



March 29, 2018

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

**Project Name - KMG - Triple L Farms #1**

**Project Number - [none]**

Attached are your analytical results for KMG - Triple L Farms #1 received by Origins Laboratory, Inc. March 28, 2018. This project is associated with Origins project number Y803499-01.

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

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Triple L Farms #1

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@6'	Y803499-01	Soil	March 28, 2018 14:46	03/28/2018 18:00

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Triple L Farms #1

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page 1 of 1

7403499

ORIGINS LABORATORY, INC

Client: APC Project Manager/Send Report To: Robert Cornez

Address: Email Address: Cornez@tasman-geo.com

Telephone Number: Project Name/Number: Triple L Farms #1

Samples Collected By: BDL

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative	Matrix	Analysis/Method	Sample Instructions
B01S6'	3-28-10	1446	2	X	Soil	X	1
N01S5'		1448	1			X	2
E010S'		1450	1			X	3
S01S6'		1452	1			X	4
W01S5'		1454	1			X	5
B001S3"		1456	1			X	6
							7
							8
							9
							10
Relinquished By: [Signature]	Date: 3-28-10	Time: 1800		Received By: [Signature]	Date: 3/28/10	Time: 1900	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: [Signature]	Date: 3-28-10	Time: 1800		Received By: [Signature]	Date: 3/28/10	Time: 1900	

Comments:

Perla Basile Mandat

5.6

Origins Laboratory, Inc.

Jefe Pellegrini

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Bob Cornez  
Project Number: [none]  
Project: KMG - Triple L Farms #1

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: Y803499

Client: JG Tasman

Client Project ID: KMG - Triple L Farms #1

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 3/28/18

Airbill #: N/A

Matrix(s) Received: (Check all that apply): X Soil/Solid

Water Other:

(Describe)

Cooler Number/Temperature: 1 / 56 °C

/ °C

/ °C

/ °C

Thermometer ID: T603

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"/>			
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? 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

Origins Laboratory, Inc.

*Jefe Pellegrini*

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Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Triple L Farms #1

**B01@6'**  
**3/28/2018 2:46:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y803499-01 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B8C2805	03/28/2018	03/29/2018	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 85.8 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	0.390	0.200	mg/kg	1	B8C2804	"	03/28/2018	
Benzene	0.011	0.002	"	"	"	"	"	
Toluene	0.039	0.002	"	"	"	"	"	
Ethylbenzene	0.007	0.002	"	"	"	"	"	
Xylenes, total	0.060	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "  
Surrogate: Toluene-d8 97.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 97.4 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	8.46		pH Units	1	B8C2808	03/28/2018	03/29/2018	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.141		mmhos/cm	"	B8C2809	"	03/29/2018	
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Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Triple L Farms #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
<b>Batch B8C2804 - EPA 5030 (soil)</b>										
<b>Blank (B8C2804-BLK1)</b>					Prepared: 03/28/2018 Analyzed: 03/28/2018					
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	57		ug/kg	62.5		91.4	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.2	70-130			

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**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B8C2804 - EPA 5030 (soil)</b>										
<b>Blank (B8C2804-BLK2)</b>					Prepared: 03/28/2018 Analyzed: 03/28/2018					
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	58		ug/kg	62.5		92.3	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.8	70-130			

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**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B8C2804 - EPA 5030 (soil)</b>										
<b>LCS (B8C2804-BS1)</b>					Prepared: 03/28/2018 Analyzed: 03/28/2018					
Benzene	0.107	0.002	mg/kg	0.100		107	77.1-124			
Toluene	0.102	0.002	"	0.100		102	74.5-128			
Ethylbenzene	0.095	0.002	"	0.100		94.7	66.4-127			
m,p-Xylene	0.180	0.004	"	0.200		90.1	76.6-124			
o-Xylene	0.087	0.002	"	0.100		87.2	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	53		ug/kg	62.5		85.2	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.0	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
<b>Batch B8C2804 - EPA 5030 (soil)</b>										
<b>LCS (B8C2804-BS2)</b>					Prepared: 03/28/2018 Analyzed: 03/28/2018					
Benzene	0.116	0.002	mg/kg	0.100		116	77.1-124			
Toluene	0.112	0.002	"	0.100		112	74.5-128			
Ethylbenzene	0.102	0.002	"	0.100		102	66.4-127			
m,p-Xylene	0.204	0.004	"	0.200		102	76.6-124			
o-Xylene	0.095	0.002	"	0.100		95.4	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	52		ug/kg	62.5		82.7	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.3	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 B8C2804 - EPA 5030 (soil)**

Matrix Spike (B8C2804-MS1)		Source: Y803478-01			Prepared: 03/28/2018 Analyzed: 03/28/2018					
Benzene	0.102	0.002	mg/kg	0.100	ND	102	71.8-126			
Toluene	0.089	0.002	"	0.100	0.0007	88.8	65.1-130			
Ethylbenzene	0.094	0.002	"	0.100	0.002	92.7	62.2-130			
m,p-Xylene	0.181	0.004	"	0.200	0.007	86.7	46.5-137			
o-Xylene	0.099	0.002	"	0.100	0.009	90.7	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	57		"	62.5		91.5	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	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 B8C2804 - EPA 5030 (soil)**

Matrix Spike (B8C2804-MS2)		Source: Y803383-01			Prepared: 03/28/2018 Analyzed: 03/28/2018					
Benzene	0.114	0.002	mg/kg	0.100	ND	114	71.8-126			
Toluene	0.113	0.002	"	0.100	ND	113	65.1-130			
Ethylbenzene	0.097	0.002	"	0.100	ND	96.5	62.2-130			
m,p-Xylene	0.190	0.004	"	0.200	ND	95.2	46.5-137			
o-Xylene	0.095	0.002	"	0.100	ND	95.1	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	52		ug/kg	62.5		83.1	70-130			
Surrogate: Toluene-d8	68		"	62.5		108	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 B8C2804 - EPA 5030 (soil)**

Matrix Spike Dup (B8C2804-MSD1)		Source: Y803478-01			Prepared: 03/28/2018 Analyzed: 03/28/2018					
Benzene	0.103	0.002	mg/kg	0.100	ND	103	71.8-126	0.254	11.3	
Toluene	0.092	0.002	"	0.100	0.0007	92.4	65.1-130	4.00	15.4	
Ethylbenzene	0.090	0.002	"	0.100	0.002	87.9	62.2-130	5.22	19.6	
m,p-Xylene	0.172	0.004	"	0.200	0.007	82.2	46.5-137	5.16	19.2	
o-Xylene	0.089	0.002	"	0.100	0.009	80.3	54.2-134	11.0	17.9	
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		98.6	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.1	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	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 B8C2804 - EPA 5030 (soil)**

Matrix Spike Dup (B8C2804-MSD2)		Source: Y803383-01			Prepared: 03/28/2018 Analyzed: 03/28/2018					
Benzene	0.118	0.002	mg/kg	0.100	ND	118	71.8-126	3.85	11.3	
Toluene	0.116	0.002	"	0.100	ND	116	65.1-130	2.55	15.4	
Ethylbenzene	0.101	0.002	"	0.100	ND	101	62.2-130	4.87	19.6	
m,p-Xylene	0.190	0.004	"	0.200	ND	95.2	46.5-137	0.0315	19.2	
o-Xylene	0.095	0.002	"	0.100	ND	95.1	54.2-134	0.00	17.9	
Surrogate: 1,2-Dichloroethane-d4	48		ug/kg	62.5		77.0	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		90.9	70-130			

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Bob Cornez  
Project Number: [none]  
Project: KMG - Triple L Farms #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 B8C2805 - EPA 3550B

#### Blank (B8C2805-BLK1)

Prepared: 03/28/2018 Analyzed: 03/28/2018

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	45		"	50.0		90.8	59-131			

#### Blank (B8C2805-BLK2)

Prepared: 03/28/2018 Analyzed: 03/28/2018

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	46		"	50.0		91.1	59-131			

#### LCS (B8C2805-BS1)

Prepared: 03/28/2018 Analyzed: 03/28/2018

Diesel (C10-C28)	802	50.0	mg/kg	1000		80.2	64-121			
Residual Range Organics (C28-C40)	750	200	"	1000		75.0	58-124			
Surrogate: o-Terphenyl	47		"	50.0		94.5	59-131			

#### LCS (B8C2805-BS2)

Prepared: 03/28/2018 Analyzed: 03/28/2018

Diesel (C10-C28)	808	50.0	mg/kg	1000		80.8	64-121			
Residual Range Organics (C28-C40)	749	200	"	1000		74.9	58-124			
Surrogate: o-Terphenyl	46		"	50.0		92.6	59-131			

#### Matrix Spike (B8C2805-MS1)

Source: Y803478-01

Prepared: 03/28/2018 Analyzed: 03/28/2018

Diesel (C10-C28)	734	50.0	mg/kg	1000	118	61.6	53-125			
Residual Range Organics (C28-C40)	658	200	"	1000	84.0	57.4	47-133			

Origins Laboratory, Inc.



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Bob Cornez  
Project Number: [none]  
Project: KMG - Triple L Farms #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 B8C2805 - EPA 3550B</b>										
<b>Matrix Spike (B8C2805-MS1)</b>		<b>Source: Y803478-01</b>			Prepared: 03/28/2018 Analyzed: 03/28/2018					
Surrogate: o-Terphenyl	40		mg/kg	50.0		79.4	59-131			
<b>Matrix Spike (B8C2805-MS2)</b>		<b>Source: Y803383-01</b>			Prepared: 03/28/2018 Analyzed: 03/28/2018					
Diesel (C10-C28)	892	50.0	mg/kg	1000	ND	89.2	53-125			
Residual Range Organics (C28-C40)	850	200	"	1000	20.0	83.0	47-133			
Surrogate: o-Terphenyl	51		"	50.0		101	59-131			
<b>Matrix Spike Dup (B8C2805-MSD1)</b>		<b>Source: Y803478-01</b>			Prepared: 03/28/2018 Analyzed: 03/28/2018					
Diesel (C10-C28)	942	50.0	mg/kg	1000	118	82.4	53-125	28.9	20	QR-02
Residual Range Organics (C28-C40)	853	200	"	1000	84.0	76.9	47-133	29.0	20	QR-02
Surrogate: o-Terphenyl	49		"	50.0		98.8	59-131			
<b>Matrix Spike Dup (B8C2805-MSD2)</b>		<b>Source: Y803383-01</b>			Prepared: 03/28/2018 Analyzed: 03/28/2018					
Diesel (C10-C28)	853	50.0	mg/kg	1000	ND	85.3	53-125	4.49	20	
Residual Range Organics (C28-C40)	811	200	"	1000	20.0	79.1	47-133	4.83	20	
Surrogate: o-Terphenyl	47		"	50.0		94.9	59-131			

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Triple L Farms #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 B8C2808 - NO PREP</b>										
<b>Duplicate (B8C2808-DUP1)</b>		<b>Source: Y803374-01</b>			Prepared: 03/28/2018 Analyzed: 03/29/2018					
pH	7.22		pH Units		7.81			7.85	25	
<b>Batch B8C2809 - NO PREP</b>										
<b>Blank (B8C2809-BLK1)</b>		Prepared: 03/28/2018 Analyzed: 03/29/2018								
Specific Conductance (EC)	0.00240		mmhos/cm							
<b>Duplicate (B8C2809-DUP1)</b>		<b>Source: Y803374-01</b>			Prepared: 03/28/2018 Analyzed: 03/29/2018					
Specific Conductance (EC)	0.0242		mmhos/cm		0.0260			7.17	25	

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Bob Cornez

Project Number: [none]

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### Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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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