

# CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

03 February 2016

**CLS Work Order #: CZA1260**

**COC #: Green**

Greg Stanton  
El Dorado County Environmental

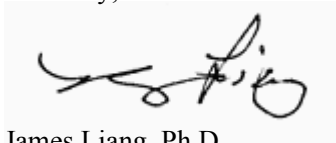
2850 Fairlane Court, Building C  
Placerville, CA 95667

**Project Name: Former Lime Plant**

Enclosed are the results of analyses for samples received by the laboratory on 01/27/16 18:12. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness. Any comments and exceptions are addressed below as well as under the Notes and Definitions section.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

A handwritten signature in black ink, appearing to read 'James Liang', is written over a light gray rectangular background.

James Liang, Ph.D.  
Laboratory Director

# CALIFORNIA LABORATORY SERVICES

02/03/16 11:12

El Dorado County Environmental  
2850 Fairlane Court, Building C  
Placerville CA, 95667

Project: Former Lime Plant  
Project Number: [none]  
Project Manager: Greg Stanton

CLS Work Order #: CZA1260  
COC #: Green

## CAM 17 Metals

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Lime-soil (CZA1260-01) Soil</b> <b>Sampled: 01/19/16 14:15</b> <b>Received: 01/27/16 18:12</b>										
<b>Antimony</b>	<b>0.35</b>	0.20	2.5	mg/kg	5	CZ00598	01/29/16	01/29/16	EPA 6020	J
<b>Arsenic</b>	<b>1.9</b>	0.39	1.0	"	5	"	"	"	"	
<b>Barium</b>	<b>27</b>	0.50	1.0	"	5	"	"	"	"	
Beryllium	ND	0.060	1.0	"	5	"	"	"	"	
Cadmium	ND	0.16	1.0	"	5	"	"	"	"	
<b>Chromium</b>	<b>3.3</b>	0.31	1.0	"	5	"	"	"	"	
<b>Cobalt</b>	<b>0.89</b>	0.12	1.0	"	5	"	"	"	"	J
<b>Copper</b>	<b>4.7</b>	0.27	1.0	"	5	"	"	"	"	
<b>Lead</b>	<b>26</b>	0.60	2.5	"	5	"	"	"	"	
Mercury	ND	0.0072	0.10	"	1	CZ00736	02/01/16	02/02/16	EPA 7471A	
<b>Molybdenum</b>	<b>0.15</b>	0.050	1.0	"	5	CZ00598	01/29/16	01/29/16	EPA 6020	J
<b>Nickel</b>	<b>1.7</b>	0.11	1.0	"	5	"	"	"	"	
<b>Selenium</b>	<b>0.17</b>	0.11	2.5	"	5	"	"	"	"	J
<b>Silver</b>	<b>0.54</b>	0.080	1.0	"	5	"	"	"	"	J
Thallium	ND	0.022	1.0	"	5	"	"	"	"	
<b>Vanadium</b>	<b>14</b>	0.29	1.0	"	5	"	"	"	"	
<b>Zinc</b>	<b>9.2</b>	0.47	2.5	"	5	"	"	"	"	

CA DOHS ELAP Accreditation/Registration Number 1233

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El Dorado County Environmental 2850 Fairlane Court, Building C Placerville CA, 95667	Project: Former Lime Plant Project Number: [none] Project Manager: Greg Stanton	CLS Work Order #: CZA1260 COC #: Green
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## CAM 17 Metals - Quality Control

### CLS Labs

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch CZ00598 - EPA 3050B

##### Blank (CZ00598-BLK1)

Prepared & Analyzed: 01/26/16

Antimony	0.187	0.039	0.50	mg/kg							J
Arsenic	ND	0.077	0.20	"							
Barium	ND	0.10	0.20	"							
Beryllium	ND	0.012	0.20	"							
Cadmium	ND	0.031	0.20	"							
Chromium	ND	0.061	0.20	"							
Cobalt	ND	0.023	0.20	"							
Copper	ND	0.054	0.20	"							
Lead	ND	0.12	0.50	"							
Molybdenum	ND	0.010	0.20	"							
Nickel	ND	0.022	0.20	"							
Selenium	0.137	0.021	0.50	"							J
Silver	ND	0.016	0.20	"							
Thallium	0.0620	0.0044	0.20	"							J
Vanadium	0.141	0.057	0.20	"							J
Zinc	ND	0.093	0.50	"							

##### LCS (CZ00598-BS1)

Prepared & Analyzed: 01/26/16

Antimony	75.1	0.039	0.50	mg/kg	100		75	75-125			
Arsenic	75.1	0.077	0.20	"	100		75	75-125			
Barium	77.7	0.10	0.20	"	100		78	75-125			
Beryllium	80.7	0.012	0.20	"	100		81	75-125			
Cadmium	78.0	0.031	0.20	"	100		78	75-125			
Chromium	87.1	0.061	0.20	"	100		87	75-125			
Cobalt	77.9	0.023	0.20	"	100		78	75-125			
Copper	74.4	0.054	0.20	"	100		74	75-125			QM-1
Lead	98.2	0.12	0.50	"	100		98	75-125			
Molybdenum	75.8	0.010	0.20	"	100		76	75-125			
Nickel	76.0	0.022	0.20	"	100		76	75-125			
Selenium	74.6	0.021	0.50	"	100		75	75-125			
Silver	83.2	0.016	0.20	"	100		83	75-125			
Thallium	74.8	0.0044	0.20	"	100		75	75-125			
Vanadium	91.1	0.057	0.20	"	100		91	75-125			
Zinc	85.9	0.093	0.50	"	100		86	75-125			

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El Dorado County Environmental 2850 Fairlane Court, Building C Placerville CA, 95667	Project: Former Lime Plant Project Number: [none] Project Manager: Greg Stanton	CLS Work Order #: CZA1260 COC #: Green
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## CAM 17 Metals - Quality Control

### CLS Labs

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch CZ00598 - EPA 3050B

Matrix Spike (CZ00598-MS1)	Source: CZA0961-01				Prepared & Analyzed: 01/26/16						
Antimony	44.3	0.20	2.5	mg/kg	100	1.67	43	75-125			QM-5
Arsenic	84.0	0.39	1.0	"	100	3.48	80	75-125			
Barium	203	0.50	1.0	"	100	122	81	75-125			
Beryllium	89.2	0.060	1.0	"	100	0.320	89	75-125			
Cadmium	90.1	0.16	1.0	"	100	0.235	90	75-125			
Chromium	117	0.31	1.0	"	100	35.9	81	75-125			
Cobalt	85.8	0.12	1.0	"	100	7.38	78	75-125			
Copper	96.0	0.27	1.0	"	100	14.0	82	75-125			
Lead	118	0.60	2.5	"	100	50.8	67	75-125			QM-5
Molybdenum	80.9	0.050	1.0	"	100	1.94	79	75-125			
Nickel	113	0.11	1.0	"	100	30.0	83	75-125			
Selenium	82.4	0.11	2.5	"	100	1.10	81	75-125			
Silver	86.0	0.080	1.0	"	100	0.285	86	75-125			
Thallium	79.5	0.022	1.0	"	100	1.09	78	75-125			
Vanadium	117	0.29	1.0	"	100	36.8	80	75-125			
Zinc	159	0.47	2.5	"	100	80.9	78	75-125			

Matrix Spike Dup (CZ00598-MSD1)	Source: CZA0961-01				Prepared & Analyzed: 01/26/16						
Antimony	37.6	0.20	2.5	mg/kg	100	1.67	36	75-125	16	30	QM-5
Arsenic	84.3	0.39	1.0	"	100	3.48	81	75-125	0.4	30	
Barium	198	0.50	1.0	"	100	122	77	75-125	2	30	
Beryllium	88.8	0.060	1.0	"	100	0.320	88	75-125	0.5	30	
Cadmium	91.6	0.16	1.0	"	100	0.235	91	75-125	2	30	
Chromium	122	0.31	1.0	"	100	35.9	86	75-125	5	30	
Cobalt	86.4	0.12	1.0	"	100	7.38	79	75-125	0.7	30	
Copper	95.3	0.27	1.0	"	100	14.0	81	75-125	0.7	30	
Lead	121	0.60	2.5	"	100	50.8	70	75-125	2	30	QM-5
Molybdenum	82.4	0.050	1.0	"	100	1.94	80	75-125	2	30	
Nickel	113	0.11	1.0	"	100	30.0	83	75-125	0.1	30	
Selenium	83.0	0.11	2.5	"	100	1.10	82	75-125	0.7	30	
Silver	84.2	0.080	1.0	"	100	0.285	84	75-125	2	30	
Thallium	81.3	0.022	1.0	"	100	1.09	80	75-125	2	30	
Vanadium	118	0.29	1.0	"	100	36.8	81	75-125	0.7	30	
Zinc	159	0.47	2.5	"	100	80.9	78	75-125	0.2	30	

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Project Number: [none]  
Project Manager: Greg Stanton

CLS Work Order #: CZA1260  
COC #: Green

## CAM 17 Metals - Quality Control

### CLS Labs

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch CZ00736 - EPA 7471A</b>											
<b>Blank (CZ00736-BLK1)</b>											
						Prepared: 02/01/16 Analyzed: 02/02/16					
Mercury	ND	0.0072	0.10	mg/kg							
<b>LCS (CZ00736-BS1)</b>											
						Prepared: 02/01/16 Analyzed: 02/02/16					
Mercury	0.277	0.0072	0.10	mg/kg	0.250		111	75-125			
<b>Matrix Spike (CZ00736-MS1)</b>											
						Source: CZA1193-01 Prepared: 02/01/16 Analyzed: 02/02/16					
Mercury	0.312	0.0072	0.10	mg/kg	0.250	0.0915	88	75-125			
<b>Matrix Spike Dup (CZ00736-MSD1)</b>											
						Source: CZA1193-01 Prepared: 02/01/16 Analyzed: 02/02/16					
Mercury	0.310	0.0072	0.10	mg/kg	0.250	0.0915	87	75-125	0.6	25	

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## Notes and Definitions

QM-5	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM-1	The spike recovery was outside acceptance limits for the LCS or LCSD. The batch was accepted based on acceptable MS/MSD recoveries & RPD's.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

**This is a “MDL Report”, thus if the report denotes an “ND” for a particular analyte, it should be noted that the analyte was not detected at or above the MDL.**

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02/03/16 11:12

El Dorado County Environmental  
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Placerville CA, 95667

Project: Former Lime Plant  
Project Number: [none]  
Project Manager: Greg Stanton

CLS Work Order #: CZA1260  
COC #: Green

## CHANGE OF STATUS

CLS Labs Job # CZA0870

CZA1260

Project Name: Former Lime Plant

Date Sample(s) Were Received: 1/20/16 Original Date 1/27/16

ROBERT LAURITZER of EL DORADO CO. called  
(Client Contacted) (Company)

on 1/27/16 at 0920 hrs Central  
(Date) (Time)

... and requested the following:

Run CAM 17, TLL on sample:  
-01 (Line-301L)

Turnaround time requested for additional work: 5 Days  
(Signature) 1/27/16 (Date)

Updated lab job database and file folder by: \_\_\_\_\_  
Cc: \_\_\_\_\_

HAWillOrellana\ChangeOfStatus.Doc