by USEPA Method 8015C, pH by USEPA Method 9045D, and specific conductance (EC) by USEPA Method 9050A. Laboratory analytical results for soil sample B01@5.5' indicated that BTEX, TPH, pH, and EC concentrations and levels were in full compliance with Colorado Oil and Gas Conservation Commission Table



910-1 allowable levels. The soil sample analytical results are summarized in Table 1, and the laboratory analytical report is attached.

The sump excavation extent measured approximately 11 feet north to south by 13 feet east to west to an approximate depth of 5.5 feet below ground surface. Groundwater and impacted soil were not encountered in the excavation. A liner was not present beneath the sump at this site. The produced water sump at this facility has been permanently removed. The excavation area was backfilled and contoured to match pre-existing site conditions.

LTE appreciates the opportunity to provide environmental services to Kerr-McGee. Please contact LTE at (303) 433-9788 if you have any questions regarding this Sump Closure Report or if you require additional information.

Sincerely,

LT ENVIRONMENTAL, INC.

A handwritten signature in blue ink that reads "Kayla White".

Kayla White, EI  
Staff Environmental Engineer

A handwritten signature in blue ink that reads "Brian Sulzberger".

Brian Sulzberger, P.E., P.G.  
Senior Engineer

Attachments:

- Figure 1 Excavation Site Map
- Table 1 Soil Sample Analytical Results
- Attachment 1 Laboratory Analytical Reports





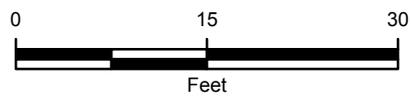
## ATTACHMENTS



**LEGEND**

IMAGE COURTESY OF GOOGLE EARTH 2018

- SOIL SAMPLE
- EXCAVATION EXTENT
- FORMER BERM
- AST: ABOVEGROUND STORAGE TANK



**FIGURE 1**  
**EXCAVATION SITE MAP**  
 PAUL JACOBUCCI G.U. TRUE #1  
 NESE SEC 30-T1N-R67W  
 WELD COUNTY, COLORADO  
 KERR-MCGEE OIL & GAS ONSHORE LP



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**PAUL JACOBUCCI G.U. TRUE #1**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE LP**

Soil Sample ID	Depth (bgs)	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	DRO (mg/kg)	GRO (mg/kg)	ORO (mg/kg)	pH (su)	Specific Conductance (mmhos/cm)
B01@5.5'	5.5'	06/25/2018	<0.002	<0.002	<0.002	<0.002	<25.0	<0.200	<100	8.10	0.157
<b>COGCC Allowable Levels</b>			<b>0.17</b>	<b>85</b>	<b>100</b>	<b>175</b>	<b>500*</b>	<b>500*</b>	<b>500*</b>	<b>6-9</b>	<b>4</b>

Notes: bgs - below ground surface  
COGCC - Colorado Oil and Gas Conservation Commission  
DRO - diesel range organics  
GRO - gasoline range organics  
mg/kg - milligrams per kilogram  
mmhos/cm - millimhos per centimeter

NA - not analyzed/not available  
ORO - oil range organics  
su - standard units  
\* - Standard applies to combined DRO-GRO-ORO  
< - less than laboratory reporting limit  
Bold indicates result exceeds allowable level





October 29, 2018

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada CO 80003

**Project Name - KMG - Paul Jacobucci G.U. True #1**      **Project Number - 014218134**

Attached are your analytical results for KMG - Paul Jacobucci G.U. True #1 received by Origins Laboratory, Inc. June 25, 2018. This project is associated with Origins project number Y806362-01.

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

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014218134  
Project: KMG - Paul Jacobucci G.U. True #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@5.5'	Y806362-01	Soil	June 25, 2018 11:19	06/25/2018 13:15

Per the email from Mike on 10/29/2018, the project name was changed to Paul Jacobucci G.U. True #1.

Origins Laboratory, Inc.



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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

Brian Sulzberger  
 Project Number: 014218134  
 Project: KMG - Paul Jacobucci G.U. True #1

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: VR06362

Client: LTE

Client Project ID: KMG - Jacobucci Paul GU True #1

Checklist Completed by: JG

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

Date/time completed: 6/25/2018

Airbill #: N/A

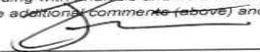
Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_ (Describe)

Cooler Number/Temperature: 1 / 13.9 °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 <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		<i>Same Day</i>
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"/>		
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? <b>if yes, contact client and note in narrative.</b>			<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)

6/25/18  
 Date/Time Reviewed

Origins Laboratory, Inc.



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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

Brian Sulzberger  
 Project Number: 014218134  
 Project: KMG - Paul Jacobucci G.U. True #1

**B01@5.5'**

**6/25/2018 11:19:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y806362-01 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B8F2505	ZZZ	06/25/2018	06/26/2018	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 76.1 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8F2504	ZZZ	06/25/2018	06/25/2018	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 102 % 70-130 " " "  
 Surrogate: Toluene-d8 98.6 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 99.6 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	8.10		pH Units	1	B8F2506	OLAB	06/25/2018	06/25/2018	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.157		mmhos/cm	"	B8F2507	OLAB	06/25/2018	"	
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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

Brian Sulzberger  
 Project Number: 014218134  
 Project: KMG - Paul Jacobucci G.U. True #1

**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 B8F2504 - EPA 5030 (soil)**

**Blank (B8F2504-BLK1)**

Prepared: 06/25/2018 Analyzed: 06/25/2018

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		98.8	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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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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**Batch B8F2504 - EPA 5030 (soil)**

**LCS (B8F2504-BS1)**

Prepared: 06/25/2018 Analyzed: 06/25/2018

Benzene	0.093	0.002	mg/kg	0.100		92.8	77.1-124			
Toluene	0.091	0.002	"	0.100		91.2	74.5-128			
Ethylbenzene	0.091	0.002	"	0.100		90.8	66.4-127			
m,p-Xylene	0.185	0.004	"	0.200		92.6	76.6-124			
o-Xylene	0.102	0.002	"	0.100		102	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	58		ug/kg	62.5		93.5	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

Origins Laboratory, Inc.



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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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Batch B8F2504 - EPA 5030 (soil)

Matrix Spike (B8F2504-MS1)	Source: Y806362-01			Prepared: 06/25/2018 Analyzed: 06/25/2018						
Benzene	0.089	0.002	mg/kg	0.100	ND	88.6	71.8-126			
Toluene	0.086	0.002	"	0.100	ND	85.8	65.1-130			
Ethylbenzene	0.085	0.002	"	0.100	ND	85.1	62.2-130			
m,p-Xylene	0.172	0.004	"	0.200	ND	86.0	46.5-137			
o-Xylene	0.096	0.002	"	0.100	ND	95.7	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		96.2	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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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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**Batch B8F2504 - EPA 5030 (soil)**

<b>Matrix Spike Dup (B8F2504-MSD1)</b>	<b>Source: Y806362-01</b>			<b>Prepared: 06/25/2018 Analyzed: 06/25/2018</b>						
Benzene	0.096	0.002	mg/kg	0.100	ND	95.8	71.8-126	7.83	11.3	
Toluene	0.092	0.002	"	0.100	ND	92.0	65.1-130	7.00	15.4	
Ethylbenzene	0.090	0.002	"	0.100	ND	90.5	62.2-130	6.08	19.6	
m,p-Xylene	0.184	0.004	"	0.200	ND	91.9	46.5-137	6.69	19.2	
o-Xylene	0.101	0.002	"	0.100	ND	101	54.2-134	5.82	17.9	
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		96.6	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.7	70-130			

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 4600 West 60th Avenue  
 Arvada CO 80003

Brian Sulzberger  
 Project Number: 014218134  
 Project: KMG - Paul Jacobucci G.U. True #1

**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 B8F2505 - EPA 3550B**

**Blank (B8F2505-BLK1)**

Prepared: 06/25/2018 Analyzed: 06/25/2018

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	44		"	50.0		87.4	59-131			

**Blank (B8F2505-BLK2)**

Prepared: 06/25/2018 Analyzed: 06/25/2018

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	38		"	50.0		75.0	59-131			

**LCS (B8F2505-BS1)**

Prepared: 06/25/2018 Analyzed: 06/25/2018

Diesel (C10-C28)	977	50.0	mg/kg	1000		97.7	64-121			
Residual Range Organics (C28-C40)	948	200	"	1000		94.8	58-124			
Surrogate: o-Terphenyl	48		"	50.0		96.0	59-131			

**LCS (B8F2505-BS2)**

Prepared: 06/25/2018 Analyzed: 06/25/2018

Diesel (C10-C28)	960	50.0	mg/kg	1000		96.0	64-121			
Residual Range Organics (C28-C40)	906	200	"	1000		90.6	58-124			
Surrogate: o-Terphenyl	48		"	50.0		96.0	59-131			

**Matrix Spike (B8F2505-MS1)**

**Source: Y806290-03**

Prepared: 06/25/2018 Analyzed: 06/25/2018

Diesel (C10-C28)	942	50.0	mg/kg	1000	36.0	90.6	53-125			
Residual Range Organics (C28-C40)	892	200	"	1000	176	71.6	47-133			

Origins Laboratory, Inc.



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 Arvada CO 80003

Brian Sulzberger  
 Project Number: 014218134  
 Project: KMG - Paul Jacobucci G.U. True #1

**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
<b>Batch B8F2505 - EPA 3550B</b>										
<b>Matrix Spike (B8F2505-MS1)</b>		<b>Source: Y806290-03</b>			Prepared: 06/25/2018 Analyzed: 06/25/2018					
Surrogate: o-Terphenyl	47		mg/kg	50.0		93.5	59-131			
<b>Matrix Spike (B8F2505-MS2)</b>		<b>Source: Y806362-01</b>			Prepared: 06/25/2018 Analyzed: 06/26/2018					
Diesel (C10-C28)	974	50.0	mg/kg	1000	ND	97.4	53-125			
Residual Range Organics (C28-C40)	927	200	"	1000	10.8	91.7	47-133			
Surrogate: o-Terphenyl	46		"	50.0		92.9	59-131			
<b>Matrix Spike Dup (B8F2505-MSD1)</b>		<b>Source: Y806290-03</b>			Prepared: 06/25/2018 Analyzed: 06/25/2018					
Diesel (C10-C28)	864	50.0	mg/kg	1000	36.0	82.8	53-125	9.00	20	
Residual Range Organics (C28-C40)	786	200	"	1000	176	61.0	47-133	16.0	20	
Surrogate: o-Terphenyl	41		"	50.0		82.3	59-131			
<b>Matrix Spike Dup (B8F2505-MSD2)</b>		<b>Source: Y806362-01</b>			Prepared: 06/25/2018 Analyzed: 06/26/2018					
Diesel (C10-C28)	932	50.0	mg/kg	1000	ND	93.2	53-125	4.42	20	
Residual Range Organics (C28-C40)	897	200	"	1000	10.8	88.6	47-133	3.35	20	
Surrogate: o-Terphenyl	46		"	50.0		91.9	59-131			

Origins Laboratory, Inc.



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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

Brian Sulzberger  
 Project Number: 014218134  
 Project: KMG - Paul Jacobucci G.U. True #1

**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 B8F2506 - NO PREP</b>										
<b>Duplicate (B8F2506-DUP1)</b>		<b>Source: Y806362-01</b>			Prepared: 06/25/2018 Analyzed: 06/25/2018					
pH	7.38		pH Units		8.10			9.30	25	
<b>Batch B8F2507 - NO PREP</b>										
<b>Blank (B8F2507-BLK1)</b>		Prepared: 06/25/2018 Analyzed: 06/25/2018								
Specific Conductance (EC)	0.00380		mmhos/cm							
<b>Duplicate (B8F2507-DUP1)</b>		<b>Source: Y806362-01</b>			Prepared: 06/25/2018 Analyzed: 06/25/2018					
Specific Conductance (EC)	0.133		mmhos/cm		0.157			16.6	25	

Origins Laboratory, Inc.



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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014218134  
Project: KMG - Paul Jacobucci G.U. True #1

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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.

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President