



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



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

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

ORIGINS
LABORATORY, INC

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page 1 of 1

Client: LTE

Address: 4600 W 60th AVE
ARVING CO 80003

Telephone Number: 303 433 9788

Email Address: JEACOFFICE@ENV.COM See list

Project Manager: John Caciotti

Project Name: POGG 63N67W/135ENC

Project Number: _____

Samples Collected By: Clay Telford

APC Contact: Sam LaRue

APC WO# 88938926

Refined By: [Signature]

Revised By: [Signature]

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Al ₂ Summa	Other	GrbTx	TpH	EC	
B01e1	12/8/15	1450	2	X				X		X	X	X	X	X	H ₂ O SAR
B02e1	12/8/15	1455	2	X				X		X	X	X	X	X	H ₂ O SAR
B03e1	12/8/15	1500	2	X				X		X	X	X	X	X	H ₂ O SAR
B04e1	12/8/15	1505	2	X				X		X	X	X	X	X	H ₂ O SAR
B05e1	12/8/15	1510	2	X				X		X	X	X	X	X	H ₂ O SAR
BG-01	12/8/15	1515	2	X				X		X	X	X	X	X	H ₂ O SAR

Refined By: [Signature]

Revised By: [Signature]

Date: 12/18/15

Date: 12/18/15

Received By: [Signature]

Received By: [Signature]

Turnaround Time: 24 Hr

Same Day ☒ 24 Hr

48 Hr ☐ 72 Hr ☐

Standard ☐

Date Results Needed: 12/18/15

Temp Received: 12/18/15

Temp Received: 12/18/15

Origins Laboratory, Inc.

Jeff Pellipini

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Arvada CO 80003

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

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: 12/18/13

Airbill #: NA

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

Cooler Number/Temperature: 1 / 19 °C 1 / _____ °C 1 / _____ °C (Describe) _____ °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"/>			
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)

Date/Time Reviewed

Origins Laboratory, Inc.

Jen Pellegrini

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LT Environmental, Inc.
4600 West 60th Avenue
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			"	"	"
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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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Origins Laboratory, Inc.



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

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

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

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

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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Arvada CO 80003

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

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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Arvada CO 80003

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

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

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

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

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

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 Dup (B5L1803-MSD1)		Source: X512284-01			Prepared: 12/18/2015 Analyzed: 12/18/2015					
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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John Cocroft
Project Number: WO# 88938926
Project: KMG - Pogg 63N 67W/135ENE

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			

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LT Environmental, Inc.
4600 West 60th Avenue
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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
Batch B5L1804 - NO PREP										
Duplicate (B5L1804-DUP1)		Source: X512284-01			Prepared: 12/18/2015 Analyzed: 12/18/2015					
pH	8.18		pH Units		8.16			0.245	25	
Batch B5L1805 - NO PREP										
Blank (B5L1805-BLK1)		Prepared: 12/18/2015 Analyzed: 12/18/2015								
Specific Conductance (EC)	1.34		mmhos/cm							
Duplicate (B5L1805-DUP1)		Source: X512297-01			Prepared: 12/18/2015 Analyzed: 12/18/2015					
Specific Conductance (EC)	0.0377		mmhos/cm		0.0343			9.44	25	

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.

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

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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