

March 09, 2016

LT Environmental, Inc.

Justin Solomon

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Pettinger 27C-18HZ

Project Number - 014211290-

Attached are your analytical results for KMG - Pettinger 27C-18HZ received by Origins Laboratory, Inc. March 01, 2016. This project is associated with Origins project number X603014-01.

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-
Project: KMG - Pettinger 27C-18HZ

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Off S	X603014-01	Soil	March 1, 2016 12:00	03/01/2016 16:57
Off E	X603014-02	Soil	March 1, 2016 12:10	03/01/2016 16:57
Off N	X603014-03	Soil	March 1, 2016 12:20	03/01/2016 16:57
Off W	X603014-04	Soil	March 1, 2016 12:30	03/01/2016 16:57
Off Comp	X603014-05	Soil	March 1, 2016 12:40	03/01/2016 16:57
Pad Comp	X603014-06	Soil	March 1, 2016 12:50	03/01/2016 16:57

Origins Laboratory, Inc.



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

Justin Solomon
 Project Number: 014211290-
 Project: KMG - Pettinger 27C-18HZ

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X16V3014

Client: LTE

Client Project ID: KMG - Pettinger 27C-18HZ

Checklist Completed by: Jeff Smith

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

Date/time completed: 3/2/14

Airbill #: N/A

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

Cooler Number/Temperature: 1 10.5 °C 1 °C 1 °C 1 °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 ⁽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⁾ ?	✓			
Was adequate sample volume provided ⁽¹⁾ ?	✓			
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⁾ ?	✓			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	✓			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	✓			
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)			✓	
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.

Jeff Smith
 Reviewed by (Project Manager)

3/2/14
 Date/Time Reviewed

Origins Laboratory, Inc.



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

Justin Solomon
Project Number: 014211290-
Project: KMG - Pettinger 27C-18HZ

Off S
3/1/2016 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X603014-01 (Soil)

Metals by SW846 3050B/6020A

Arsenic	0.981	1.05	mg/kg dry	2	1549921	03/07/2016	03/08/2016	J
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Origins Laboratory, Inc.



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Arvada CO 80003

Justin Solomon
Project Number: 014211290-
Project: KMG - Pettinger 27C-18HZ

Off E
3/1/2016 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X603014-02 (Soil)

Metals by SW846 3050B/6020A

Arsenic	1.31	1.05	mg/kg dry	2	1549921	03/07/2016	03/08/2016	
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4600 West 60th Avenue
Arvada CO 80003

Justin Solomon
Project Number: 014211290-
Project: KMG - Pettinger 27C-18HZ

Off N
3/1/2016 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X603014-03 (Soil)

Metals by SW846 3050B/6020A

Arsenic	0.694	0.989	mg/kg dry	2	1549921	03/07/2016	03/08/2016	J
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4600 West 60th Avenue
Arvada CO 80003

Justin Solomon
Project Number: 014211290-
Project: KMG - Pettinger 27C-18HZ

Off W
3/1/2016 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X603014-04 (Soil)

Metals by SW846 3050B/6020A

Arsenic	0.988	0.977	mg/kg dry	2	1549921	03/07/2016	03/08/2016	
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 Arvada CO 80003

Justin Solomon
 Project Number: 014211290-
 Project: KMG - Pettinger 27C-18HZ

Off Comp
3/1/2016 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X603014-05 (Soil)

Metals by 6010

Calcium	3.01		me/L	1	'[none]'	03/03/2016	03/07/2016	
Magnesium	1.27		"	"	"	"	"	
Sodium	11.07		"	"	"	"	"	

Metals by SW846 3050B/6010C

Barium	76.7	0.513	mg/kg dry	1	1549970	03/07/2016	03/07/2016	
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Metals by SW846 3050B/6020A

Arsenic	1.15	1.02	mg/kg dry	2	1549921	"	03/08/2016	
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pH in Soil by EPA 9045D

pH	8.77		pH Units	1	B6C0206	03/02/2016	03/02/2016	
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SAR by 20B Saturated Paste

SAR	7.57			1	'[none]'	03/03/2016	03/07/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0545		mmhos/cm	1	B6C0207	03/02/2016	03/02/2016	
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Pad Comp
3/1/2016 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X603014-06 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	B6C0205	03/02/2016	03/05/2016	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl 138 % 59-131 " " " S-07

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6C0204	03/02/2016	03/03/2016	Ua
Benzene	ND	0.002	"	"	"	"	"	Ua
Toluene	ND	0.002	"	"	"	"	"	Ua
Ethylbenzene	ND	0.002	"	"	"	"	"	Ua
Xylenes, total	ND	0.002	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4 115 % 70-130 " " " "
Surrogate: Toluene-d8 96.9 % 70-130 " " " "
Surrogate: 4-Bromofluorobenzene 112 % 70-130 " " " "

Metals by 6010

Calcium	1.91		me/L	1	'[none]'	03/03/2016	03/07/2016	
Magnesium	0.67		"	"	"	"	"	
Sodium	1.73		"	"	"	"	"	

Metals by SW846 3050B/6010C

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Pad Comp
3/1/2016 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X603014-06 (Soil)

Metals by SW846 3050B/6010C

Barium	2070	2.68	mg/kg dry	5	1549970	03/07/2016	03/07/2016	
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Metals by SW846 3050B/6020A

Arsenic	2.31	1.11	mg/kg dry	2	1549921	"	03/08/2016	
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pH in Soil by EPA 9045D

pH	8.94		pH Units	1	B6C0206	03/02/2016	03/02/2016	
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SAR by 20B Saturated Paste

SAR	1.52			1	'[none]'	03/03/2016	03/07/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.160		mmhos/cm	1	B6C0207	03/02/2016	03/02/2016	
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TCLP Metals by 1311/3010A/6010C

Arsenic	ND	0.300	mg/L	1	1550442	03/09/2016	03/09/2016	U
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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 B6C0204 - EPA 5030 (soil)

Blank (B6C0204-BLK1)

Prepared: 03/02/2016 Analyzed: 03/03/2016

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							Ua
Benzene	ND	0.002	"							Ua
Toluene	ND	0.002	"							Ua
Ethylbenzene	ND	0.002	"							Ua
Xylenes, total	ND	0.002	"							Ua
Surrogate: 1,2-Dichloroethane-d4	66.2		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	60.7		"	62.5		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	61.0		"	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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Batch B6C0204 - EPA 5030 (soil)

LCS (B6C0204-BS1)

Prepared: 03/02/2016 Analyzed: 03/03/2016

Benzene	0.102	0.002	mg/kg	0.100		102	77.1-124			
Toluene	0.099	0.002	"	0.100		98.9	74.5-128			
Ethylbenzene	0.092	0.002	"	0.100		91.9	66.4-127			
m,p-Xylene	0.186	0.004	"	0.200		92.8	76.6-124			
o-Xylene	0.090	0.002	"	0.100		90.5	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61.0		ug/kg	62.5		97.5	70-130			
Surrogate: Toluene-d8	61.0		"	62.5		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	59.8		"	62.5		95.8	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 B6C0204 - EPA 5030 (soil)

Matrix Spike (B6C0204-MS1)	Source: X603006-01			Prepared: 03/02/2016 Analyzed: 03/03/2016						
Benzene	0.107	0.002	mg/kg	0.100	ND	107	71.8-126			
Toluene	0.106	0.002	"	0.100	ND	106	65.1-130			
Ethylbenzene	0.107	0.002	"	0.100	ND	107	62.2-130			
m,p-Xylene	0.215	0.004	"	0.200	ND	107	46.5-137			
o-Xylene	0.104	0.002	"	0.100	ND	104	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	57.4		ug/kg	62.5		91.9	70-130			
Surrogate: Toluene-d8	62.8		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	63.5		"	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 B6C0204 - EPA 5030 (soil)

Matrix Spike Dup (B6C0204-MSD1)	Source: X603006-01			Prepared: 03/02/2016 Analyzed: 03/03/2016						
Benzene	0.104	0.002	mg/kg	0.100	ND	104	71.8-126	2.27	11.3	
Toluene	0.103	0.002	"	0.100	ND	103	65.1-130	2.42	15.4	
Ethylbenzene	0.107	0.002	"	0.100	ND	107	62.2-130	0.0559	19.6	
m,p-Xylene	0.214	0.004	"	0.200	ND	107	46.5-137	0.392	19.2	
o-Xylene	0.104	0.002	"	0.100	ND	104	54.2-134	0.212	17.9	
Surrogate: 1,2-Dichloroethane-d4	59.7		ug/kg	62.5		95.6	70-130			
Surrogate: Toluene-d8	62.5		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	66.0		"	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 B6C0205 - EPA 3580

Blank (B6C0205-BLK1)

Prepared: 03/02/2016 Analyzed: 03/04/2016

Diesel (C10-C28)	ND	50	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	200	"							Ua
Surrogate: o-Terphenyl	44		"	50.0		87.7	59-131			

LCS (B6C0205-BS1)

Prepared: 03/02/2016 Analyzed: 03/04/2016

Diesel (C10-C28)	1200	50	mg/kg	1000		117	64-121			
Residual Range Organics (C28-C40)	1200	200	"	1000		123	58-124			
Surrogate: o-Terphenyl	59		"	50.0		118	59-131			

Matrix Spike (B6C0205-MS1)

Source: X603006-01

Prepared: 03/02/2016 Analyzed: 03/04/2016

Diesel (C10-C28)	990	50	mg/kg	1000	290	70.0	53-125			
Residual Range Organics (C28-C40)	1400	200	"	1000	580	79.1	47-133			
Surrogate: o-Terphenyl	43		"	50.0		85.6	59-131			

Matrix Spike Dup (B6C0205-MSD1)

Source: X603006-01

Prepared: 03/02/2016 Analyzed: 03/04/2016

Diesel (C10-C28)	1000	50	mg/kg	1000	290	73.0	53-125	4.19	20	
Residual Range Organics (C28-C40)	1400	200	"	1000	580	85.6	47-133	7.91	20	
Surrogate: o-Terphenyl	45		"	50.0		90.6	59-131			

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 Project Number: 014211290-
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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
Batch B6C0206 - NO PREP										
Duplicate (B6C0206-DUP1)		Source: X603014-05			Prepared: 03/02/2016 Analyzed: 03/02/2016					
pH	8.81		pH Units		8.77			0.455	25	
Batch B6C0207 - NO PREP										
Blank (B6C0207-BLK1)		Prepared: 03/02/2016 Analyzed: 03/02/2016								
Specific Conductance (EC)	0.00240		mmhos/cm							
Duplicate (B6C0207-DUP1)		Source: X603014-05			Prepared: 03/02/2016 Analyzed: 03/02/2016					
Specific Conductance (EC)	0.0530		mmhos/cm		0.0545			2.79	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 1549970 - SW846 3050B										
BLANK (1203502469-BLK)					Prepared: 03/07/2016 Analyzed: 03/07/2016					
Barium	ND	0.473	mg/kg				-			U
LCS (1203502470-BKS)					Prepared: 03/07/2016 Analyzed: 03/07/2016					
Barium	47.0	0.482	mg/kg	48.2		97.6	80-120			
DUP (1203502471 D)					Source: X603014-05 Prepared: 03/07/2016 Analyzed: 03/07/2016					
Barium	66.1	0.520	mg/kg dry		76.7		0-20	14.8	20	
MS (1203502472 S)					Source: X603014-05 Prepared: 03/07/2016 Analyzed: 03/07/2016					
Barium	122	0.507	mg/kg dry	50.7	76.7	89.4	75-125			

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Metals by SW846 3050B/6020A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1549921 - SW846 3050B										
BLANK (1203502326-BLK)					Prepared: 03/07/2016 Analyzed: 03/08/2016					
Arsenic	ND	0.947	mg/kg				-			U
LCS (1203502327-BKS)					Prepared: 03/07/2016 Analyzed: 03/08/2016					
Arsenic	4.27	0.992	mg/kg	4.96		86.2	80-120			
DUP (1203502328 D)					Source: X603014-01 Prepared: 03/07/2016 Analyzed: 03/08/2016					
Arsenic	0.896	1.02	mg/kg dry		0.981		0-20	9.12	20	J
MS (1203502329 S)					Source: X603014-01 Prepared: 03/07/2016 Analyzed: 03/08/2016					
Arsenic	5.45	1.02	mg/kg dry	5.10	0.981	87.5	75-125			

Origins Laboratory, Inc.



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

Justin Solomon
 Project Number: 014211290-
 Project: KMG - Pettinger 27C-18HZ

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 1550442 - SW846 3010A										
MS (1203501111 S)										
		Source: 392506001			Prepared: 03/09/2016 Analyzed: 03/09/2016					
Arsenic	4.56	0.300	mg/L	5.00	<0.050	90.8	75-125			
TB (1203501112-BLK)										
					Prepared: 03/09/2016 Analyzed: 03/09/2016					
Arsenic	ND	0.300	mg/L				-			U
BLANK (1203503683-BLK)										
					Prepared: 03/09/2016 Analyzed: 03/09/2016					
Arsenic	ND	0.300	mg/L				-			U
LCS (1203503684-BKS)										
					Prepared: 03/09/2016 Analyzed: 03/09/2016					
Arsenic	4.70	0.300	mg/L	5.00		94	80-120			
DUP (1203503685 D)										
		Source: 392506001			Prepared: 03/09/2016 Analyzed: 03/09/2016					
Arsenic	ND	0.300	mg/L		<0.050		0-20	59.9	20	U

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Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

S-07 High surrogate in sample, however sample is non-detect. High surrogate indicates result values are biased high.

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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