

February 25, 2015

LT Environmental, Inc.

Justin Solomon

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Powers 3N-27Hz

Project Number - 014211290-195

Attached are your analytical results for KMG - Powers 3N-27Hz received by Origins Laboratory, Inc. February 17, 2015. This project is associated with Origins project number X502199-01.

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



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

Justin Solomon  
Project Number: 014211290-195  
Project: KMG - Powers 3N-27Hz

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Off S	X502199-01	Soil	February 13, 2015 14:15	02/17/2015 16:45
Off E	X502199-02	Soil	February 13, 2015 14:20	02/17/2015 16:45
Off N	X502199-03	Soil	February 13, 2015 14:25	02/17/2015 16:45
Off W	X502199-04	Soil	February 13, 2015 14:30	02/17/2015 16:45
Off Comp	X502199-05	Soil	February 13, 2015 14:35	02/17/2015 16:45
Pad Comp	X502199-06	Soil	February 13, 2015 14:40	02/17/2015 16:45

Origins Laboratory, Inc.



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Noelle Doyle Mathis, President



LT Environmental, Inc.  
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 Arvada CO 80003

Justin Solomon  
 Project Number: 014211290-195  
 Project: KMG - Powers 3N-27Hz

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: XS02199

Client: LTE

Client Project ID: Power 3N-27Hz

Checklist Completed by: Jeff Smith

Shipped Via: HD

Date/time completed: 2/18/15

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

Airbill #: NA

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

Cooler Number/Temperature: 1 / 10.3 °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C (Describe)

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"/>			
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"/>	<u>2/18/15</u> <u>PH</u>		
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 HNO3, HCL, H2SO4) / ( pH >10 for samples preserved with NaAsO2+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.

[Signature]  
 Reviewed by (Project Manager)

02-18-15  
 Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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4600 West 60th Avenue  
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Justin Solomon  
Project Number: 014211290-195  
Project: KMG - Powers 3N-27Hz

Off S

2/13/2015 2:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC  
X502199-01 (Soil)

**SW846 3050B/6010C Arsenic Solid**

Arsenic	1.68	3.10	mg/kg dry	1	1459053	02/20/2015	02/20/2015	J
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Origins Laboratory, Inc.



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Project Number: 014211290-195  
Project: KMG - Powers 3N-27Hz

Off E

2/13/2015 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC  
X502199-02 (Soil)

**SW846 3050B/6010C Arsenic Solid**

Arsenic	0.544	3.05	mg/kg dry	1	1459053	02/20/2015	02/20/2015	J
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Origins Laboratory, Inc.



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Arvada CO 80003

Justin Solomon  
Project Number: 014211290-195  
Project: KMG - Powers 3N-27Hz

Off N  
2/13/2015 2:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC  
X502199-03 (Soil)

**SW846 3050B/6010C Arsenic Solid**

Arsenic	1.16	2.79	mg/kg dry	1	1459053	02/20/2015	02/20/2015	J
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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Justin Solomon  
Project Number: 014211290-195  
Project: KMG - Powers 3N-27Hz

Off W  
2/13/2015 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC  
X502199-04 (Soil)

**SW846 3050B/6010C Arsenic Solid**

Arsenic	1.39	2.97	mg/kg dry	1	1459053	02/20/2015	02/20/2015	J
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Off Comp  
 2/13/2015 2:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
 X502199-05 (Soil)

**pH in Soil by EPA 9045D**

pH	7.80		pH Units	1	5B18008	02/18/2015	02/18/2015	
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**Sodium Adsorption Ratio**

Sodium Adsorption Ratio	0.121		none	1	1459665		02/24/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.0158		mmhos/cm	1	5B18007	02/18/2015	02/18/2015	
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**SW846 3050B/6010C Arsenic Solid**

Arsenic	1.18	3.05	mg/kg dry	1	1459053	02/20/2015	02/20/2015	J
Barium	29.9	0.508	"	"	"	"	"	
Calcium	700	25.4	"	"	"	"	"	
Magnesium	464	30.5	"	"	"	"	"	
Sodium	16.8	25.4	"	"	"	"	"	J

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**Pad Comp**  
**2/13/2015 2:40:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X502199-06 (Soil)**

**BTEX by EPA 8260C**

Benzene	ND	0.002	mg/kg	1	5B18006	02/18/2015	02/19/2015	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	
Surrogate: Toluene-d8	115 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.5 %	70-130			"	"	"	

**pH in Soil by EPA 9045D**

pH	8.16		pH Units	1	5B18008	02/18/2015	02/18/2015	
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**Sodium Adsorption Ratio**

Sodium Adsorption Ratio	1.07		none	1	1459665		02/24/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.355		mmhos/cm	1	5B18007	02/18/2015	02/18/2015	
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**SW846 3050B/6010C Arsenic Solid**

Arsenic	5.25	3.20	mg/kg dry	1	1459053	02/20/2015	02/20/2015	
Barium	2360	2.67	"	5	"	"	02/23/2015	
Calcium	20400	26.7	"	1	"	"	02/20/2015	

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Pad Comp  
 2/13/2015 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC  
 X502199-06 (Soil)

**SW846 3050B/6010C Arsenic Solid**

Magnesium	1880	32.0	mg/kg dry	1	1459053	02/20/2015	02/20/2015	
Sodium	597	26.7	"	"	"	"	"	

**TCLP Metals by SW846 3010A/6010C**

Arsenic	ND	0.300	mg/L	1	1459645	02/24/2015	02/24/2015	U
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**TPH-Carbon Chain by EPA Method 8015C**

Gasoline (C6-C10)	ND	50	mg/kg	1	5B18005	02/18/2015	02/18/2015	
Diesel (C10-C28)	51	50	"	"	"	"	"	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	

<i>Surrogate: o-Terphenyl</i>	85.5 %	65-146			"	"	"	
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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 5B18006 - EPA 5030 (soil)

Blank (5B18006-BLK1)

Prepared: 02/18/2015 Analyzed: 02/19/2015

Benzene	ND	0.002	mg/kg							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>60</i>		<i>ug/kg</i>	<i>62.5</i>		<i>96.8</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>69</i>		<i>"</i>	<i>62.5</i>		<i>110</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>58</i>		<i>"</i>	<i>62.5</i>		<i>92.2</i>	<i>70-130</i>			

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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 5B18006 - EPA 5030 (soil)

**LCS (5B18006-BS1)**

Prepared: 02/18/2015 Analyzed: 02/19/2015

Benzene	0.098	0.002	mg/kg	0.100		97.5	77.1-124			
Toluene	0.104	0.002	"	0.100		104	74.5-128			
Ethylbenzene	0.087	0.002	"	0.100		86.8	66.4-127			
m,p-Xylene	0.179	0.004	"	0.200		89.4	76.6-124			
o-Xylene	0.086	0.002	"	0.100		85.7	76.6-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>62</i>		<i>ug/kg</i>	<i>62.5</i>		<i>98.4</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>69</i>		<i>"</i>	<i>62.5</i>		<i>111</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>63</i>		<i>"</i>	<i>62.5</i>		<i>100</i>	<i>70-130</i>			

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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 5B18006 - EPA 5030 (soil)

Matrix Spike (5B18006-MS1)	Source: X502194-06			Prepared: 02/18/2015 Analyzed: 02/19/2015						
Benzene	0.098	0.002	mg/kg	0.100	ND	97.5	71.8-126			
Toluene	0.106	0.002	"	0.100	ND	106	65.1-130			
Ethylbenzene	0.090	0.002	"	0.100	ND	90.0	62.2-130			
m,p-Xylene	0.180	0.004	"	0.200	ND	90.2	46.5-137			
o-Xylene	0.089	0.002	"	0.100	ND	88.9	54.2-134			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>62</i>		<i>ug/kg</i>	<i>62.5</i>		<i>99.1</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>69</i>		<i>"</i>	<i>62.5</i>		<i>110</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>59</i>		<i>"</i>	<i>62.5</i>		<i>93.7</i>	<i>70-130</i>			

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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 5B18006 - EPA 5030 (soil)

Matrix Spike Dup (5B18006-MSD1)	Source: X502194-06			Prepared: 02/18/2015 Analyzed: 02/19/2015						
Benzene	0.099	0.002	mg/kg	0.100	ND	98.6	71.8-126	1.12	11.3	
Toluene	0.109	0.002	"	0.100	ND	109	65.1-130	2.73	15.4	
Ethylbenzene	0.093	0.002	"	0.100	ND	93.3	62.2-130	3.64	19.6	
m,p-Xylene	0.184	0.004	"	0.200	ND	92.2	46.5-137	2.20	19.2	
o-Xylene	0.093	0.002	"	0.100	ND	93.1	54.2-134	4.57	17.9	
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.3	70-130			
Surrogate: Toluene-d8	71		"	62.5		114	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.6	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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**Extractable Petroleum Hydrocarbons by 8015M - 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 5B18005 - EPA 3580

**Blank (5B18005-BLK1)**

Prepared: 02/18/2015 Analyzed: 02/18/2015

Gasoline (C6-C10)	ND	50	mg/kg							
Diesel (C10-C28)	ND	50	"							
Residual Range Organics (C28-C36)	ND	200	"							

Surrogate: *o*-Terphenyl 61.2 " 50.0 122 65-146

**LCS (5B18005-BS1)**

Prepared: 02/18/2015 Analyzed: 02/18/2015

Gasoline (C6-C10)	920	50	mg/kg	1000		91.6	66.7-119			
Diesel (C10-C28)	990	50	"	1000		98.6	70.1-127			
Residual Range Organics (C28-C36)	1100	200	"	1000		107	54.5-139			

Surrogate: *o*-Terphenyl 53.3 " 50.0 107 65-146

**Matrix Spike (5B18005-MS1)**

Source: X502194-06

Prepared: 02/18/2015 Analyzed: 02/18/2015

Gasoline (C6-C10)	930	50	mg/kg	1000	25	90.7	56.4-132			
Diesel (C10-C28)	950	50	"	1000	23	92.4	57.4-138			
Residual Range Organics (C28-C36)	1100	200	"	1000	20	106	47.7-129			

Surrogate: *o*-Terphenyl 48.5 " 50.0 96.9 65-146

**Matrix Spike Dup (5B18005-MSD1)**

Source: X502194-06

Prepared: 02/18/2015 Analyzed: 02/18/2015

Gasoline (C6-C10)	920	50	mg/kg	1000	25	89.8	56.4-132	0.939	22	
Diesel (C10-C28)	980	50	"	1000	23	95.4	57.4-138	3.12	18.3	
Residual Range Organics (C28-C36)	1100	200	"	1000	20	106	47.7-129	0.136	30.1	

Surrogate: *o*-Terphenyl 48.5 " 50.0 97.0 65-146

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**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 5B18007 - NO PREP</b>										
<b>Blank (5B18007-BLK1)</b>					Prepared: 02/18/2015 Analyzed: 02/18/2015					
Specific Conductance (EC)	0.00240		mmhos/cm							
<b>Duplicate (5B18007-DUP1)</b>					Source: X502194-05 Prepared: 02/18/2015 Analyzed: 02/18/2015					
Specific Conductance (EC)	0.0976		mmhos/cm		0.0969			0.720	25	
<b>Batch 5B18008 - NO PREP</b>										
<b>Duplicate (5B18008-DUP1)</b>					Source: X502194-05 Prepared: 02/18/2015 Analyzed: 02/18/2015					
pH	8.25		pH Units		8.23			0.243	25	

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TCLP Metals by SW846 3010A/6010C - Quality Control  
 GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1459645 - SW846 3010A										
<b>MS (1203268363 S)</b>										
			Source: X502199-06			Prepared: 02/24/2015 Analyzed: 02/24/2015				
Arsenic	4.75	0.300	mg/L	5.00	<0.050	95	75-125			
<b>TB (1203268364-BLK)</b>										
						Prepared: 02/24/2015 Analyzed: 02/24/2015				
Arsenic	ND	0.300	mg/L				-			U
<b>BLANK (1203269785-BLK)</b>										
						Prepared: 02/24/2015 Analyzed: 02/24/2015				
Arsenic	ND	0.300	mg/L				-			U
<b>LCS (1203269786-BKS)</b>										
						Prepared: 02/24/2015 Analyzed: 02/24/2015				
Arsenic	4.72	0.300	mg/L	5.00		94.4	80-120			
<b>DUP (1203269787 D)</b>										
			Source: X502199-06			Prepared: 02/24/2015 Analyzed: 02/24/2015				
Arsenic	ND	0.300	mg/L		<0.050		0-20	NR	20	U

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.*

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

Justin Solomon  
Project Number: 014211290-195  
Project: KMG - Powers 3N-27Hz

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### Notes and Definitions

- U Result not detected above the detection limit
- J Greater than the detection limit but less than the reporting limit
- 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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Noelle Doyle Mathis, President