



April 10, 2015

LT Environmental, Inc.

Justin Solomon

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Small Eyed 14N-35Hz

Project Number - 014211290-384

Attached are your analytical results for KMG - Small Eyed 14N-35Hz received by Origins Laboratory, Inc. April 02, 2015. This project is associated with Origins project number X504041-01.

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

Justin Solomon
Project Number: 014211290-384
Project: KMG - Small Eyed 14N-35Hz

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Off S	X504041-01	Soil	March 31, 2015 16:00	04/02/2015 17:05
Off E	X504041-02	Soil	March 31, 2015 16:10	04/02/2015 17:05
Off N	X504041-03	Soil	March 31, 2015 16:20	04/02/2015 17:05
Off W	X504041-04	Soil	March 31, 2015 16:30	04/02/2015 17:05
Off Comp	X504041-05	Soil	March 31, 2015 16:35	04/02/2015 17:05
Pad Comp	X504041-06	Soil	March 31, 2015 16:45	04/02/2015 17:05

Origins Laboratory, Inc.



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

Justin Solomon
 Project Number: 014211290-384
 Project: KMG - Small Eyed 14N-35Hz

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

Sample Receipt Checklist

Origins Work Order: X 504041 Client: LTE
 Client Project ID: Small Eyed 14N-35Hz
 Checklist Completed by: Jesse Smith Shipped Via: Pick Up
 Date/time completed: 4/3/15 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 13.9 °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⁾ ?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	X			PH
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
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)			X	
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.

Jesse Smith Reviewed by (Project Manager) 4/6/15 Date/Time Reviewed

Origins Laboratory, Inc.



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LT Environmental, Inc.
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Justin Solomon
Project Number: 014211290-384
Project: KMG - Small Eyed 14N-35Hz

Off S

3/31/2015 4:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X504041-01 (Soil)

Metals by SW846 3050B/6010C

Arsenic	1.60	3.14	mg/kg dry	1	1468816	04/06/2015	04/08/2015	J
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Origins Laboratory, Inc.



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Arvada CO 80003

Justin Solomon
Project Number: 014211290-384
Project: KMG - Small Eyed 14N-35Hz

Off E

3/31/2015 4:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X504041-02 (Soil)

Metals by SW846 3050B/6010C

Arsenic	1.56	3.00	mg/kg dry	1	1468816	04/06/2015	04/08/2015	J
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Origins Laboratory, Inc.



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4600 West 60th Avenue
Arvada CO 80003

Justin Solomon
Project Number: 014211290-384
Project: KMG - Small Eyed 14N-35Hz

Off N

3/31/2015 4:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X504041-03 (Soil)

Metals by SW846 3050B/6010C

Arsenic	1.73	2.87	mg/kg dry	1	1468816	04/06/2015	04/08/2015	J
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4600 West 60th Avenue
Arvada CO 80003

Justin Solomon
Project Number: 014211290-384
Project: KMG - Small Eyed 14N-35Hz

Off W

3/31/2015 4:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X504041-04 (Soil)

Metals by SW846 3050B/6010C

Arsenic	1.92	3.02	mg/kg dry	1	1468816	04/06/2015	04/08/2015	J
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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Justin Solomon
 Project Number: 014211290-384
 Project: KMG - Small Eyed 14N-35Hz

Off Comp
3/31/2015 4:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X504041-05 (Soil)

Metals by SW846 3050B/6010C

Arsenic	1.78	2.98	mg/kg dry	1	1468816	04/06/2015	04/08/2015	J
Barium	33.3	0.497	"	"	"	"	"	

pH in Soil by EPA 9045D

pH	6.27		pH Units	1	5D06008	04/06/2015	04/07/2015	
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SAR Metals by SW846 3050B/6010C

Calcium	2300	24.9	mg/kg dry	1	1468815	04/06/2015	04/08/2015	
Magnesium	1090	29.8	"	"	"	"	"	
Sodium	43.9	24.9	"	"	"	"	"	

Sodium Adsorption Ratio

Sodium Adsorption Ratio	0.189		none	1	1470225		04/09/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0991		mmhos/cm	1	5D06009	04/06/2015	04/07/2015	
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 Project Number: 014211290-384
 Project: KMG - Small Eyed 14N-35Hz

Pad Comp
3/31/2015 4:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X504041-06 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	5D03010	04/03/2015	04/03/2015	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.7 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %	70-130			"	"	"	

Metals by SW846 3050B/6010C

Arsenic	2.34	2.94	mg/kg dry	1	1468816	04/06/2015	04/08/2015	J
Barium	1950	2.45	"	5	"	"	04/09/2015	

pH in Soil by EPA 9045D

pH	7.98		pH Units	1	5D06008	04/06/2015	04/07/2015	
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SAR Metals by SW846 3050B/6010C

Calcium	3790	24.5	mg/kg dry	1	1468815	04/06/2015	04/08/2015	
Magnesium	1400	29.4	"	"	"	"	"	
Sodium	222	24.5	"	"	"	"	"	

Sodium Adsorption Ratio

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Pad Comp
3/31/2015 4:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X504041-06 (Soil)

Sodium Adsorption Ratio

Sodium Adsorption Ratio	0.783		none	1	1470225		04/09/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.208		mmhos/cm	1	5D06009	04/06/2015	04/07/2015	
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TCLP Metals by 1311/3010A/6010C

Arsenic	ND	0.300	mg/L	1	1469320	04/07/2015	04/07/2015	U
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TPH-Carbon Chain by EPA Method 8015C

Gasoline (C6-C10)	ND	50	mg/kg	1	5D03008	04/03/2015	04/08/2015	
Diesel (C10-C28)	ND	50	"	"	"	"	"	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	

Surrogate: o-Terphenyl	86.4 %	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 5D03010 - EPA 5030 (soil)

Blank (5D03010-BLK1)

Prepared: 04/03/2015 Analyzed: 04/03/2015

Benzene	ND	0.002	mg/kg							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	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 5D03010 - EPA 5030 (soil)

LCS (5D03010-BS1)

Prepared: 04/03/2015 Analyzed: 04/03/2015

Benzene	0.103	0.002	mg/kg	0.100		103	77.1-124			
Toluene	0.101	0.002	"	0.100		101	74.5-128			
Ethylbenzene	0.107	0.002	"	0.100		107	66.4-127			
m,p-Xylene	0.213	0.004	"	0.200		107	76.6-124			
o-Xylene	0.110	0.002	"	0.100		110	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	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 5D03010 - EPA 5030 (soil)

Matrix Spike (5D03010-MS1)	Source: X504041-06			Prepared: 04/03/2015 Analyzed: 04/03/2015						
Benzene	0.096	0.002	mg/kg	0.100	ND	95.8	71.8-126			
Toluene	0.090	0.002	"	0.100	ND	90.5	65.1-130			
Ethylbenzene	0.095	0.002	"	0.100	ND	94.6	62.2-130			
m,p-Xylene	0.190	0.004	"	0.200	ND	95.0	46.5-137			
o-Xylene	0.097	0.002	"	0.100	ND	96.7	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	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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Batch 5D03010 - EPA 5030 (soil)

Matrix Spike Dup (5D03010-MSD1)	Source: X504041-06		Prepared: 04/03/2015 Analyzed: 04/03/2015				QM-07		
Benzene	0.084	0.002	mg/kg	0.100	ND	84.4	71.8-126	12.6	11.3
Toluene	0.077	0.002	"	0.100	ND	76.5	65.1-130	16.7	15.4
Ethylbenzene	0.076	0.002	"	0.100	ND	75.7	62.2-130	22.2	19.6
m,p-Xylene	0.149	0.004	"	0.200	ND	74.4	46.5-137	24.3	19.2
o-Xylene	0.076	0.002	"	0.100	ND	76.4	54.2-134	23.5	17.9
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		103	70-130		
Surrogate: Toluene-d8	63		"	62.5		101	70-130		
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	70-130		

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 Project: KMG - Small Eyed 14N-35Hz

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 5D03008 - EPA 3580

Blank (5D03008-BLK1)

Prepared: 04/03/2015 Analyzed: 04/03/2015

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

Surrogate: o-Terphenyl 51.3 " 50.0 103 65-146

LCS (5D03008-BS1)

Prepared: 04/03/2015 Analyzed: 04/03/2015

Gasoline (C6-C10)	1200	50	mg/kg	1000		116	66.7-119			
Diesel (C10-C28)	1100	50	"				70.1-127			
Residual Range Organics (C28-C36)	850	200	"	1000		84.7	54.5-139			

Surrogate: o-Terphenyl 47.5 " 50.0 95.1 65-146

Matrix Spike (5D03008-MS1)

Source: X504031-01

Prepared: 04/03/2015 Analyzed: 04/03/2015

Gasoline (C6-C10)	1200	50	mg/kg	1000	61	119	56.4-132			
Diesel (C10-C28)	1400	50	"		250		57.4-138			
Residual Range Organics (C28-C36)	940	200	"	1000	48	89.2	47.7-129			

Surrogate: o-Terphenyl 45.6 " 50.0 91.3 65-146

Matrix Spike Dup (5D03008-MSD1)

Source: X504031-01

Prepared: 04/03/2015 Analyzed: 04/03/2015

Gasoline (C6-C10)	1200	50	mg/kg	1000	61	115	56.4-132	2.54	22	
Diesel (C10-C28)	1300	50	"		250		57.4-138	5.45	18.3	
Residual Range Organics (C28-C36)	890	200	"	1000	48	84.4	47.7-129	5.27	30.1	

Surrogate: o-Terphenyl 41.6 " 50.0 83.2 65-146

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Justin Solomon
 Project Number: 014211290-384
 Project: KMG - Small Eyed 14N-35Hz

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 5D06008 - NO PREP										
Duplicate (5D06008-DUP1)		Source: X504060-01			Prepared: 04/06/2015 Analyzed: 04/07/2015					
pH	8.99		pH Units		8.76			2.59	25	
Duplicate (5D06008-DUP2)		Source: X504059-01			Prepared: 04/06/2015 Analyzed: 04/07/2015					
pH	8.70		pH Units		8.77			0.801	25	
Duplicate (5D06008-DUP3)		Source: X504064-01			Prepared: 04/06/2015 Analyzed: 04/07/2015					
pH	8.39		pH Units		8.36			0.358	25	
Batch 5D06009 - NO PREP										
Blank (5D06009-BLK1)					Prepared: 04/06/2015 Analyzed: 04/07/2015					
Specific Conductance (EC)	0.00290		mmhos/cm							
Blank (5D06009-BLK2)					Prepared: 04/06/2015 Analyzed: 04/07/2015					
Specific Conductance (EC)	0.00250		mmhos/cm							
Blank (5D06009-BLK3)					Prepared: 04/06/2015 Analyzed: 04/07/2015					
Specific Conductance (EC)	0.00370		mmhos/cm							
Duplicate (5D06009-DUP1)		Source: X504064-01			Prepared: 04/06/2015 Analyzed: 04/07/2015					
Specific Conductance (EC)	1.25		mmhos/cm		1.27			1.35	25	
Duplicate (5D06009-DUP2)		Source: X504059-01			Prepared: 04/06/2015 Analyzed: 04/07/2015					
Specific Conductance (EC)	0.0303		mmhos/cm		0.0276			9.33	25	
Duplicate (5D06009-DUP3)		Source: X504060-01			Prepared: 04/06/2015 Analyzed: 04/07/2015					
Specific Conductance (EC)	0.0490		mmhos/cm		0.0524			6.71	25	

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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
Batch 1468816 - SW846 3050B										
BLANK (1203293120-BLK)					Prepared: 04/06/2015 Analyzed: 04/08/2015					
Barium	ND	0.473	mg/kg				-			U
Arsenic	ND	2.84	"				-			U
LCS (1203293121-BKS)					Prepared: 04/06/2015 Analyzed: 04/08/2015					
Barium	49.2	0.489	mg/kg	48.9		101	80-120			
Arsenic	50.1	2.94	"	48.9		102	80-120			
DUP (1203293122 D)		Source: X504041-01			Prepared: 04/06/2015 Analyzed: 04/08/2015					
Barium	29.4	0.523	mg/kg dry		26.7		0-20	9.83	20	
Arsenic	1.11	3.14	"		1.60		0-20	35.8	20	J
MS (1203293123 S)		Source: X504041-01			Prepared: 04/06/2015 Analyzed: 04/08/2015					
Barium	82.3	0.522	mg/kg dry	52.2	26.7	107	75-125			
Arsenic	53.1	3.13	"	52.2	1.60	98.7	75-125			

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

Justin Solomon
 Project Number: 014211290-384
 Project: KMG - Small Eyed 14N-35Hz

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 1469320 - SW846 3010A										
MS (1203293177 S)										
		Source: 370092006			Prepared: 04/07/2015 Analyzed: 04/07/2015					
Arsenic	4.96	0.300	mg/L	5.00	<0.050	98.5	75-125			
TB (1203293178-BLK)										
					Prepared: 04/07/2015 Analyzed: 04/07/2015					
Arsenic	ND	0.300	mg/L				-			U
BLANK (1203294364-BLK)										
					Prepared: 04/07/2015 Analyzed: 04/07/2015					
Arsenic	ND	0.300	mg/L				-			U
LCS (1203294365-BKS)										
					Prepared: 04/07/2015 Analyzed: 04/07/2015					
Arsenic	4.93	0.300	mg/L	5.00		98.6	80-120			
DUP (1203294366 D)										
		Source: 370092006			Prepared: 04/07/2015 Analyzed: 04/07/2015					
Arsenic	0.0673	0.300	mg/L		<0.050		0-20	53.2	20	J

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Notes and Definitions

- U Result not detected above the detection limit
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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.

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