

February 14, 2014

LT Environmental, Inc.

John Cocroft

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Reigle 29C-9HZ Pad

Project Number - [none]

Attached are your analytical results for KMG - Reigle 29C-9HZ Pad received by Origins Laboratory, Inc. January 07, 2014. This project is associated with Origins project number X401060-01.

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: [none]
Project: KMG - Reigle 29C-9HZ Pad

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Reigle 4-4 On Pad	X401060-01	Soil	January 7, 2014 13:15	01/07/2014 17:00
Reigle 4-4 Off Comp	X401060-02	Soil	January 7, 2014 13:45	01/07/2014 17:00
Reigle 4-4 Off (OA)	X401060-03	Soil	January 7, 2014 13:00	01/07/2014 17:00
Reigle 4-4 Off OB	X401060-04	Soil	January 7, 2014 13:36	01/07/2014 17:00
Reigle 4-4 Off OC	X401060-05	Soil	January 7, 2014 13:38	01/07/2014 17:00
Reigle 4-4 Off OD	X401060-06	Soil	January 7, 2014 13:40	01/07/2014 17:00

Origins Laboratory, Inc.



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Noelle Doyle Mathis, President

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

John Cocroft
 Project Number: [none]
 Project: KMG - Reigle 29C-9HZ Pad

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X401060

Client: LTE

Client Project ID: Reigle 4-4Hz

Checklist Completed by: Jesse Smith

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

Date/time completed: 1/7/14 17:16

Airbill #: NA

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

Cooler Number/Temperature: 133 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: T002

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"/>			PH
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"/>	Soil
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 HNO3 HCL, H2SO4) / (pH > 10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	Soil
Additional Comments (if any):				

* 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)

1/10/14 1600
 Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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

John Cocroft
 Project Number: [none]
 Project: KMG - Reigle 29C-9HZ Pad

Reigle 4-4 On Pad
 1/7/2014 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X401060-01 (Soil)

BTEX by EPA 8260C

Benzene	0.0040	0.002	mg/kg	1	4A08011	01/08/2014	01/09/2014	
Toluene	0.0409	0.002	"	"	"	"	"	
Ethylbenzene	0.0110	0.002	"	"	"	"	"	
Xylenes, total	0.248	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	
Surrogate: Toluene-d8	95.9 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.4 %	70-130			"	"	"	

Conductance/Specific Conductance by EPA 120.1

Specific Conductance (EC)	0.213		mmhos/cm	1	4A09008	01/09/2014	01/10/2014	
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Metals by SW846 3050B/6010C

Arsenic	3.21	2.93	mg/kg dry	1	1359198	01/13/2014	01/14/2014	
Barium	99.9	0.489	"	"	"	"	"	

pH by SW846 9045C/9045D

pH	7.91	0.100	SU	1	1359324		01/13/2014	H
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SAR Metals by SW846 3050B/6010C

Calcium	2520	24.4	mg/kg dry	1	1359198	01/13/2014	01/14/2014	
Magnesium	1460	29.3	"	"	"	"	"	

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 Arvada CO 80003

John Cocroft
 Project Number: [none]
 Project: KMG - Reigle 29C-9HZ Pad

Reigle 4-4 On Pad
1/7/2014 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X401060-01 (Soil)

SAR Metals by SW846 3050B/6010C

Sodium	81.0	24.4	mg/kg dry	1	1359198	01/13/2014	01/14/2014	
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Sodium Adsorption Ratio

Sodium Adsorption Ratio	0.318		none	1	1360022		01/14/2014	
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TCLP Metals by 1311/3010A/6010C

Arsenic	ND	0.300	mg/L	1	1359943	01/14/2014	01/14/2014	U
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TPH-Carbon Chain by EPA Method 8015C

Gasoline (C6-C10)	ND	25.0	mg/kg	1	4A08010	01/08/2014	01/09/2014	
Diesel (C10-C28)	34.5	25.0	"	"	"	"	"	
Residual Range Organics (C28-C36)	ND	50.0	"	"	"	"	"	
TPH - Carbon Chain Total	34.5	25.0	"	"	"	"	"	

Surrogate: o-Terphenyl	88.8 %	59-131			"	"	"	
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LT Environmental, Inc.
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 Arvada CO 80003

John Cocroft
 Project Number: [none]
 Project: KMG - Reigle 29C-9HZ Pad

Reigle 4-4 Off Comp
1/7/2014 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X401060-02 (Soil)

Conductance/Specific Conductance by EPA 120.1

Specific Conductance (EC)	0.161		mmhos/cm	1	4A09008	01/09/2014	01/10/2014	
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Metals by SW846 3050B/6010C

Arsenic	2.88	2.93	mg/kg dry	1	1359198	01/13/2014	01/14/2014	J
Barium	40.1	0.488	"	"	"	"	"	

pH by SW846 9045C/9045D

pH	7.81	0.100	SU	1	1359324		01/13/2014	H
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SAR Metals by SW846 3050B/6010C

Calcium	2740	24.4	mg/kg dry	1	1359198	01/13/2014	01/14/2014	
Magnesium	935	29.3	"	"	"	"	"	
Sodium	89.8	24.4	"	"	"	"	"	

Sodium Adsorption Ratio

Sodium Adsorption Ratio	0.378		none	1	1360022		01/14/2014	
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Arvada CO 80003

John Cocroft
Project Number: [none]
Project: KMG - Reigle 29C-9HZ Pad

Reigle 4-4 Off (OA)
1/7/2014 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X401060-03 (Soil)

Metals by SW846 3050B/6010C

Arsenic	2.35	3.16	mg/kg dry	1	1359198	01/13/2014	01/14/2014	J
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Arvada CO 80003

John Cocroft
Project Number: [none]
Project: KMG - Reigle 29C-9HZ Pad

Reigle 4-4 Off OB
1/7/2014 1:36:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X401060-04 (Soil)

Metals by SW846 3050B/6010C

Arsenic	2.44	3.22	mg/kg dry	1	1359198	01/13/2014	01/14/2014	J
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 Arvada CO 80003

John Cocroft
 Project Number: [none]
 Project: KMG - Reigle 29C-9HZ Pad

Reigle 4-4 Off OC
 1/7/2014 1:38:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
 X401060-05 (Soil)

Metals by SW846 3050B/6010C

Arsenic	1.06	2.87	mg/kg dry	1	1359198	01/13/2014	01/14/2014	J
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Project Number: [none]
Project: KMG - Reigle 29C-9HZ Pad

Reigle 4-4 Off OD
1/7/2014 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X401060-06 (Soil)

Metals by SW846 3050B/6010C

Arsenic	2.62	3.15	mg/kg dry	1	1359198	01/13/2014	01/14/2014	J
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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 4A08011 - EPA 5030 (soil)

Blank (4A08011-BLK1)

Prepared: 01/08/2014 Analyzed: 01/08/2014

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>64</i>		<i>ug/kg</i>	<i>62.5</i>		<i>102</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>60</i>		<i>"</i>	<i>62.5</i>		<i>96.8</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>62</i>		<i>"</i>	<i>62.5</i>		<i>99.1</i>	<i>70-130</i>			

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 Arvada CO 80003

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 Project: KMG - Reigle 29C-9HZ Pad

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 4A08011 - EPA 5030 (soil)

LCS (4A08011-BS1)

Prepared: 01/08/2014 Analyzed: 01/08/2014

Benzene	0.1	0.002	mg/kg	0.100		99.2	70-130			
Toluene	0.1	0.002	"	0.100		101	70-130			
Ethylbenzene	0.1	0.002	"	0.100		98.4	70-130			
m,p-Xylene	0.2	0.004	"	0.200		100	70-130			
o-Xylene	0.1	0.002	"	0.100		101	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>65</i>		<i>ug/kg</i>	<i>62.5</i>		<i>105</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>61</i>		<i>"</i>	<i>62.5</i>		<i>97.2</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>61</i>		<i>"</i>	<i>62.5</i>		<i>97.6</i>	<i>70-130</i>			

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John Cocroft
 Project Number: [none]
 Project: KMG - Reigle 29C-9HZ Pad

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 4A08011 - EPA 5030 (soil)

Matrix Spike (4A08011-MS1)	Source: X401047-01			Prepared: 01/08/2014 Analyzed: 01/08/2014						
Benzene	0.09	0.002	mg/kg	0.100	ND	85.5	70-130			
Toluene	0.09	0.002	"	0.100	ND	87.7	70-130			
Ethylbenzene	0.09	0.002	"	0.100	ND	85.3	70-130			
m,p-Xylene	0.2	0.004	"	0.200	ND	91.4	70-130			
o-Xylene	0.09	0.002	"	0.100	ND	87.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		98.6	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.9	70-130			

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LT Environmental, Inc.
 4600 West 60th Avenue
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John Cocroft
 Project Number: [none]
 Project: KMG - Reigle 29C-9HZ Pad

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 4A08011 - EPA 5030 (soil)

Matrix Spike Dup (4A08011-MSD1)	Source: X401047-01			Prepared: 01/08/2014 Analyzed: 01/08/2014						
Benzene	0.09	0.002	mg/kg	0.100	ND	91.9	70-130	7.24	20	
Toluene	0.1	0.002	"	0.100	ND	95.4	70-130	8.41	20	
Ethylbenzene	0.09	0.002	"	0.100	ND	92.2	70-130	7.73	20	
m,p-Xylene	0.2	0.004	"	0.200	ND	98.4	70-130	7.31	20	
o-Xylene	0.1	0.002	"	0.100	ND	95.8	70-130	9.20	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>61</i>		<i>ug/kg</i>	<i>62.5</i>		<i>98.1</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>62</i>		<i>"</i>	<i>62.5</i>		<i>98.7</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>63</i>		<i>"</i>	<i>62.5</i>		<i>101</i>	<i>70-130</i>			

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 4600 West 60th Avenue
 Arvada CO 80003

John Cocroft
 Project Number: [none]
 Project: KMG - Reigle 29C-9HZ Pad

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 4A08010 - EPA 3580

Blank (4A08010-BLK1)

Prepared: 01/08/2014 Analyzed: 01/08/2014

Gasoline (C6-C10)	ND	50.0	mg/kg							
Diesel (C10-C28)	ND	50.0	"							
Residual Range Organics (C28-C36)	ND	100	"							
TPH - Carbon Chain Total	ND	50.0	"							

Surrogate: *o*-Terphenyl 50.3 g 50.0 101 59-131

LCS (4A08010-BS1)

Prepared: 01/08/2014 Analyzed: 01/08/2014

Gasoline (C6-C10)	941	50.0	mg/kg	1000		94.1	59-133			
Diesel (C10-C28)	1030	50.0	"	1000		103	64-121			
Residual Range Organics (C28-C36)	775	100	"	1000		77.5	58-124			

Surrogate: *o*-Terphenyl 58.8 g 50.0 118 59-131

Matrix Spike (4A08010-MS1)

Source: X401045-01

Prepared: 01/08/2014 Analyzed: 01/08/2014

Gasoline (C6-C10)	918	50.0	mg/kg	1000	21.2	89.7	57-139			
Diesel (C10-C28)	984	50.0	"	1000	ND	98.4	53-125			
Residual Range Organics (C28-C36)	809	100	"	1000	115	69.4	47-133			

Surrogate: *o*-Terphenyl 58.0 g 50.0 116 59-131

Matrix Spike Dup (4A08010-MSD1)

Source: X401045-01

Prepared: 01/08/2014 Analyzed: 01/08/2014

Gasoline (C6-C10)	896	50.0	mg/kg	1000	21.2	87.5	57-139	2.43	20	
Diesel (C10-C28)	989	50.0	"	1000	ND	98.9	53-125	0.526	20	
Residual Range Organics (C28-C36)	895	100	"	1000	115	78.0	47-133	10.1	20	

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John Cocroft
 Project Number: [none]
 Project: KMG - Reigle 29C-9HZ Pad

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 4A08010 - EPA 3580

Matrix Spike Dup (4A08010-MSD1)

Source: X401045-01

Prepared: 01/08/2014 Analyzed: 01/08/2014

Surrogate: <i>o</i> -Terphenyl	57.5		g	50.0		115	59-131			
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LT Environmental, Inc.
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John Cocroft
 Project Number: [none]
 Project: KMG - Reigle 29C-9HZ Pad

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 4A09008 - NO PREP										
Blank (4A09008-BLK1)					Prepared: 01/09/2014 Analyzed: 01/10/2014					
Specific Conductance (EC)	0.00180		mmhos/cm							
Duplicate (4A09008-DUP1)					Source: X401058-02 Prepared: 01/09/2014 Analyzed: 01/10/2014					
Specific Conductance (EC)	0.0800		mmhos/cm		0.0780			2.53	10	

Origins Laboratory, Inc.



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Noelle Doyle Mathis, President

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

John Cocroft
 Project Number: [none]
 Project: KMG - Reigle 29C-9HZ Pad

TCLP Metals by 1311/3010A/6010C - Quality Control
 GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1359943 - SW846 3010A										
TB (1203017407-BLK)					Prepared: 01/14/2014 Analyzed: 01/14/2014					
Arsenic	ND	0.300	mg/L		0		-			U
MS (1203018196 S)		Source: 341048001			Prepared: 01/14/2014 Analyzed: 01/14/2014					
Arsenic	5.26	0.300	mg/L	5.00	<0.050	105	75-125			
BLANK (1203018925-BLK)					Prepared: 01/14/2014 Analyzed: 01/14/2014					
Arsenic	ND	0.300	mg/L		0		-			U
LCS (1203018926-BKS)					Prepared: 01/14/2014 Analyzed: 01/14/2014					
Arsenic	5.15	0.300	mg/L	5.00	0	103	80-120			
DUP (1203019094 D)		Source: 341048001			Prepared: 01/14/2014 Analyzed: 01/14/2014					
Arsenic	ND	0.300	mg/L		<0.050		0-20	NR	20	U

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John Cocroft
 Project Number: [none]
 Project: KMG - Reigle 29C-9HZ Pad

Metals by SW846 3050B/6010C - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1359198 - SW846 3050B

BLANK (1203017169-BLK)

Prepared: 01/13/2014 Analyzed: 01/14/2014

Barium	ND	496	ug/kg		0		-			U
Arsenic	963	2980	"		0		-			J

LCS (1203017170-BKS)

Prepared: 01/13/2014 Analyzed: 01/14/2014

Barium	46300	460	ug/kg	46000	0	101	80-120			
Arsenic	45000	2760	"	46000	0	97.8	80-120			

DUP (1203017776 D)

Source: 341046001

Prepared: 01/13/2014 Analyzed: 01/14/2014

Arsenic	3040	3110	ug/kg dry		4330		0-20	35.0	20	J
Barium	273000	518	"		262000		0-20	4.06	20	

MS (1203017778 S)

Source: 341046001

Prepared: 01/13/2014 Analyzed: 01/14/2014

Arsenic	54200	3130	ug/kg dry	52100	4330	95.6	75-125			
Barium	319000	521	"	52100	262000	109	75-125			

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John Cocroft
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 Project: KMG - Reigle 29C-9HZ Pad

pH by SW846 9045C/9045D - Quality Control
 GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1359324 -										
DUP (1203017460 D)		Source: 341046001			Prepared: Analyzed: 01/13/2014					
pH	8.02	0.100	SU		7.96		0-10	0.751	10	H
DUP (1203017461 D)		Source: 341049001			Prepared: Analyzed: 01/13/2014					
pH	7.90	0.100	SU		7.92		0-10	0.253	10	H
LCS (1203017462-BKS)		Prepared: Analyzed: 01/13/2014								
pH	7.04	0.100	SU	7.00	0	101	99-101			

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John Cocroft
Project Number: [none]
Project: KMG - Reigle 29C-9HZ Pad

Notes and Definitions

- U Result not detected above the detection limit
- J Greater than the detection limit but less than the reporting limit
- H Holding time exceeded
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

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