

August 5, 2011

Craig Hoffman
Project Manager
California Energy Commission
1516 Ninth Street, MS-15
Sacramento, CA 95814

DOCKET	
08-AFC-13C	
DATE	AUG 05 2011
RECD.	AUG 05 2011

Patrick C. Jackson
600 Darwood Avenue
San Dimas, CA 91773

Re: Calico Solar Project Amendment (CSPA) (08-AFC-13C)
Applicant's Response to Patrick C. Jackson Data Request Set 1 (No. 13)

Dear Messrs. Hoffman and Jackson:

Pursuant to Calico Solar's June 6, 2011 letter responding to Patrick C. Jackson Data Request Set 1 (No. 1-13) dated May 16, 2011 and Calico Solar's Updated Schedule docketed on July 27, 2011, Calico Solar hereby submits additional information in response to Mr. Jackson's Data Request.

TECHNICAL AREA: PUBLIC HEALTH AND SAFETY

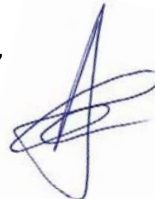
Data Request 13. Please provide a soil study showing the level of arsenic in the Project soils.

Response: Soil samples were randomly collected from the Calico Solar Project site at varying depths on July 5, 6, 11, 12 and 22, 2011. The results of testing these soil samples for arsenic are included in the following reports, which are included with this submittal.

1. July 25, 2011 Laboratory Report (No. 11G066)
2. August 1, 2011 Laboratory Report (No. 11G119)
3. August 2, 2011 Laboratory Report (No. 11G188)

I certify under penalty of perjury that the foregoing is true, correct, and complete to the best of my knowledge.

Sincerely,



Daniel J. O'Shea
On behalf of Calico Solar, LLC

Attachment 1

TABLE OF CONTENTS

CLIENT: TETRA TECH EC, INC
PROJECT: CALICO
SDG: 11G066

SECTION		PAGE
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GC/MS-SVOA	**	3000 –
GC-VOA	**	4000 –
GC-SVOA	**	5000 –
HPLC	**	6000 –
METALS	METHOD 3050B/6010B	7000 – 7013
WET	**	8000 –
OTHERS	**	9000 –

** - Not Requested



LABORATORIES, INC.

1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 07-25-2011
EMAX Batch No.: 11G066

Attn: Lisa Bienkowski

Tetra Tech EC, Inc
17885 Von Karman Ave., #500
Irvine, CA 92614

Subject: Laboratory Report
Project: Calico

Enclosed is the Laboratory report for samples received on 07/11/11.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
070511-56-AS-5	G066-01	07/05/11	SOIL	ARSENIC
070511-56-AS-10	G066-02	07/05/11	SOIL	ARSENIC
070511-58-AS-5	G066-03	07/05/11	SOIL	ARSENIC
070511-58-AS-10	G066-04	07/05/11	SOIL	ARSENIC
070611-50-AS-5	G066-05	07/06/11	SOIL	ARSENIC
070611-53-AS-10	G066-06	07/06/11	SOIL	ARSENIC
070611-52-AS-20	G066-07	07/06/11	SOIL	ARSENIC

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Caspar J. Pang
Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that the results included in this report meets all NELAC & DOD requirements unless noted in the Case Narrative.

NELAC Accredited Certificate Number 02116CA
L-A-B Accredited Certificate Number L2278 Testing

76. 1115

CHAIN OF CUSTODY

EMAX LABORATORIES, INC. 1835 W. 205th Street, Torrance, CA 90501 Tel #: 310-618-8889 Fax #: 310-618-0818 Email: info@emaxlabs.com		PO NUMBER: <u>See 603 worksheet</u>		EMAX CONTROL NO. * <u>116066</u>	
CLIENT <u>CALICO SOLAR (K ROAD SOLAR)</u>		PROJECT CODE:			
PROJECT <u>CALICO, CA</u>		ANALYSIS REQUIRED		TAT	
COORDINATOR <u>Keith Heffelfinger</u>		MATRIX CODE		<input type="checkbox"/> Rush _____ hrs. <input type="checkbox"/> Rush _____ days <input type="checkbox"/> 7 days <input checked="" type="checkbox"/> 14 days <input type="checkbox"/> 21 days <input type="checkbox"/> 30 days <input type="checkbox"/> _____ days	
TEL <u>400-353-0982</u>		DW=Drinking Water		<input type="checkbox"/> IC = Ice <input type="checkbox"/> HC = HCl <input type="checkbox"/> HN=HNO3 <input type="checkbox"/> SH=NaOH <input type="checkbox"/> ST=Na2S2O3 <input type="checkbox"/> ZA=Zinc Acetate <input type="checkbox"/> HS=H2SO4	
FAX <u>400-353-0982</u>		GW=Ground Water			
SEND REPORT TO <u>Keith Heffelfinger</u>		WW=Waste Water			
COMPANY <u>CALICO - KROAD</u>		SD=Solid Waste SL=Sludge			
ADDRESS <u>15550 S. 5th AVE #121</u>		SS=Soil Sediment			
<u>Phoenix, AZ 85045</u>		WP=Wipes PP=Pure Products			
		AR=Air			
		O=			
EMAX PM		CONTAINER		PRESERVATIVE CODES	
SAMPLE ID <u>56</u>		MATRIX CODE		QC	
CLIENT		NO.		TYPE	
LOCATION		DATE		TIME	
LAB		DATE		TIME	
1. 070511-56-AS-5		B-56		7:51	
2. 070511-56-AS-10		B-56		11:51	
3. 070511-58-AS-5		B-58		14:36	
4. 070511-58-AS-10		B-58		14:55	
5. 070611-50-AS-5		B-50		7:25	
6. 070611-53-AS-10		B-53		7:35	
7. 070611-52-AS-20		B-52		7:44	
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186. 070611-52-AS-20					

Type of Delivery	Delivered By/Airbill	ECN <u>11 G066</u>
<input type="checkbox"/> EMAX Courier		Recipient <u>I Patel</u>
<input type="checkbox"/> Client Delivery		Date <u>7-11-11</u>
<input checked="" type="checkbox"/> Third Party <u>Fedex</u>	<u>7972 8501 5065</u>	Time <u>11:30A</u>

COC Inspection					
<input checked="" type="checkbox"/> Client Name	<input type="checkbox"/> Client PM/FC	<u>NO</u>	<input checked="" type="checkbox"/> Sampler Name	<input checked="" type="checkbox"/> Sampling Date/Time/Location	<input checked="" type="checkbox"/> Sample ID
<input type="checkbox"/> Address	<input checked="" type="checkbox"/> Tel # / Fax #	<input type="checkbox"/> Courier Signature	<input type="checkbox"/> Analysis Required	<input type="checkbox"/> Preservative (if any)	<input checked="" type="checkbox"/> PAT
Safety Issues	<input checked="" type="checkbox"/> None	<input type="checkbox"/> High concentrations expected	<input type="checkbox"/> Superfund Site samples	<input type="checkbox"/> Rad screening required	
Comments:					

Packaging Inspection					
Container	<input checked="" type="checkbox"/> Cooler	<input checked="" type="checkbox"/> Box	<input type="checkbox"/> Other		
Condition	<input type="checkbox"/> Custody Seal	<input checked="" type="checkbox"/> Intact	<input type="checkbox"/> Damaged		
Packaging	<input type="checkbox"/> Bubble Pack	<input type="checkbox"/> Styrofoam	<input type="checkbox"/> Popcorn	<input type="checkbox"/> Sufficient	<input checked="" type="checkbox"/> Box
Temperatures (Cool, $\leq 6^{\circ}\text{C}$ but not frozen)	<input checked="" type="checkbox"/> Cooler 1 <u>RT</u> $^{\circ}\text{C}$	<input type="checkbox"/> Cooler 2 $^{\circ}\text{C}$	<input type="checkbox"/> Cooler 3 $^{\circ}\text{C}$	<input type="checkbox"/> Cooler 4 $^{\circ}\text{C}$	<input type="checkbox"/> Cooler 5 $^{\circ}\text{C}$
	<input type="checkbox"/> Cooler 6 $^{\circ}\text{C}$	<input type="checkbox"/> Cooler 7 $^{\circ}\text{C}$	<input type="checkbox"/> Cooler 8 $^{\circ}\text{C}$	<input type="checkbox"/> Cooler 9 $^{\circ}\text{C}$	<input type="checkbox"/> Cooler 10 $^{\circ}\text{C}$
Thermometer:	<u>A - S/N 101541371</u>	<u>B - S/N 101541382</u>			
Comments: <input type="checkbox"/> PM was informed on non-compliant coolers immediately.					
Note: pH holding time requirement is 15 mins. Samples for pH analysis are received beyond 15 minutes from sampling time.					

DISCREPANCIES				
LSID	LSCID	Sample Label ID/COC ID	Discrepancy Code	Corrective Action Code
<u>03</u>	<u>006</u>	<u>ID: 070511-58-AB-10</u> <u>Time 14:36</u> <u>Date 7/5/11</u>	<u>B3</u>	<u>RS, R6</u>

REVIEWS

Sample Labeling

Date

7-11-11

SRF

Date

7-11-11

PM

Date

7/11/11

LEGEND:

Code Description- Sample Management

- A1 Analysis is not indicated in COC
- A2 Analysis is not indicated in label
- A3 Analysis is inconsistent in COC vis-à-vis label
- A4
- B1 Sample ID is not indicated in COC
- B2 Sample ID is not indicated in label
- B3 Sample ID is inconsistent in COC vis-à-vis label
- B4
- C1 Wrong container
- C2 Broken container
- C3 Leaking container
- C4

Code Description-Sample Management

- D1 Date and/or time is not indicated in COC
- D2 Date and/or time is not indicated in label
- D3 Date and/or time is inconsistent in COC vis-à-vis label
- E1 Insufficient preservative
- E2 Improper preservation
- F1 Insufficient Sample
- F2 Bubble is > 6mm
- G1 Temperature is out of range
- G2 Out of Holding Time
- G3 >20 % solid particle
- H1
- H2

Code Description-Project Management

- R1 Hold sample(s), wait for further instructions
- R2 Proceed as indicated in COC
- R3 Refer to attached instruction
- R4 Cancel the analysis
- R5 inform client
- R6 proceed w/analysis using properly labeled container

From: (802) 682-3300
 Scott Estergard
 TetraTech
 4801 E Washington St
 Suite 260
 Phoenix, AZ 85034

Origin ID: NWA



J11201104290225

Ship Date: 08 JUL 11
 AslWgt: 28.0 LB
 CAD: 1002735161NET3180

Dims: 28 X 14 X 15 IN

Delivery Address Bar Code



Ref # 100-9WWW-T27803
 Invoice #
 PO #
 Dept #

11 CT066

7-11-11

SHIP TO: (310) 818-8889 X 117

BILL SENDER

Rina Kato
 EMAX Laboratories, Inc.
 1835 W 205TH ST

TORRANCE, CA 90501

MON - 11 JUL A1
 STANDARD OVERNIGHT

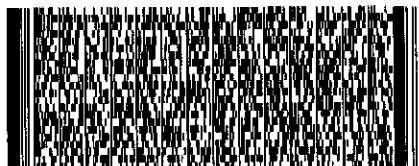
11:30 Am

TRK# 7972 8501 5085

0201

ASR
 90501
 CA-UB
 LAX

QZ AVXA



90QZ/F566/F5F4

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

TETRA TECH EC, INC.

CALICO

METHOD 3050B/6010B
ARSENIC BY TRACE ICP

SDG#: 11G066

CASE NARRATIVE

Client : TETRA TECH EC, INC.

Project : CALICO

SDG : 11G066

METHOD 3050B/6010B ARSENIC BY TRACE ICP

A total of seven (7) soil samples were received on 07/11/11 for Arsenic analysis, Method 3050B/6010B in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time

Samples were analyzed within the prescribed holding time.

Calibration

Initial Calibration was established as prescribed by the method and was verified using a secondary source. Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank

Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample

A set of LCS/LCD was analyzed with the samples in this SDG. Percent recoveries for IPG021SL/C were all within QC limits.

Matrix QC Sample

No matrix QC sample was designated for this SDG. Analytical spike and serial dilution were analyzed for matrix interference evaluation. Results were within method acceptance criteria.

Sample Analysis

Samples were analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

LAB CHRONICLE
ARSENIC BY TRACE ICP

Client : TETRA TECH EC, INC. SDG NO. : 11G066
Project : CALICO Instrument ID : T-ID8

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	SOIL		Extraction Date/Time	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
				Analysis Date/Time						
MBLK1S	IPG021SR	1	NA	07/13/1119:21		07/13/1111:45	ID8G008098	ID8G008096	IPG021S	Method Blank
LCS1S	IPG021SL	1	NA	07/13/1119:24		07/13/1111:45	ID8G008099	ID8G008096	IPG021S	Lab Control Sample (LCS)
LCD1S	IPG021SC	1	NA	07/13/1119:27		07/13/1111:45	ID8G008100	ID8G008096	IPG021S	LCS Duplicate
129178-50-0003AS	G038-01A	0.943	6.5	07/13/1119:30		07/13/1111:45	ID8G008101	ID8G008096	IPG021S	Analytical Spike Sample
129178-50-0003DL	G038-01	0.943	6.5	07/13/1119:32		07/13/1111:45	ID8G008102	ID8G008096	IPG021S	Field Sample
070511-56-AS-5	G038-01J	4.72	6.5	07/13/1119:35		07/13/1111:45	ID8G008103	ID8G008096	IPG021S	Diluted Sample
070511-56-AS-10	G066-01R	0.971	3.1	07/13/1119:55		07/13/1111:45	ID8G008110	ID8G008108	IPG021S	Field Sample
070511-58-AS-5	G066-02R	0.962	3.3	07/13/1119:58		07/13/1111:45	ID8G008111	ID8G008108	IPG021S	Field Sample
070511-58-AS-10	G066-03R	0.980	3.3	07/13/1120:01		07/13/1111:45	ID8G008112	ID8G008108	IPG021S	Field Sample
070611-50-AS-5	G066-04R	0.943	3.8	07/13/1120:04		07/13/1111:45	ID8G008113	ID8G008108	IPG021S	Field Sample
070611-50-AS-10	G066-05R	0.990	3.7	07/13/1120:07		07/13/1111:45	ID8G008114	ID8G008108	IPG021S	Field Sample
070611-53-AS-10	G066-06R	0.971	2.9	07/13/1120:10		07/13/1111:45	ID8G008115	ID8G008108	IPG021S	Field Sample
070611-52-AS-20	G066-07R	0.926	4.4	07/13/1120:13		07/13/1111:45	ID8G008116	ID8G008108	IPG021S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
ARSENIC BY TRACE ICP

```
=====
Client      : TETRA TECH EC, INC.      Date Collected: 07/05/11 11:40
Project     : CALICO                  Date Received: 07/11/11
SDG NO.     : 11G066                  Date Extracted: 07/13/11 11:45
Sample ID: 070511-56-AS-5            Date Analyzed: 07/13/11 19:55
Lab Samp ID: G066-01R                 Dilution Factor: 0.971
Lab File ID: ID8G008110               Matrix      : SOIL
Ext Btch ID: IPG021S                  % Moisture   : 3.1
Calib. Ref.: ID8G008108               Instrument ID : EMAXTID8
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
Arsenic	3.99	1.00	0.401

METHOD 3050B/6010B
ARSENIC BY TRACE ICP

```

=====
Client      : TETRA TECH EC, INC.      Date Collected: 07/05/11 11:51
Project     : CALICO                  Date Received: 07/11/11
SDG NO.     : 11G066                  Date Extracted: 07/13/11 11:45
Sample ID: 070511-56-AS-10           Date Analyzed: 07/13/11 19:58
Lab Samp ID: G066-02R                Dilution Factor: 0.962
Lab File ID: ID8G008111              Matrix       : SOIL
Ext Btch ID: IPG021S                 % Moisture    : 3.3
Calib. Ref.: ID8G008108              Instrument ID : EMAXTID8
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
Arsenic	4.31	0.995	0.398

METHOD 3050B/6010B
ARSENIC BY TRACE ICP

```

=====
Client      : TETRA TECH EC, INC.      Date Collected: 07/05/11 14:36
Project     : CALICO                  Date Received: 07/11/11
SDG NO.     : 11G066                  Date Extracted: 07/13/11 11:45
Sample ID: 070511-58-AS-5             Date Analyzed: 07/13/11 20:01
Lab Samp ID: G066-03R                 Dilution Factor: 0.980
Lab File ID: ID8G008112               Matrix      : SOIL
Ext Btch ID: IPG021S                  % Moisture   : 3.3
Calib. Ref.: ID8G008108               Instrument ID : EMAXTID8
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
Arsenic	5.11	1.01	0.405

METHOD 3050B/6010B
ARSENIC BY TRACE ICP

```
=====
Client      : TETRA TECH EC, INC.      Date Collected: 07/05/11 14:55
Project     : CALICO                  Date Received: 07/11/11
SDG NO.     : 11G066                  Date Extracted: 07/13/11 11:45
Sample ID: 070511-58-AS-10           Date Analyzed: 07/13/11 20:04
Lab Samp ID: G066-04R                 Dilution Factor: 0.943
Lab File ID: ID8G008113               Matrix      : SOIL
Ext Btch ID: IPG021S                  % Moisture   : 3.8
Calib. Ref.: ID8G008108               Instrument ID : EMAXTID8
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
Arsenic	13.2	0.980	0.392

METHOD 3050B/6010B
ARSENIC BY TRACE ICP

```

=====
Client      : TETRA TECH EC, INC.      Date Collected: 07/06/11 07:25
Project     : CALICO                  Date Received: 07/11/11
SDG NO.     : 11G066                  Date Extracted: 07/13/11 11:45
Sample ID   : 070611-50-AS-5          Date Analyzed: 07/13/11 20:07
Lab Samp ID : G066-05R                Dilution Factor: 0.990
Lab File ID : ID8G008114              Matrix       : SOIL
Ext Btch ID : IPG021S                 % Moisture    : 3.7
Calib. Ref.: ID8G008108              Instrument ID : EMAXTID8
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
Arsenic	9.84	1.03	0.411

METHOD 3050B/6010B
ARSENIC BY TRACE ICP

```
=====
Client      : TETRA TECH EC, INC.      Date Collected: 07/06/11 08:35
Project     : CALICO                  Date Received: 07/11/11
SDG NO.     : 11G066                  Date Extracted: 07/13/11 11:45
Sample ID   : 070611-53-AS-10         Date Analyzed: 07/13/11 20:10
Lab Samp ID : G066-06R                Dilution Factor: 0.971
Lab File ID : ID8G008115              Matrix       : SOIL
Ext Btch ID : IPG021S                 % Moisture    : 2.9
Calib. Ref.: ID8G008108               Instrument ID : EMAXTID8
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
Arsenic	8.97	1.00	0.400

METHOD 3050B/6010B
ARSENIC BY TRACE ICP

```
=====
Client      : TETRA TECH EC, INC.      Date Collected: 07/06/11 10:20
Project     : CALICO                  Date Received: 07/11/11
SDG NO.     : 11G066                  Date Extracted: 07/13/11 11:45
Sample ID   : 070611-52-AS-20         Date Analyzed: 07/13/11 20:13
Lab Samp ID : G066-07R                Dilution Factor: 0.926
Lab File ID : ID8G008116              Matrix       : SOIL
Ext Btch ID : IPG021S                 % Moisture    : 4.4
Calib. Ref. : ID8G008108              Instrument ID : EMAXTID8
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
Arsenic	8.51	0.969	0.387

METHOD 3050B/6010B
ARSENIC BY TRACE ICP

```
=====
Client      : TETRA TECH EC, INC.      Date Collected: NA
Project     : CALICO                   Date Received: 07/13/11
SDG NO.     : 11G066                   Date Extracted: 07/13/11 11:45
Sample ID   : MBLK1S                   Date Analyzed: 07/13/11 19:21
Lab Samp ID : IPG021SB                  Dilution Factor: 1
Lab File ID : ID8G008098                Matrix       : SOIL
Ext Btch ID : IPG021S                   % Moisture    : NA
Calib. Ref.: ID8G008096                 Instrument ID : EMAXTID8
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	ND	1.00	0.400

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH EC, INC.
PROJECT: CALICO
SDG NO.: 11G066
METHOD: METHOD 3050B/6010B

MATRIX: SOIL % MOISTURE: NA
DILTN FACTR: 1 1 1
SAMPLE ID: MBLK1S
CONTROL NO.: IPG021SB IPG021SL IPG021SC
LAB FILE ID: ID8G008098 ID8G008099 ID8G008100
DATIME EXTRACTD: 07/13/1111:45 07/13/1111:45 07/13/1111:45 DATE COLLECTED: NA
DATIME ANALYZD: 07/13/1119:21 07/13/1119:24 07/13/1119:27 DATE RECEIVED: 07/13/11
PREP. BATCH: IPG021S IPG021S IPG021S
CALIB. REF: ID8G008096 ID8G008096 ID8G008096

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Arsenic	ND	50	51.2	102	50	50.9	102	1	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: TETRA TECH EC, INC.
PROJECT: CALICO
BATCH NO.: 11G066
METHOD: METHOD 3050B/6010B

=====

MATRIX:	SOIL	% MOISTURE:	6.5
DILUTION FACTOR:	0.943		
SAMPLE ID:	129178-50-0003		129178-50-0003DL
EMAX SAMP ID:	G038-01		G038-01J
LAB FILE ID:	ID8G008102		ID8G008103
DATE EXTRACTED:	07/13/1111:45	DATE COLLECTED:	07/06/11 13:30
DATE ANALYZED:	07/13/1119:32	DATE RECEIVED:	07/07/11
PREP. BATCH:	IPG021S		IPG021S
CALIB. REF:	ID8G008096		ID8G008096

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
-----	-----	-----	-----	-----
Arsenic	1.85	ND	NA	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: TETRA TECH EC, INC.
PROJECT: CALICO
SDG NO.: 11G066
METHOD: METHOD 3050B/6010B

MATRIX: SOIL % MOISTURE: 6.5
DILTN FACTR: 0.943 0.943
SAMPLE ID: 129178-50-0003
CONTROL NO.: G038-01 G038-01A
LAB FILE ID: ID8G008102 ID8G008101
DATIME EXTRCTD: 07/13/1111:45 07/13/1111:45 DATE COLLECTED: 07/06/11 13:30
DATIME ANALYZD: 07/13/1119:32 07/13/1119:30 DATE RECEIVED: 07/07/11
PREP. BATCH: IPG021S IPG021S
CALIB. REF: ID8G008096 ID8G008096

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Arsenic	1.85	50.4	53.4	102	75-125

Attachment 2

TABLE OF CONTENTS

CLIENT: TETRA TECH EC, INC
PROJECT: CALICO
SDG: 11G119

SECTION		PAGE
Cover Letter, COC/Sample Receipt Form		1000 – 1006
GC/MS-VOA	**	2000 –
GC/MS-SVOA	**	3000 –
GC-VOA	**	4000 –
GC-SVOA	**	5000 –
HPLC	**	6000 –
METALS	METHOD 3050B/6010B	7000 – 7027
WET	**	8000 –
OTHERS	**	9000 –

** - Not Requested



LABORATORIES, INC.

1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 08-01-2011
EMAX Batch No.: 11G119

Attn: Lisa Bienkowski

Tetra Tech EC, Inc
17885 Von Karman Ave., #500
Irvine, CA 92614

Subject: Laboratory Report
Project: Calico

Enclosed is the Laboratory report for samples received on 07/19/11.
The data reported relate only to samples listed below :

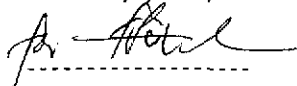
Sample ID	Control #	Col Date	Matrix	Analysis
-----	-----	-----	-----	-----
1A	G119-01	07/11/11	SOIL	ARSENIC
1B	G119-02	07/11/11	SOIL	ARSENIC
2A	G119-03	07/12/11	SOIL	ARSENIC
2B	G119-04	07/12/11	SOIL	ARSENIC
3A	G119-05	07/11/11	SOIL	ARSENIC
3B	G119-06	07/11/11	SOIL	ARSENIC
4A	G119-07	07/11/11	SOIL	ARSENIC
4B	G119-08	07/11/11	SOIL	ARSENIC
5A	G119-09	07/12/11	SOIL	ARSENIC
5B	G119-10	07/12/11	SOIL	ARSENIC
6A	G119-11	07/11/11	SOIL	ARSENIC
6B	G119-12	07/11/11	SOIL	ARSENIC
7A	G119-13	07/12/11	SOIL	ARSENIC
7B	G119-14	07/12/11	SOIL	ARSENIC
8A	G119-15	07/11/11	SOIL	ARSENIC
8B	G119-16	07/11/11	SOIL	ARSENIC
9A	G119-17	07/12/11	SOIL	ARSENIC
9B	G119-18	07/12/11	SOIL	ARSENIC
10A	G119-19	07/12/11	SOIL	ARSENIC

Sample ID	Control #	Col Date	Matrix	Analysis
10B	G119-20	07/12/11	SOIL	ARSENIC

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,



Caspar J. Pang
Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that the results included in this report meets all NELAC & DOD requirements unless noted in the Case Narrative.

NELAC Accredited Certificate Number 02116CA
L-A-B Accredited Certificate Number L2278 Testing



TT-1115-

TETRATECH1230 Columbia Street, Suite 750
San Diego, CA 92101 (619) 234-8696

NUMBER 32457

CHAIN-OF-CUSTODY RECORD

PROJECT NAME		PURCHASE ORDER NO.		ANALYSES REQUIRED										LABORATORY NAME				
PROJECT LOCATION		PROJECT NO.		ARSENIC										EMAX				
SAMPLER NAME		AIRBILL NUMBER												LABORATORY ID (FOR LABORATORY)				
PROJECT CONTACT		PROJECT CONTACT PHONE NUMBER												116119				
D. ALMANZA		970 2239600																
S. Sudo Ko Bob Mossette		949 809 5022																
SAMPLE ID	DATE COLLECTED	TIME COLLECTED	NO. OF CONTAINER	LEVEL		T Y P E	T A T											COMMENTS
				3	4													
1A	7/11/11	1350	1	X		S	5	X										
1B	7/11/11	1351	1	X		S	5	X										
2A	7/12/11	1130	2	X		S	5	X										
2B	7/12/11	1140	2	X		S	5	X										
3A	7/11/11	1158	1	X		S	5	X										
3B	7/11/11	1256	1	X		S	5	X										
4A	7/11/11	1308	1	X		S	5	X										
4B	7/11/11	1327	1	X		S	5	X										
5A	7/12/11	1223	2	X		S	5	X										
5B	7/12/11	1228	2	X		S	5	X										
RELINQUISHED BY (Signature)		DATE	RECEIVED BY (Signature)		LABORATORY INSTRUCTIONS/COMMENTS													
COMPANY		TIME	COMPANY															
RELINQUISHED BY (Signature)		DATE	RECEIVED BY (Signature)		COMPOSITE DESCRIPTION													
COMPANY		TIME	COMPANY															
RELINQUISHED BY (Signature)		DATE	RECEIVED BY (Signature)		SAMPLE CONDITION UPON RECEIPT (FOR LABORATORY)													
COMPANY		TIME	COMPANY		TEMPERATURE: 25 SAMPLE CONDITION: <input checked="" type="checkbox"/> INTACT <input type="checkbox"/> BROKEN													
					COOLER SEAL: <input checked="" type="checkbox"/> INTACT <input type="checkbox"/> BROKEN													



TETRA TECH
1230 Columbia Street, Suite 750
San Diego, CA 92101 (619) 234-8696

NUMBER 32458

CHAIN-OF-CUSTODY RECORD

PROJECT NAME		PURCHASE ORDER NO.		ANALYSES REQUIRED										LABORATORY NAME				
PROJECT LOCATION		PROJECT NO.		ARSENIC										LABORATORY ID (FOR LABORATORY)				
SAMPLER NAME		AIRBILL NUMBER												COMMENTS				
PROJECT CONTACT		PROJECT CONTACT PHONE NUMBER																
CALICO		106-8077.01												EMAX				
D.A. MANZA		970 223 794982336744												11 G 119				
S. Sudo		419 804 5022																
SAMPLE ID	DATE COLLECTED	TIME COLLECTED	NO. OF CONTAINER	LEVEL		T Y P E	T A T											COMMENTS
				3	4													
6A	7/11/11	1452	2	X		S	5	X										
6B	7/11/11	1510	2	X		S	5	X										
7A	7/12/11	0708	2	X		S	5	X										
7B	7/12/11	0716	2	X		S	5	X										
8A	7/11/11	1040	1	X		S	5	X										
8B	7/11/11	1052	1	X		S	5	X										
9A	7/12/11	1000	2	X		S	5	X										
9B	7/12/11	1009	2	X		S	5	X										
10A	7/12/11	0825	2	X		S	5	X										
10B	7/12/11	0834	2	X		S	5	X										
RELINQUISHED BY (Signature)		DATE	RECEIVED BY (Signature)		LABORATORY INSTRUCTIONS/COMMENTS													
COMPANY		TIME	COMPANY															
RELINQUISHED BY (Signature)		DATE	RECEIVED BY (Signature)		COMPOSITE DESCRIPTION													
COMPANY		TIME	COMPANY															
RELINQUISHED BY (Signature)		DATE	RECEIVED BY (Signature)		SAMPLE CONDITION UPON RECEIPT (FOR LABORATORY)													
COMPANY		TIME	COMPANY		TEMPERATURE: 5 SAMPLE CONDITION: <input type="checkbox"/> INTACT <input type="checkbox"/> BROKEN COOLER SEAL: <input type="checkbox"/> INTACT <input type="checkbox"/> BROKEN													

Type of Delivery	Delivered By/Airbill	ECN <u>116119</u>
<input type="checkbox"/> EMAX Courier		Receptient <u>2 PATER</u>
<input type="checkbox"/> Client Delivery		Date <u>7-19-11</u>
<input checked="" type="checkbox"/> Third Party <u>Fedex</u>	<u>7949 8233 6794</u>	Time <u>0915</u>

COC Inspection					
<input checked="" type="checkbox"/> Client Name	<input checked="" type="checkbox"/> Client PM/FC	<input checked="" type="checkbox"/> Sampler Name	<input checked="" type="checkbox"/> Sampling Date/Time/Location	<input checked="" type="checkbox"/> Sample ID	<input checked="" type="checkbox"/> Matrix
<input checked="" type="checkbox"/> Address	<input checked="" type="checkbox"/> Tel # / Fax #	<input type="checkbox"/> Courier Signature	<input checked="" type="checkbox"/> Analysis Required	<input type="checkbox"/> Preservative (if any)	<input checked="" type="checkbox"/> ATAT
Safety Issues	<input checked="" type="checkbox"/> None	<input type="checkbox"/> High concentrations expected	<input type="checkbox"/> Superfund Site samples	<input type="checkbox"/> Rad screening required	
Comments: <u>COC Not Relinquished</u>					

Packaging Inspection					
Container	<input checked="" type="checkbox"/> Cooler	<input type="checkbox"/> Box	<input type="checkbox"/> Other		
Condition	<input checked="" type="checkbox"/> Custody Seal	<input checked="" type="checkbox"/> Intact	<input type="checkbox"/> Damaged		
Packaging	<input checked="" type="checkbox"/> Bubble Pack	<input type="checkbox"/> Styrofoam	<input type="checkbox"/> Popcorn	<input checked="" type="checkbox"/> Sufficient	<input type="checkbox"/>
Temperatures (Cool, ≤6 °C but not frozen)	<input checked="" type="checkbox"/> Cooler 1 <u>45</u> °C	<input type="checkbox"/> Cooler 2 _____ °C	<input type="checkbox"/> Cooler 3 _____ °C	<input type="checkbox"/> Cooler 4 _____ °C	<input type="checkbox"/> Cooler 5 _____ °C
	<input type="checkbox"/> Cooler 6 _____ °C	<input type="checkbox"/> Cooler 7 _____ °C	<input type="checkbox"/> Cooler 8 _____ °C	<input type="checkbox"/> Cooler 9 _____ °C	<input type="checkbox"/> Cooler 10 _____ °C
Thermometer:	A - S/N 101541371	B - S/N 101541382			
Comments: <input type="checkbox"/> PM was informed on non-compliant coolers immediately.					
Note: pH holding time requirement is 15 mins. Samples for pH analysis are received beyond 15 minutes from sampling time.					

DISCREPANCIES				
LSID	LSCID	Sample Label ID/COC ID	Discrepancy Code	Corrective Action Code

REVIEWS

Sample Labeling

Date 7-19-11

SRF

Date 7/19/11

PM

Date 7/19/11

LEGEND:

Code Description- Sample Management

- A1 Analysis is not indicated in COC
- A2 Analysis is not indicated in label
- A3 Analysis is inconsistent in COC vis-à-vis label
- A4 _____
- B1 Sample ID is not indicated in COC
- B2 Sample ID is not indicated in label
- B3 Sample ID is inconsistent in COC vis-à-vis label
- B4 _____
- C1 Wrong container
- C2 Broken container
- C3 Leaking container
- C4 _____

Code Description-Sample Management

- D1 Date and/or time is not indicated in COC
- D2 Date and/or time is not indicated in label
- D3 Date and/or time is inconsistent in COC vis-à-vis label
- E1 Insufficient preservative
- E2 Improper preservation
- F1 Insufficient Sample
- F2 Bubble is > 6mm
- G1 Temperature is out of range
- G2 Out of Holding Time
- G3 >20 % solid particle
- H1 _____
- H2 _____

Code Description-Project Management

- R1 Hold sample(s); wait for further instructions
- R2 Proceed as indicated in COC
- R3 Refer to attached instruction
- R4 Cancel the analysis
- R5 _____
- R6 _____

From: (619) 234-8696
 Diego Almanza
 Tetra Tech EC, Inc
 1230 COLUMBIA ST
 SUITE 750
 SAN DIEGO, CA 92101

Origin ID: SDMA



J11201104290225

Ship Date: 18JUL11
 ActWgt: 50.0 LB
 CAD: 103060046/NET3180

Dims: 12 X 12 X 18 IN

SHIP TO: (310) 618-8889
Sample Receiving
EMAX Laboratories
1835 W 205TH ST

BILL SENDER

TORRANCE, CA 90501

Delivery Address Bar Code



Ref # 106-8077.01
 Invoice #
 PO #
 Dept #

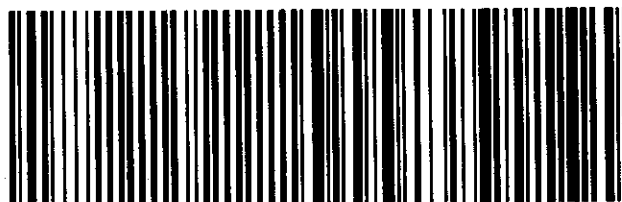
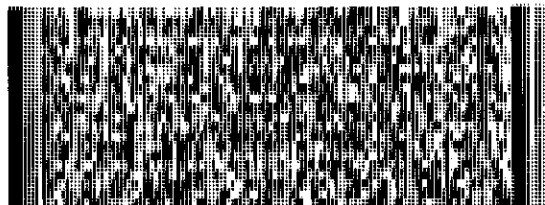
11 G119
 7-19-11
 0915

TUE - 19 JUL A1
PRIORITY OVERNIGHT

TRK# 7949 8233 6794
 0201

QZ AVXA

90501
 CA-US
LAX



50F G2/F556/F5F4

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Rina Kato

From: Rina Kato
Sent: Tuesday, July 19, 2011 3:14 PM
To: 'Bienkowski, Lisa'
Subject: Logins for SDG 11G119, Calico

Lisa,

Attached are the login documents for samples received this morning 7/19. Please note that the COC was not properly signed off on when samples were relinquished. Please review the attached and let me know if any changes/corrections are necessary.

Thanks,

Rina

*Rina Kato
Project Manager
EMAX Laboratories, Inc.
1835 W 205th St.
Torrance, CA 90501
Phone: (310) 618-8889 x117
E-mail: rkato@emaxlabs.com*

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

TETRA TECH EC, INC.

CALICO

METHOD 3050B/6010B
ARSENIC BY TRACE ICP

SDG#: 11G119

CASE NARRATIVE

Client : TETRA TECH EC, INC.

Project : CALICO

SDG : 11G119

METHOD 3050B/6010B
ARSENIC BY TRACE ICP

A total of twenty (20) soil samples were received on 07/19/11 for Arsenic analysis, Method 3050B/6010B in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time

Samples were analyzed within the prescribed holding time.

Calibration

Initial Calibration was established as prescribed by the method and was verified using a secondary source. Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank

Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample

A set of LCS/LCD was analyzed with the samples in this SDG. Percent recoveries for IPG055SL/C were all within QC limits.

Matrix QC Sample

Matrix QC sample was analyzed at the frequency prescribed by the project. Percent recoveries for G119-01M/S were within project QC limits. In addition, analytical spike and serial dilution were analyzed for matrix interference evaluation. Results were within method acceptance criteria.

Sample Analysis

Samples were analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

LAB CHRONICLE
ARSENIC BY TRACE ICP

Client : TETRA TECH EC. INC.
Project : CALICO

SDG NO. : 116119
Instrument ID : T-ID8

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	SOIL			Sample Data FN	Calibration Data FN	Prep. Batch	Notes
				Analysis DateTime	Extraction DateTime					
MBLK1S LCS1S LCD1S LAAS 1A 1AOL 1AMS 1AMSD 18 2A 28 3A 38 4A 48 5A 5B 6A 6B 7A 7B 8A 8B 9A 9B 10A 10B	IPG055S8	1	NA	07/28/1121:29	07/27/1111:57	ID86023054	ID86023052	IPG055S	Method Blank	
	IPG055SL	1	NA	07/28/1121:32	07/27/1111:57	ID86023055	ID86023052	IPG055S	Lab Control Sample (LCS)	
	IPG055SC	1	NA	07/28/1121:35	07/27/1111:57	ID86023056	ID86023052	IPG055S	LCS Duplicate	
	G119-01A	0.926	2.2	07/28/1121:37	07/27/1111:57	ID86023057	ID86023052	IPG055S	Analytical Spike Sample	
	G119-01	0.926	2.2	07/28/1121:40	07/27/1111:57	ID86023058	ID86023052	IPG055S	Field Sample	
	G119-01J	4.63	2.2	07/28/1121:43	07/27/1111:57	ID86023059	ID86023052	IPG055S	Diluted Sample	
	G119-01M	0.943	2.2	07/28/1121:45	07/27/1111:57	ID86023060	ID86023052	IPG055S	Matrix Spike Sample (MS)	
	G119-01S	0.926	2.2	07/28/1121:48	07/27/1111:57	ID86023061	ID86023052	IPG055S	MS Duplicate (MSD)	
	G119-02	0.917	2.7	07/28/1121:51	07/27/1111:57	ID86023062	ID86023052	IPG055S	Field Sample	
	G119-03	0.971	2.0	07/28/1122:02	07/27/1111:57	ID86023066	ID86023064	IPG055S	Field Sample	
	G119-04M	0.917	7.6	07/29/1113:30	07/27/1111:57	ID86024027	ID86024020	IPG055S	Field Sample	
	G119-05	0.962	0.7	07/28/1122:08	07/27/1111:57	ID86023068	ID86023064	IPG055S	Field Sample	
	G119-06	0.971	0.8	07/28/1122:11	07/27/1111:57	ID86023069	ID86023064	IPG055S	Field Sample	
	G119-07	0.962	2.3	07/28/1122:14	07/27/1111:57	ID86023070	ID86023064	IPG055S	Field Sample	
	G119-08	0.926	1.1	07/28/1122:17	07/27/1111:57	ID86023071	ID86023064	IPG055S	Field Sample	
	G119-09	0.926	1.1	07/28/1122:19	07/27/1111:57	ID86023072	ID86023064	IPG055S	Field Sample	
	G119-10	0.980	14.0	07/28/1122:22	07/27/1111:57	ID86023073	ID86023064	IPG055S	Field Sample	
	G119-11	0.943	0.5	07/28/1122:25	07/27/1111:57	ID86023074	ID86023064	IPG055S	Field Sample	
	G119-12	0.990	0.9	07/28/1122:37	07/27/1111:57	ID86023078	ID86023076	IPG055S	Field Sample	
	G119-13	0.980	1.1	07/28/1122:39	07/27/1111:57	ID86023079	ID86023076	IPG055S	Field Sample	
G119-14	0.980	2.2	07/28/1122:42	07/27/1111:57	ID86023080	ID86023076	IPG055S	Field Sample		
G119-15	0.926	0.5	07/28/1122:45	07/27/1111:57	ID86023081	ID86023076	IPG055S	Field Sample		
G119-16	0.952	1.2	07/28/1122:48	07/27/1111:57	ID86023082	ID86023076	IPG055S	Field Sample		
G119-17	0.962	0.4	07/28/1122:51	07/27/1111:57	ID86023083	ID86023076	IPG055S	Field Sample		
G119-18	0.952	1.7	07/28/1122:53	07/27/1111:57	ID86023084	ID86023076	IPG055S	Field Sample		
G119-19	0.926	1.1	07/28/1122:56	07/27/1111:57	ID86023085	ID86023076	IPG055S	Field Sample		
G119-20	0.943	1.5	07/28/1122:59	07/27/1111:57	ID86023086	ID86023076	IPG055S	Field Sample		

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
ARSENIC BY TRACE ICP

```

=====
Client      : TETRA TECH EC, INC.      Date Collected: 07/11/11 13:50
Project     : CALICO                   Date Received: 07/19/11
SDG NO.     : 11G119                  Date Extracted: 07/27/11 11:57
Sample ID: 1A                          Date Analyzed: 07/28/11 21:40
Lab Samp ID: G119-01                   Dilution Factor: 0.926
Lab File ID: ID8G023058                Matrix       : SOIL
Ext Btch ID: IPG055S                   % Moisture    : 2.2
Calib. Ref.: ID8G023052                Instrument ID : EMAXTIDB
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	2.71	0.947	0.379

METHOD 3050B/6010B
ARSENIC BY TRACE ICP

```

=====
Client      : TETRA TECH EC. INC.      Date Collected: 07/11/11 13:51
Project     : CALICO                  Date Received: 07/19/11
SDG NO.     : 116119                 Date Extracted: 07/27/11 11:57
Sample ID: 1B                        Date Analyzed: 07/28/11 21:51
Lab Samp ID: G119-02                 Dilution Factor: 0.917
Lab File ID: ID8G023062              Matrix       : SOIL
Ext Btch ID: 1PG055S                 % Moisture    : 2.7
Calib. Ref.: ID8G023052              Instrument ID : EMAXTID8
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	3.04	0.942	0.377

METHOD 3050B/6010B
ARSENIC BY TRACE ICP

```

=====
Client      : TETRA TECH EC, INC.      Date Collected: 07/12/11 11:30
Project     : CALICO                  Date Received: 07/19/11
SDG NO.     : 11G119                 Date Extracted: 07/27/11 11:57
Sample ID   : 2A                     Date Analyzed: 07/28/11 22:02
Lab Samp ID : G119-03                Dilution Factor: 0.971
Lab File ID : I08G023066             Matrix       : SDIL
Ext Btch ID : IPG0555                % Moisture    : 2.0
Calib. Ref. : I08G023064             Instrument ID : EMAXTID8
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
Arsenic	3.58	0.991	0.396

METHOD 3050B/6010B
ARSENIC BY TRACE ICP

```

=====
Client      : TETRA TECH EC, INC.      Date Collected: 07/12/11 11:40
Project     : CALICO                  Date Received: 07/19/11
SDG NO.     : 11G119                 Date Extracted: 07/27/11 11:57
Sample ID: 2B                        Date Analyzed: 07/29/11 13:30
Lab Samp ID: G119-04W                Dilution Factor: 0.917
Lab File ID: ID8G024027              Matrix       : SOIL
Ext Btch ID: IPG055S                 % Moisture    : 7.6
Calib. Ref.: ID8G024020              Instrument ID : EMAXTD8
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	13.9	0.992	0.397

METHOD 3050B/6010B
ARSENIC BY TRACE ICP

```
=====
Client   : TETRA TECH EC, INC.      Date Collected: 07/11/11 11:58
Project  : CALICO                   Date Received: 07/19/11
SDG NO.  : 11G119                   Date Extracted: 07/27/11 11:57
Sample ID: 3A                       Date Analyzed: 07/28/11 22:08
Lab Samp ID: G119-05                Dilution Factor: 0.962
Lab File ID: I08G023068             Matrix       : SOIL
Ext Btch ID: IPG0555                % Moisture    : 0.7
Calib. Ref.: I08G023064             Instrument ID : EMAXTID8
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
Arsenic	4.23	0.969	0.388

METHOD 3050B/6010B
ARSENIC BY TRACE ICP

```
=====
Client      : TETRA TECH EC, INC.      Date Collected: 07/11/11 12:56
Project     : CALICO                   Date Received: 07/19/11
SDG NO.     : 11G119                  Date Extracted: 07/27/11 11:57
Sample ID   : 3B                       Date Analyzed: 07/28/11 22:11
Lab Samp ID : G119-06                  Dilution Factor: 0.971
Lab File ID : IDBG023069               Matrix       : SOIL
Ext Btch ID : IPG0555                  % Moisture    : 0.8
Calib. Ref. : ID8G023064               Instrument ID : EMAX108
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
Arsenic	4.59	0.979	0.392

METHOD 3050B/6010B
ARSENIC BY TRACE ICP

```

=====
Client      : TETRA TECH EC, INC.      Date Collected: 07/11/11 13:08
Project     : CALICO                  Date Received: 07/19/11
SDG NO.     : 11G119                  Date Extracted: 07/27/11 11:57
Sample ID   : 4A                      Date Analyzed: 07/28/11 22:14
Lab Samp ID : G119-07                 Dilution Factor: 0.962
Lab File ID : ID8G023070              Matrix       : SOIL
Ext Btch ID : IPG055S                 % Moisture    : 2.3
Calib. Ref. : ID8G023064              Instrument ID : EMAXT108
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
----- Arsenic	3.87	0.985	0.394

METHOD 3050B/6010B
ARSENIC BY TRACE ICP

```

=====
Client      : TETRA TECH EC, INC.      Date Collected: 07/11/11 13:27
Project     : CALICO                  Date Received: 07/19/11
SDG NO.     : 11G119                  Date Extracted: 07/27/11 11:57
Sample ID: 4B                         Date Analyzed: 07/28/11 22:17
Lab Samp ID: G119-08                  Dilution Factor: 0.926
Lab File ID: ID8G023071               Matrix       : SOIL
Ext Btch ID: IPG055S                  % Moisture    : 1.1
Calib. Ref.: ID8G023064               Instrument ID : EMAXTID8
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	3.45	0.936	0.375

METHOD 3050B/6010B
ARSENIC BY TRACE ICP

```

=====
Client      : TETRA TECH EC, INC.      Date Collected: 07/12/11 12:23
Project     : CALICO                  Date Received: 07/19/11
SDG NO.     : 11G119                  Date Extracted: 07/27/11 11:57
Sample ID   : 5A                      Date Analyzed: 07/28/11 22:19
Lab Samp ID : G119-09                 Dilution Factor: 0.926
Lab File ID : ID8G023072              Matrix       : SOIL
Ext Btch ID : IPG055S                 % Moisture    : 1.1
Calib. Ref. : ID8G023064              Instrument ID : EMAXT108
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
Arsenic	6.75	0.936	0.375

METHOD 3050B/6010B
ARSENIC BY TRACE ICP

```
=====
Client      : TETRA TECH EC, INC.      Date Collected: 07/12/11 12:28
Project     : CALICO                   Date Received: 07/19/11
SDG NO.     : 11G119                  Date Extracted: 07/27/11 11:57
Sample ID   : 5B                       Date Analyzed: 07/28/11 22:22
Lab Samp ID : G119-10                  Dilution Factor: 0.980
Lab File ID : ID8G023073               Matrix       : SOIL
Ext Btch ID : IPG055S                  % Moisture    : 14.0
Calib. Ref. : ID8G023064               Instrument ID : EMAXTD8
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
Arsenic	24.7	1.14	0.456

METHOD 3050B/6010B
ARSENIC BY TRACE ICP

```

=====
Client      : TETRA TECH EC, INC.      Date Collected: 07/11/11 14:52
Project     : CALICO                   Date Received: 07/19/11
SDG NO.     : 11G119                  Date Extracted: 07/27/11 11:57
Sample ID: 6A                          Date Analyzed: 07/28/11 22:25
Lab Samp ID: G119-11                   Dilution Factor: 0.943
Lab File ID: I08G023074                Matrix       : SOIL
Ext Btch ID: IPG055S                   % Moisture    : 0.5
Calib. Ref.: I08G023064                Instrument ID : EMAXTID8
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	2.77	0.948	0.379

METHOD 3050B/6010B
ARSENIC BY TRACE ICP

```

=====
Client      : TETRA TECH EC, INC.      Date Collected: 07/11/11 15:10
Project     : CALICO                   Date Received: 07/19/11
SDG NO.     : 116119                  Date Extracted: 07/27/11 11:57
Sample ID: 68                          Date Analyzed: 07/28/11 22:37
Lab Samp ID: G119-12                   Dilution Factor: 0.990
Lab File ID: ID8G023078                Matrix       : SOIL
Ext Btch ID: IPG055S                   % Moisture    : 0.9
Calib. Ref.: ID8G023076                Instrument ID : EMAX108
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	3.43	0.999	0.400

METHOD 3050B/6010B
ARSENIC BY TRACE ICP

```

=====
Client      : TETRA TECH EC, INC.      Date Collected: 07/12/11 07:08
Project     : CALICO                  Date Received: 07/19/11
SDG NO.     : 11G119                  Date Extracted: 07/27/11 11:57
Sample ID: 7A                         Date Analyzed: 07/28/11 22:39
Lab Samp ID: G119-13                  Dilution Factor: 0.980
Lab File ID: ID8G023079               Matrix       : SOIL
Ext Btch ID: IPG055S                  % Moisture    : 1.1
Calib. Ref.: ID8G023076               Instrument ID : EMAXTID8
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	3.75	0.991	0.396

METHOD 3050B/6010B
ARSENIC BY TRACE ICP

```

=====
Client      : TETRA TECH EC, INC.      Date Collected: 07/12/11 07:16
Project     : CALICO                  Date Received: 07/19/11
SDG NO.     : 11G119                  Date Extracted: 07/27/11 11:57
Sample ID: 7B                         Date Analyzed: 07/28/11 22:42
Lab Samp ID: G119-14                  Dilution Factor: 0.980
Lab File ID: I08G023080               Matrix      : SOIL
Ext Btch ID: IPG0555                  % Moisture   : 2.2
Calib. Ref.: I08G023076               Instrument ID : EMAXTID8
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
Arsenic	3.63	1.00	0.401

METHOD 3050B/6010B
ARSENIC BY TRACE ICP

```

=====
Client      : TETRA TECH EC, INC.      Date Collected: 07/11/11 10:40
Project     : CALICO                  Date Received: 07/19/11
SDG NO.     : 11G119                  Date Extracted: 07/27/11 11:57
Sample ID: 8A                          Date Analyzed: 07/28/11 22:45
Lab Samp ID: G119-15                  Dilution Factor: 0.926
Lab File ID: ID8G023081               Matrix          : SOIL
Ext Btch ID: IPG055S                  % Moisture       : 0.5
Calib. Ref.: ID8G023076               Instrument ID    : EMAXTD8
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	4.73	0.931	0.372

METHOD 3050B/6010B
ARSENIC BY TRACE ICP

```

=====
Client      : TETRA TECH EC, INC.      Date Collected: 07/11/11 10:52
Project     : CALICO                  Date Received: 07/19/11
SDG NO.     : 11G119                 Date Extracted: 07/27/11 11:57
Sample ID   : 88                     Date Analyzed: 07/28/11 22:48
Lab Samp ID : G119-16                Dilution Factor: 0.952
Lab File ID : I08G023082             Matrix       : SOIL
Ext Btch ID : IPG055S                % Moisture    : 1.2
Calib. Ref. : I08G023076             Instrument ID : EMAXTID8
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
Arsenic	5.97	0.964	0.385

METHOD 3050B/6010B
ARSENIC BY TRACE ICP

```

=====
Client      : TETRA TECH EC, INC.      Date Collected: 07/12/11 10:00
Project     : CALICO                   Date Received: 07/19/11
SDG NO.     : 11G119                  Date Extracted: 07/27/11 11:57
Sample ID: 9A                         Date Analyzed: 07/28/11 22:51
Lab Samp ID: G119-17                  Dilution Factor: 0.962
Lab File ID: ID8G023083               Matrix      : SOIL
Ext Btch ID: IPG055S                  % Moisture   : 0.4
Calib. Ref.: ID8G023076               Instrument ID : EMAXTD8
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	2.80	0.966	0.386

METHOD 30508/6010B
 ARSENIC BY TRACE ICP

```

=====
Client      : TETRA TECH EC, INC.      Date Collected: 07/12/11 10:09
Project     : CALICO                  Date Received: 07/19/11
SDG NO.     : 11G119                 Date Extracted: 07/27/11 11:57
Sample ID: 98                        Date Analyzed: 07/28/11 22:53
Lab Samp ID: G119-18                 Dilution Factor: 0.952
Lab File ID: ID8G023084              Matrix       : SDIL
Ext Btch ID: IPG055S                 % Moisture    : 1.7
Calib. Ref.: ID8G023076              Instrument ID : EMAXTID8
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
Arsenic	2.80	0.968	0.387

METHOD 3050B/6010B
ARSENIC BY TRACE ICP

```
=====
Client      : TETRA TECH EC, INC.      Date Collected: 07/12/11 08:25
Project     : CALICO                   Date Received: 07/19/11
SDG NO.     : 11G119                  Date Extracted: 07/27/11 11:57
Sample ID   : 10A                      Date Analyzed: 07/28/11 22:56
Lab Samp ID : G119-19                  Dilution Factor: 0.926
Lab File ID : ID8G023085               Matrix       : SOIL
Ext Btch ID : IPG055S                  % Moisture    : 1.1
Calib. Ref. : ID8G023076               Instrument ID : EMAXTID8
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
Arsenic	2.90	0.936	0.375

METHOD 3050B/6010B
ARSENIC BY TRACE ICP

```
=====
Client      : TETRA TECH EC. INC.      Date Collected: 07/12/11 08:34
Project     : CALICO                   Date Received: 07/19/11
SDG NO.     : 11G119                  Date Extracted: 07/27/11 11:57
Sample ID   : 108                      Date Analyzed: 07/28/11 22:59
Lab Samp ID : G119-20                  Dilution Factor: 0.943
Lab File ID : ID8G023086               Matrix       : SOIL
Ext Btch ID : IPG055S                  % Moisture    : 1.5
Calib. Ref. : ID8G023076               Instrument ID : EMAXTID8
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
Arsenic	3.38	0.957	0.383

METHOD 3050B/6010B
ARSENIC BY TRACE ICP

```
=====
Client      : TETRA TECH EC, INC.      Date Collected: NA
Project     : CALICO                   Date Received: 07/27/11
SDG NO.     : 11G119                   Date Extracted: 07/27/11 11:57
Sample ID   : MBLK1S                   Date Analyzed: 07/28/11 21:29
Lab Samp ID : IPG055SB                  Dilution Factor: 1
Lab File ID : ID8G023054                Matrix       : SOIL
Ext Btch ID : IPG055S                   % Moisture    : NA
Calib. Ref. : ID8G023052                Instrument ID : EMAXTD8
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
Arsenic	ND	1.00	0.400

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH EC, INC.
PROJECT: CALICO
SDG NO.: 11G119
METHOD: METHDD 30508/60108

MATRIX: SOIL % MOISTURE: NA
DILTN FACTR: 1 1 1
SAMPLE ID: MBLK1S
CONTROL NO.: IPG055SB IPG055SL IPG055SC
LAB FILE ID: ID8G023054 ID8G023055 ID8G023056
DATE EXTRACTD: 07/27/1111:57 07/27/1111:57 07/27/1111:57 DATE COLLECTED: NA
DATE ANALYZD: 07/28/1121:29 07/28/1121:32 07/28/1121:35 DATE RECEIVED: 07/27/11
PREP. BATCH: IPG055S IPG055S IPG055S
CALIB. REF: ID8G023052 ID8G023052 ID8G023052

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Arsenic	ND	50	51	102	50	50.5	101	1	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: TETRA TECH EC, INC.
PROJECT: CALICO
SDG NO.: 116119
METHOD: METHOD 3050B/6010B

MATRIX: SOIL % MOISTURE: 2.2
DILTN FACTR: 0.926 0.943 0.926
SAMPLE ID: 1A
CONTROL NO.: G119-01 G119-01M G119-01S
LAB FILE ID: ID8G023058 ID8G023060 ID8G023061
DATE EXTRACTD: 07/27/1111:57 07/27/1111:57 07/27/1111:57 DATE COLLECTED: 07/11/11 13:50
DATE ANALYZD: 07/28/1121:40 07/28/1121:45 07/28/1121:48 DATE RECEIVED: 07/19/11
PREP. BATCH: IPG055S IPG055S IPG055S
CALIB. REF: ID8G023052 ID8G023052 ID8G023052

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Arsenic	2.71	48.2	52.4	103	47.3	52.4	105	0	75-125	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: TETRA TECH EC, INC.
PROJECT: CALICO
BATCH NO.: 11G119
METHOD: METHOD 3050B/6010B

MATRIX: SOIL % MOISTURE: 2.2
DILUTION FACTOR: 0.926 4.63
SAMPLE ID: 1A 1ADL
EMAX SAMP ID: G119-01 G119-01J
LAB FILE ID: ID8G023058 ID8G023059
DATE EXTRACTED: 07/27/1111:57 07/27/1111:57 DATE COLLECTED: 07/11/11 13:50
DATE ANALYZED: 07/28/1121:40 07/28/1121:43 DATE RECEIVED: 07/19/11
PREP. BATCH: IPG055S IPG055S
CALIB. REF: ID8G023052 ID8G023052

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Arsenic	2.71	3.28J	NA	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: TETRA TECH EC, INC.
PROJECT: CALICO
SDG NO.: 11G119
METHOD: METHOD 3050B/6010B

MATRIX: SOIL % MOISTURE: 2.2
DILTN FACTR: 0.926 0.926
SAMPLE ID: 1A
CONTROL NO.: G119-01 G119-01A
LAB FILE ID: ID8G023058 ID8G023057
DATE TIME EXTRCTD: 07/27/1111:57 07/27/1111:57 DATE COLLECTED: 07/11/11 13:50
DATE TIME ANALYZD: 07/28/1121:40 07/28/1121:37 DATE RECEIVED: 07/19/11
PREP. BATCH: IPG055S IPG055S
CALIB. REF: ID8G023052 ID8G023052

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Arsenic	2.71	47.3	51.2	102	75-125

Attachment 3

TABLE OF CONTENTS

CLIENT: TETRA TECH EC, INC
PROJECT: CALICO
SDG: 11G188

SECTION		PAGE
Cover Letter, COC/Sample Receipt Form		1000 – 1004
GC/MS-VOA	**	2000 –
GC/MS-SVOA	**	3000 –
GC-VOA	**	4000 –
GC-SVOA	**	5000 –
HPLC	**	6000 –
METALS	METHOD 3050B/6010B	7000 – 7008
WET	**	8000 –
OTHERS	**	9000 –

** - Not Requested



LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 08-02-2011
EMAX Batch No.: 11G188

Attn: Lisa Bienkowski

Tetra Tech EC, Inc
17885 Von Karman Ave., #500
Irvine, CA 92614

Subject: Laboratory Report
Project: Calico

Enclosed is the Laboratory report for samples received on 07/27/11.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
072211-54-AS-5	G188-01	07/22/11	SOIL	ARSENIC
072211-54-AS-10	G188-02	07/22/11	SOIL	ARSENIC

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Caspar J. Pang
Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that the results included in this report meets all NELAC & DOD requirements unless noted in the Case Narrative.

NELAC Accredited Certificate Number 02116CA
L-A-B Accredited Certificate Number L2278 Testing

Type of Delivery	Delivered By/Airbill	ECN 11G188
<input type="checkbox"/> EMAX Courier		Receipient J-LUNA
<input type="checkbox"/> Client Delivery		Date 7-27-11
<input checked="" type="checkbox"/> Third Party UPS		Time 0930

COC Inspection					
<input checked="" type="checkbox"/> Client Name	<input checked="" type="checkbox"/> Client PM/FC	<input type="checkbox"/> Sampler Name NO	<input checked="" type="checkbox"/> Sampling Date/Time/Location	<input type="checkbox"/> Sample ID	<input checked="" type="checkbox"/> Matrix
<input checked="" type="checkbox"/> Address	<input checked="" type="checkbox"/> Tel # / Fax #	<input type="checkbox"/> Courier Signature	<input type="checkbox"/> Analysis Required	<input type="checkbox"/> Preservative (if any)	<input type="checkbox"/> TAT
Safety Issues	<input checked="" type="checkbox"/> None	<input type="checkbox"/> High concentrations expected	<input type="checkbox"/> Superfund Site samples	<input type="checkbox"/> Rad screening required	
Comments:					

Packaging Inspection					
Container	<input type="checkbox"/> Cooler	<input checked="" type="checkbox"/> Box	<input type="checkbox"/> Other		
Condition	<input type="checkbox"/> Custody Seal	<input checked="" type="checkbox"/> Intact	<input type="checkbox"/> Damaged		
Packaging	<input checked="" type="checkbox"/> Bubble Pack	<input type="checkbox"/> Styrofoam	<input type="checkbox"/> Popcorn	<input checked="" type="checkbox"/> Sufficient	<input type="checkbox"/>
Temperatures	<input type="checkbox"/> Cooler 1 _____ °C	<input type="checkbox"/> Cooler 2 _____ °C	<input type="checkbox"/> Cooler 3 _____ °C	<input type="checkbox"/> Cooler 4 _____ °C	<input type="checkbox"/> Cooler 5 _____ °C
(Cool, ≤6 °C but not frozen)	<input type="checkbox"/> Cooler 6 _____ °C	<input type="checkbox"/> Cooler 7 _____ °C	<input type="checkbox"/> Cooler 8 _____ °C	<input type="checkbox"/> Cooler 9 _____ °C	<input type="checkbox"/> Cooler 10 _____ °C
Thermometer:	A - S/N 101541371		B - S/N 101541382		
Comments: <input type="checkbox"/> PM was informed on non-compliant coolers immediately.					
Note: pH holding time requirement for water samples is 15 mins. Water samples for pH analysis are received beyond 15 minutes from sampling time.					

DISCREPANCIES				
LSID	LSCID	Sample Label ID/COC ID	Discrepancy Code	Corrective Action Code
01, 02			D2	R2

REVIEWS

Sample Labeling
Date **7/27/11**

SRF **2**
Date **7/27/11**

PM **RK**
Date **7/27/11**

LEGEND:

Code Description-Sample Management

- A1 Analysis is not indicated in COC
- A2 Analysis is not indicated in label
- A3 Analysis is inconsistent in COC vis-à-vis label
- A4 _____
- B1 Sample ID is not indicated in COC
- B2 Sample ID is not indicated in label
- B3 Sample ID is inconsistent in COC vis-à-vis label
- B4 _____
- C1 Wrong container
- C2 Broken container
- C3 Leaking container
- C4 _____

Code Description-Sample Management

- D1 Date and/or time is not indicated in COC
- D2 Date and/or time is not indicated in label
- D3 Date and/or time is inconsistent in COC vis-à-vis label
- E1 Insufficient preservative
- E2 Improper preservation
- F1 Insufficient Sample
- F2 Bubble is > 6mm
- G1 Temperature is out of range
- G2 Out of Holding Time
- G3 >20 % solid particle
- H1 _____
- H2 _____

Code Description-Project Management

- R1 Hold sample(s); wait for further instructions
- R2 Proceed as indicated in COC
- R3 Refer to attached instruction
- R4 Cancel the analysis
- R5 _____
- R6 _____

22-555J
gso.com

11G188

MAILBOXES AND MORE
(480) 460-2108
1334 E. CHANDLER BLVD. STE. 5
PHOENIX AZ 85048

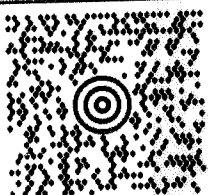
12 LBS

1 OF 1

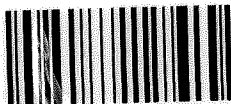
DWT: 12,9,7

SHIP TO:

ATTN: METAL LAB
(310) 618-8889
E MAX LABS RE: CALICO/TETRA TECH
1835 W. 205TH ST.
TORRANCE CA 90501



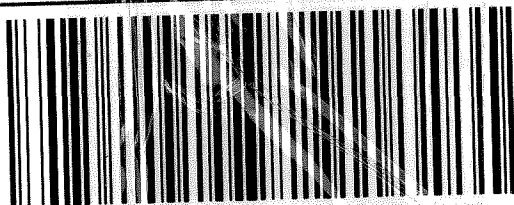
CA 908 9-02



UPS 2ND DAY AIR

RACKING #: 1Z A2V 309 02 5431 6312

2



BILLING: P/P

REF 1:PM PKG ID 968
REF 2:FROM KEITH HEFFELFINGER

W8 14.0.21 Zebra ZP 460 18.0A 07/2011



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REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

TETRA TECH EC, INC.

CALICO

METHOD 3050B/6010B
ARSENIC BY TRACE ICP

SDG#: 11G188

CASE NARRATIVE

Client : TETRA TECH EC, INC.

Project : CALICO

SDG : 11G188

METHOD 3050B/6010B ARSENIC BY TRACE ICP

A total of two (2) soil samples were received on 07/27/11 for Arsenic analysis, Method 3050B/6010B in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time

Samples were analyzed within the prescribed holding time.

Calibration

Initial Calibration was established as prescribed by the method and was verified using a secondary source. Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank

Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample

A set of LCS/LCD was analyzed with the samples in this SDG. Percent recoveries for IPG058SL/C were all within QC limits.

Matrix QC Sample

No matrix QC sample was designated for this SDG. Analytical spike and serial dilution were analyzed for matrix interference evaluation. Results were within method acceptance criteria.

Sample Analysis

Samples were analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

LAB CHRONICLE
ARSENIC BY TRACE ICP

```

=====
Client      : TETRA TECH EC, INC.
Project     : CALICO
=====
SDG NO.    : 11G188
Instrument ID : T-ID8
=====

```

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	SOIL		Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
				Analysis DateTime						
MBLK1S	IPG058SB	1	NA	07/28/1123:11		07/28/1113:42	ID8G023090	ID8G023088	IPG058S	Method Blank
LCS1S	IPG058SL	1	NA	07/28/1123:14		07/28/1113:42	ID8G023091	ID8G023088	IPG058S	Lab Control Sample (LCS)
LCD1S	IPG058SC	1	NA	07/28/1123:16		07/28/1113:42	ID8G023092	ID8G023088	IPG058S	LCS Duplicate
WRA-B12-2-18AS	G162-08A	0.990	1.3	07/28/1123:19		07/28/1113:42	ID8G023093	ID8G023088	IPG058S	Analytical Spike Sample
WRA-B12-2-18	G162-08	0.990	1.3	07/28/1123:22		07/28/1113:42	ID8G023094	ID8G023088	IPG058S	Field Sample
WRA-B12-2-18DL	G162-08J	4.95	1.3	07/28/1123:25		07/28/1113:42	ID8G023095	ID8G023088	IPG058S	Diluted Sample
072211-54-AS-5	G188-01	0.980	3.9	07/28/1100:14		07/28/1113:42	ID8G023112	ID8G023110	IPG058S	Field Sample
072211-54-AS-10	G188-02	0.980	4.2	07/29/1100:17		07/28/1113:42	ID8G023113	ID8G023110	IPG058S	Field Sample

```

=====
FN      - Filename
% Moist - Percent Moisture
=====

```

METHOD 3050B/6010B
ARSENIC BY TRACE ICP

```
=====
Client      : TETRA TECH EC, INC.      Date Collected: 07/22/11 16:50
Project     : CALICO                  Date Received: 07/27/11
SDG NO.     : 11G188                  Date Extracted: 07/28/11 13:42
Sample ID: 072211-54-AS-5             Date Analyzed: 07/29/11 00:14
Lab Samp ID: G188-01                  Dilution Factor: 0.980
Lab File ID: ID8G023112                Matrix       : SOIL
Ext Btch ID: IPG058S                  % Moisture    : 3.9
Calib. Ref.: ID8G023110                Instrument ID : EMAXTID8
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
Arsenic	21.3	1.02	0.408

METHOD 3050B/6010B
ARSENIC BY TRACE ICP

```
=====
Client      : TETRA TECH EC, INC.      Date Collected: 07/22/11 17:35
Project     : CALICO                   Date Received: 07/27/11
SDG NO.     : 11G188                  Date Extracted: 07/28/11 13:42
Sample ID: 072211-54-AS-10            Date Analyzed: 07/29/11 00:17
Lab Samp ID: G188-02                  Dilution Factor: 0.980
Lab File ID: ID8G023113               Matrix      : SOIL
Ext Btch ID: IPG058S                  % Moisture   : 4.2
Calib. Ref.: ID8G023110               Instrument ID : EMAXTID8
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
Arsenic	10.1	1.02	0.409

METHOD 3050B/6010B
ARSENIC BY TRACE ICP

```
=====
Client      : TETRA TECH EC, INC.      Date Collected: NA
Project     : CALICO                   Date Received: 07/28/11
SDG NO.     : 11G188                   Date Extracted: 07/28/11 13:42
Sample ID   : MBLK1S                   Date Analyzed: 07/28/11 23:11
Lab Samp ID : IPG058SB                  Dilution Factor: 1
Lab File ID : ID8G023090                Matrix       : SOIL
Ext Btch ID : IPG058S                   % Moisture    : NA
Calib. Ref.: ID8G023088                 Instrument ID : EMAXTID8
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
Arsenic	ND	1.00	0.400

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH EC, INC.
PROJECT: CALICO
SDG NO.: 11G188
METHOD: METHOD 3050B/6010B

MATRIX: SOIL % MOISTURE: NA
DILT N FACTR: 1 1 1
SAMPLE ID: MBLK1S
CONTROL NO.: IPG058SB IPG058SL IPG058SC
LAB FILE ID: ID8G023090 ID8G023091 ID8G023092
DATIME EXTRACTD: 07/28/1113:42 07/28/1113:42 07/28/1113:42 DATE COLLECTED: NA
DATIME ANALYZD: 07/28/1123:11 07/28/1123:14 07/28/1123:16 DATE RECEIVED: 07/28/11
PREP. BATCH: IPG058S IPG058S IPG058S
CALIB. REF: ID8G023088 ID8G023088 ID8G023088

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Arsenic	ND	50	53.1	106	50	52.2	104	2	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: TETRA TECH EC, INC.
PROJECT: CALICO
BATCH NO.: 11G188
METHOD: METHOD 3050B/6010B

MATRIX: SOIL % MOISTURE: 1.3
DILUTION FACTOR: 0.990 4.95
SAMPLE ID: WRA-B12-2-18 WRA-B12-2-18DL
EMAX SAMP ID: G162-08 G162-08J
LAB FILE ID: ID8G023094 ID8G023095
DATE EXTRACTED: 07/28/1113:42 07/28/1113:42 DATE COLLECTED: 07/21/11 06:55
DATE ANALYZED: 07/28/1123:22 07/28/1123:25 DATE RECEIVED: 07/22/11
PREP. BATCH: IPG058S IPG058S
CALIB. REF: ID8G023088 ID8G023088

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Arsenic	4.48	3.98J	NA	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: TETRA TECH EC, INC.
PROJECT: CALICO
SDG NO.: 11G188
METHOD: METHOD 3050B/6010B

MATRIX: SOIL % MOISTURE: 1.3
DILTN FACTR: 0.990 0.990
SAMPLE ID: WRA-B12-2-18
CONTROL NO.: G162-08 G162-08A
LAB FILE ID: ID8G023094 ID8G023093
DATIME EXTRCTD: 07/28/1113:42 07/28/1113:42 DATE COLLECTED: 07/21/11 06:55
DATIME ANALYZD: 07/28/1123:22 07/28/1123:19 DATE RECEIVED: 07/22/11
PREP. BATCH: IPG058S IPG058S
CALIB. REF: ID8G023088 ID8G023088

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Arsenic	4.48	50.2	56.6	104	75-125



BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT
COMMISSION OF THE STATE OF CALIFORNIA
1516 NINTH STREET, SACRAMENTO, CA 95814
1-800-822-6228 – WWW.ENERGY.CA.GOV

**FOR THE CALICO SOLAR PROJECT
AMENDMENT**

**Docket No. 08-AFC-13C
PROOF OF SERVICE
(Revised 6/7/2011)**

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San Bernardino, CA 92415-0140
bbrizzee@cc.sbcounty.gov

*indicates change

INTERESTED

AGENCIES/ENTITIES/PERSONS

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Jim Stobaugh

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Reno, NV 89520

jim_stobaugh@blm.gov

Bureau of Land Management

Rich Rotte, Project Manager

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DECLARATION OF SERVICE

I, Marsha Curtis, declare that on August 5, 2011, I served by U.S. mail and filed copies of the attached

Applicant's Response to Patrick C. Jackson Data Request Set 1 (No. 13)

dated August 5, 2011. The original document, filed with the Docket Unit, is accompanied by a copy of the most recent Proof of Service list, located on the web page for this project at: **[www.energy.ca.gov/sitingcases/calicosolar/compliance/index.html]**.

The documents have been sent to both the other parties in this proceeding (as shown on the Proof of Service list) and to the Commission's Docket Unit, in the following manner:

(Check all that Apply)

FOR SERVICE TO ALL OTHER PARTIES:

☒ sent electronically to all email addresses on the Proof of Service list;

☐ by personal delivery;

☒ by delivering on this date, for mailing with the United States Postal Service with first-class postage thereon fully prepaid, to the name and address of the person served, for mailing that same day in the ordinary course of business; that the envelope was sealed and placed for collection and mailing on that date to those addresses **NOT** marked "email preferred."

AND

FOR FILING WITH THE ENERGY COMMISSION:

☒ delivering an original paper copy and sending one electronic copy by e-mail to the address below (***preferred method***);

OR

☐ depositing in the mail an original and 12 paper copies, as follows:

CALIFORNIA ENERGY COMMISSION

Attn: Docket No. 08-AFC-13C
1516 Ninth Street, MS-4
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docket@energy.state.ca.us

I declare under penalty of perjury that the foregoing is true and correct, that I am employed in the county where this mailing occurred, and that I am over the age of 18 years and not a party to the proceeding.

