

December 21, 2015

LT Environmental, Inc.

John Cocroft

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Pogg 63N 67W/135ENE

Project Number - WO# 88938926

Attached are your analytical results for KMG - Pogg 63N 67W/135ENE received by Origins Laboratory, Inc. December 18, 2015. This project is associated with Origins project number X512297-01.

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

John Cocroft  
Project Number: WO# 88938926  
Project: KMG - Pogg 63N 67W/135ENE

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01 @ 1	X512297-01	Soil	December 18, 2015 14:50	12/18/2015 17:40
B02 @ 1	X512297-02	Soil	December 18, 2015 14:55	12/18/2015 17:40
B03 @ 1	X512297-03	Soil	December 18, 2015 15:00	12/18/2015 17:40
B04 @ 1	X512297-04	Soil	December 18, 2015 15:05	12/18/2015 17:40
B05 @ 1	X512297-05	Soil	December 18, 2015 15:10	12/18/2015 17:40

Origins Laboratory, Inc.



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X512217

page 1 of 1

**ORIGINS**  
 LABORATORY, INC

Client: LTE  
 Address: 4600 W 60th AVE  
ARVADA CO 80003  
 Telephone Number: 303 433 9788  
 Email Address: JCOGROFT@HENV.COM / see list

Project Manager: John Cocroft  
 Project Name: Pogg 63N67W/135ENE  
 Project Number:  
 Samples Collected By: Chad Tefft  
APC Contact Sam Larue  
APC WO# 88938926

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions		
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summ #	Other	GBTx	TSP	Vol		EC	PH
B01E1	12/18/15	1450	2	X				X				X	X	X	X	Hold SAR	1
B02E1	↓	1455	2	X				X				X	X	X	X	Hold SAR	2
B03E1	↓	1500	2	X				X				X	X	X	X	Hold SAR	3
B04E1	↓	1505	2	X				X				X	X	X	X	Hold SAR	4
B05E1	↓	1510	2	X				X				X	X	X	X	Hold SAR	5
B6-01	↓	1515	2	X				X				X	X	X	X	Hold SAR	6
																	7
																	8
																	9
																	10
Relinquished By: <u>ALZ</u>	Date: <u>12/18/15</u>	Time: <u>1740</u>		Received By: <u>JPL</u>	Date: <u>12/18/15</u>	Time: <u>1746</u>		Received By:	Date:	Time:	Turnaround Time: <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard						

Date Results Needed 12/21/15 by 0700  
 Temp Received: 1.9

Origins Laboratory, Inc.

*Jefe Pellegrini*

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Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: XS12297

Client: LTE

Client Project ID: Pogg 63N 67W

Checklist Completed by: Jeff Smith

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

Date/time completed: 12/18/12

Airbill #: NA

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

Cooler Number/Temperature: 1 / 19 °C / \_\_\_\_\_ °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"/>			
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)

12/18/12  
 Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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 Arvada CO 80003

John Cocroft  
 Project Number: WO# 88938926  
 Project: KMG - Pogg 63N 67W/135ENE

**B01 @ 1**  
**12/18/2015 2:50:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X512297-01 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	160	25	mg/kg	1	B5L1802	12/18/2015	12/18/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 96.2 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	46.2	5.00	mg/kg	25	B5L1803	12/18/2015	12/18/2015	
Benzene	ND	0.050	"	"	"	"	"	
Toluene	0.174	0.050	"	"	"	"	"	
Ethylbenzene	0.064	0.050	"	"	"	"	"	
Xylenes, total	1.22	0.050	"	"	"	"	"	

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

**pH in Soil by EPA 9045D**

pH	7.89		pH Units	1	B5L1804	"	12/18/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.0343		mmhos/cm	"	B5L1805	12/18/2015	12/18/2015	
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**B02 @ 1**  
**12/18/2015 2:55:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X512297-02 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	100	25	mg/kg	1	B5L1802	12/18/2015	12/18/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 91.1 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	8.68	5.00	mg/kg	25	B5L1803	12/18/2015	12/18/2015	
Benzene	ND	0.050	"	"	"	"	"	
Toluene	ND	0.050	"	"	"	"	"	
Ethylbenzene	ND	0.050	"	"	"	"	"	
Xylenes, total	ND	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 96.8 % 70-130 " " "

Surrogate: Toluene-d8 101 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.72		pH Units	1	B5L1804	"	12/18/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.0538		mmhos/cm	"	B5L1805	12/18/2015	12/18/2015	
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**B03 @ 1**  
**12/18/2015 3:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X512297-03 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	B5L1802	12/18/2015	12/18/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 79.4 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B5L1803	12/18/2015	12/18/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 101 % 70-130 " " "  
*Surrogate: Toluene-d8* 101 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 102 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	8.08		pH Units	1	B5L1804	"	12/18/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.0342		mmhos/cm	"	B5L1805	12/18/2015	12/18/2015	
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**B04 @ 1**  
**12/18/2015 3:05:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X512297-04 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	B5L1802	12/18/2015	12/18/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 91.0 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B5L1803	12/18/2015	12/18/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 102 % 70-130 " " "  
*Surrogate: Toluene-d8* 101 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 101 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	8.44		pH Units	1	B5L1804	"	12/18/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.106		mmhos/cm	"	B5L1805	12/18/2015	12/18/2015	
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**B05 @ 1**  
**12/18/2015 3:10:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X512297-05 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	B5L1802	12/18/2015	12/18/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 84.1 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B5L1803	12/18/2015	12/18/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 102 % 70-130 " " "  
*Surrogate: Toluene-d8* 99.4 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 101 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.71		pH Units	1	B5L1804	"	12/18/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.0703		mmhos/cm	"	B5L1805	12/18/2015	12/18/2015	
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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 B5L1803 - EPA 5030 (soil)**

**Blank (B5L1803-BLK1)**

Prepared: 12/18/2015 Analyzed: 12/18/2015

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Surrogate: 1,2-Dichloroethane-d4	67.5		ug/kg	62.5		108	70-130			
Surrogate: Toluene-d8	61.8		"	62.5		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	63.3		"	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 B5L1803 - EPA 5030 (soil)**

**LCS (B5L1803-BS1)**

Prepared: 12/18/2015 Analyzed: 12/18/2015

Benzene	0.095	0.002	mg/kg	0.100		94.9	77.1-124			
Toluene	0.095	0.002	"	0.100		94.5	74.5-128			
Ethylbenzene	0.096	0.002	"	0.100		96.4	66.4-127			
m,p-Xylene	0.194	0.004	"	0.200		97.0	76.6-124			
o-Xylene	0.097	0.002	"	0.100		97.2	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	63.6		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	62.6		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	62.8		"	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 B5L1803 - EPA 5030 (soil)

Matrix Spike (B5L1803-MS1)	Source: X512284-01			Prepared: 12/18/2015 Analyzed: 12/18/2015						
Benzene	0.091	0.002	mg/kg	0.100	ND	91.0	71.8-126			
Toluene	0.090	0.002	"	0.100	ND	90.2	65.1-130			
Ethylbenzene	0.100	0.002	"	0.100	ND	100	62.2-130			
m,p-Xylene	0.200	0.004	"	0.200	ND	100	46.5-137			
o-Xylene	0.100	0.002	"	0.100	ND	100	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	62.0		ug/kg	62.5		99.2	70-130			
Surrogate: Toluene-d8	64.4		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	68.1		"	62.5		109	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 B5L1803 - EPA 5030 (soil)**

<b>Matrix Spike Dup (B5L1803-MSD1)</b>	<b>Source: X512284-01</b>			<b>Prepared: 12/18/2015 Analyzed: 12/18/2015</b>						
Benzene	0.092	0.002	mg/kg	0.100	ND	92.1	71.8-126	1.27	11.3	
Toluene	0.091	0.002	"	0.100	ND	91.3	65.1-130	1.26	15.4	
Ethylbenzene	0.095	0.002	"	0.100	ND	95.1	62.2-130	5.24	19.6	
m,p-Xylene	0.190	0.004	"	0.200	ND	95.2	46.5-137	5.18	19.2	
o-Xylene	0.095	0.002	"	0.100	ND	95.3	54.2-134	4.79	17.9	
Surrogate: 1,2-Dichloroethane-d4	60.7		ug/kg	62.5		97.1	70-130			
Surrogate: Toluene-d8	63.6		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	66.5		"	62.5		106	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 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 B5L1802 - EPA 3580**

**Blank (B5L1802-BLK1)**

Prepared: 12/18/2015 Analyzed: 12/18/2015

Diesel (C10-C28)	ND	50	mg/kg							
Residual Range Organics (C28-C36)	ND	200	"							
Surrogate: o-Terphenyl	39		"	50.0		77.2	59-131			

**LCS (B5L1802-BS1)**

Prepared: 12/18/2015 Analyzed: 12/18/2015

Diesel (C10-C28)	820	50	mg/kg				64-121			
Residual Range Organics (C28-C36)	850	200	"				58-124			
Surrogate: o-Terphenyl	45		"	50.0		90.3	59-131			

**Matrix Spike (B5L1802-MS1)**

**Source: X512284-01**

Prepared: 12/18/2015 Analyzed: 12/18/2015

Diesel (C10-C28)	930	50	mg/kg		ND		53-125			
Residual Range Organics (C28-C36)	1000	200	"		130		47-133			
Surrogate: o-Terphenyl	47		"	50.0		94.8	59-131			

**Matrix Spike Dup (B5L1802-MSD1)**

**Source: X512284-01**

Prepared: 12/18/2015 Analyzed: 12/18/2015

Diesel (C10-C28)	980	50	mg/kg		ND		53-125	5.20	20	
Residual Range Organics (C28-C36)	1200	200	"		130		47-133	21.7	20	QR-02
Surrogate: o-Terphenyl	51		"	50.0		103	59-131			

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

John Cocroft  
 Project Number: WO# 88938926  
 Project: KMG - Pogg 63N 67W/135ENE

**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 B5L1804 - NO PREP</b>										
<b>Duplicate (B5L1804-DUP1)</b>		<b>Source: X512284-01</b>			Prepared: 12/18/2015 Analyzed: 12/18/2015					
pH	8.18		pH Units		8.16			0.245	25	
<b>Batch B5L1805 - NO PREP</b>										
<b>Blank (B5L1805-BLK1)</b>		Prepared: 12/18/2015 Analyzed: 12/18/2015								
Specific Conductance (EC)	1.34		mmhos/cm							
<b>Duplicate (B5L1805-DUP1)</b>		<b>Source: X512297-01</b>			Prepared: 12/18/2015 Analyzed: 12/18/2015					
Specific Conductance (EC)	0.0377		mmhos/cm		0.0343			9.44	25	

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### Notes and Definitions

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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Jen Pellegrini For Noelle Doyle Mathis, President