

SOIL

**EXCELICHEM**  
**Environmental Labs**

1135 W Sunset Boulevard  
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Rocklin, CA 95765  
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ELAP Certificate No. : 2119

11 June 2013

Leticia Valadez

RWQC Central Valley

11020 Sun Center Dr. #200

Rancho Cordova, CA 95670

RE: Lime Kiln

Work order number:1305393

Enclosed are the results of analyses for samples received by the laboratory on 05/24/13 17:25. All Quality Control results are within acceptable limits except where noted as a case narrative. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

A handwritten signature in black ink, appearing to read 'John Somers'.

John Somers, Lab Director

## Excelchem Environmental Labs

RWQC Central Valley  
11020 Sun Center Dr. #200  
Rancho Cordova, CA 95670

Project: Lime Kiln  
Project Number: [none]  
Project Manager: Leticia Valadez

Date Reported:  
06/11/13 12:28

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Lime Waste	1305393-01	Soil	05/13/13 09:30	05/24/13 17:25
Confluence	1305393-02	Soil	05/13/13 09:30	05/24/13 17:25

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Laboratory Representative

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RWQC Central Valley  
11020 Sun Center Dr. #200  
Rancho Cordova, CA 95670

Project: Lime Kiln  
Project Number: [none]  
Project Manager: Leticia Valadez

Date Reported:  
06/11/13 12:28

### Lime Waste 1305393-01 (Soil)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
<b>Total Recoverable Metals</b>										
Antimony	ND	1.0	0.4	mg/kg	1	AWE0336	05/29/13	05/30/13	EPA 6010B	
Arsenic	5.8	1.0	0.4	"	1	"	"	"	"	
Barium	90.0	2.0	0.3	"	1	"	"	"	"	
Beryllium	ND	0.5	0.009	"	1	"	"	"	"	
Cadmium	1.6	1.0	0.09	"	1	"	"	"	"	
Chromium	27.3	1.0	0.03	"	1	"	"	"	"	
Cobalt	5.7	5.0	0.05	"	1	"	"	"	"	
Copper	34.7	2.0	0.1	"	1	"	"	"	"	
Lead	14.1	1.0	0.2	"	1	"	"	"	"	
Molybdenum	1.1	1.0	0.1	"	1	"	"	"	"	
Nickel	49.8	1.0	0.05	"	1	"	"	"	"	
Selenium	ND	2.0	0.2	"	1	"	"	"	"	
Silver	ND	1.0	0.06	"	1	"	"	"	"	
Thallium	ND	2.0	0.5	"	1	"	"	"	"	
Vanadium	29.1	2.0	0.03	"	1	"	"	"	"	
Zinc	81.2	2.0	0.2	"	1	"	"	"	"	
Magnesium	6450	5.0	0.01	"	1	"	"	"	"	
Mercury	0.053	0.010	0.0001	"	1	AWE0321	05/28/13	05/28/13	EPA 7471A	
Potassium	704	20.0	0.06	"	1	AWE0336	05/29/13	05/30/13	EPA 6010B	
Sodium	210	20.0	0.1	"	1	"	"	"	"	

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Date Reported:  
06/11/13 12:28

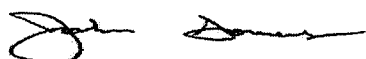
#### Lime Waste 1305393-01RE1 (Soil)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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#### Total Recoverable Metals

Calcium	22600	100	0.8	mg/kg	10	AWE0336	05/29/13	06/05/13	EPA 6010B	
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11020 Sun Center Dr. #200  
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Project: Lime Kiln  
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Project Manager: Leticia Valadez

Date Reported:  
06/11/13 12:28

### Confluence 1305393-02 (Soil)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
<b>Total Recoverable Metals</b>										
Antimony	ND	1.0	0.4	mg/kg	1	AWE0336	05/29/13	05/30/13	EPA 6010B	
Arsenic	4.9	1.0	0.4	"	1	"	"	"	"	
Barium	106	2.0	0.3	"	1	"	"	"	"	
Beryllium	ND	0.5	0.009	"	1	"	"	"	"	
Cadmium	ND	1.0	0.09	"	1	"	"	"	"	
Chromium	38.0	1.0	0.03	"	1	"	"	"	"	
Cobalt	10.2	5.0	0.05	"	1	"	"	"	"	
Copper	62.4	2.0	0.1	"	1	"	"	"	"	
Lead	23.1	1.0	0.2	"	1	"	"	"	"	
Molybdenum	1.2	1.0	0.1	"	1	"	"	"	"	
Nickel	46.6	1.0	0.05	"	1	"	"	"	"	
Selenium	ND	2.0	0.2	"	1	"	"	"	"	
Silver	ND	1.0	0.06	"	1	"	"	"	"	
Thallium	ND	2.0	0.5	"	1	"	"	"	"	
Vanadium	38.3	2.0	0.03	"	1	"	"	"	"	
Zinc	126	2.0	0.2	"	1	"	"	"	"	
Magnesium	8070	5.0	0.01	"	1	"	"	"	"	
Mercury	0.161	0.010	0.0001	"	1	AWE0321	05/28/13	05/28/13	EPA 7471A	
Potassium	979	20.0	0.06	"	1	AWE0336	05/29/13	05/30/13	EPA 6010B	
Sodium	148	20.0	0.1	"	1	"	"	"	"	

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Project: Lime Kiln  
Project Number: [none]  
Project Manager: Leticia Valadez

Date Reported:  
06/11/13 12:28

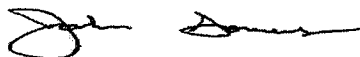
**Confluence**  
**1305393-02RE1 (Soil)**

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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**Total Recoverable Metals**

Calcium	8870	100	0.8	mg/kg	10	AWE0336	05/29/13	06/05/13	EPA 6010B	
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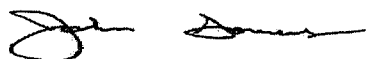
Project: Lime Kiln  
Project Number: [none]  
Project Manager: Leticia Valadez

Date Reported:  
06/11/13 12:28

### Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch AWE0321 - EPA 7471A</b>											
<b>Blank (AWE0321-BLK1)</b>					Prepared & Analyzed: 05/28/13						
Mercury	ND	0.010		mg/kg							
<b>LCS (AWE0321-BS1)</b>					Prepared & Analyzed: 05/28/13						
Mercury	0.382	0.010		mg/kg	0.400		95.6	80-120			
<b>LCS Dup (AWE0321-BSD1)</b>					Prepared & Analyzed: 05/28/13						
Mercury	0.382	0.010		mg/kg	0.400		95.6	80-120	0.00	20	
<b>Matrix Spike (AWE0321-MS1)</b>					Source: 1305388-01		Prepared & Analyzed: 05/28/13				
Mercury	0.490	0.010		mg/kg	0.400	0.0140	119	75-125			
<b>Matrix Spike Dup (AWE0321-MSD1)</b>					Source: 1305388-01		Prepared & Analyzed: 05/28/13				
Mercury	0.463	0.010		mg/kg	0.400	0.0140	112	75-125	5.54	20	
<b>Batch AWE0336 - EPA 6010B</b>											
<b>Blank (AWE0336-BLK1)</b>					Prepared: 05/29/13 Analyzed: 05/30/13						
Antimony	ND	1.0		mg/kg							
Arsenic	ND	1.0		"							
Barium	ND	2.0		"							
Beryllium	ND	0.5		"							
Cadmium	ND	1.0		"							
Calcium	ND	10.0		"							
Chromium	ND	1.0		"							
Cobalt	ND	5.0		"							
Copper	ND	2.0		"							
Lead	ND	1.0		"							
Molybdenum	ND	1.0		"							
Nickel	ND	1.0		"							
Magnesium	ND	5.0		"							
Selenium	ND	2.0		"							
Silver	ND	1.0		"							
Thallium	ND	2.0		"							
Vanadium	ND	2.0		"							
Zinc	ND	2.0		"							
Potassium	ND	20.0		"							
Sodium	ND	20.0		"							

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Project: Lime Kiln  
Project Number: [none]  
Project Manager: Leticia Valadez

Date Reported:  
06/11/13 12:28

### Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch AWE0336 - EPA 6010B

##### LCS (AWE0336-BS1)

Prepared: 05/29/13 Analyzed: 05/30/13

Antimony	98.6	1.0		mg/kg	100		98.6	80-120			
Arsenic	98.5	1.0		"	100		98.5	80-120			
Barium	103	2.0		"	100		103	80-120			
Beryllium	98.7	0.5		"	100		98.7	80-120			
Cadmium	96.7	1.0		"	100		96.7	80-120			
Chromium	102	1.0		"	100		102	80-120			
Calcium	107	10.0		"	100		107	80-120			
Cobalt	100	5.0		"	100		100	80-120			
Copper	103	2.0		"	100		103	80-120			
Lead	98.5	1.0		"	100		98.5	80-120			
Molybdenum	103	1.0		"	100		103	80-120			
Nickel	99.5	1.0		"	100		99.5	80-120			
Magnesium	99.8	5.0		"	100		99.8	80-120			
Selenium	94.6	2.0		"	100		94.6	80-120			
Silver	97.5	1.0		"	100		97.5	80-120			
Thallium	97.6	2.0		"	100		97.6	80-120			
Vanadium	103	2.0		"	100		103	80-120			
Zinc	96.2	2.0		"	100		96.2	80-120			
Potassium	999	20.0		"	1000		99.9	80-120			
Sodium	108	20.0		"	100		108	80-120			

##### LCS Dup (AWE0336-BSD1)

Prepared: 05/29/13 Analyzed: 05/30/13

Antimony	99.1	1.0		mg/kg	100		99.1	80-120	0.445	25	
Arsenic	99.3	1.0		"	100		99.3	80-120	0.839	25	
Barium	102	2.0		"	100		102	80-120	0.489	25	
Beryllium	98.7	0.5		"	100		98.7	80-120	0.00	25	
Cadmium	97.3	1.0		"	100		97.3	80-120	0.588	25	
Calcium	104	10.0		"	100		104	80-120	2.37	25	
Chromium	103	1.0		"	100		103	80-120	0.293	25	
Cobalt	101	5.0		"	100		101	80-120	0.496	25	
Copper	102	2.0		"	100		102	80-120	0.781	25	
Lead	99.0	1.0		"	100		99.0	80-120	0.567	25	
Molybdenum	104	1.0		"	100		104	80-120	0.387	25	
Nickel	100	1.0		"	100		100	80-120	0.491	25	
Magnesium	101	5.0		"	100		101	80-120	1.13	25	
Selenium	95.2	2.0		"	100		95.2	80-120	0.664	25	
Silver	96.0	1.0		"	100		96.0	80-120	1.55	25	
Thallium	98.9	2.0		"	100		98.9	80-120	1.34	25	
Vanadium	101	2.0		"	100		101	80-120	1.27	25	

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Project: Lime Kiln  
Project Number: [none]  
Project Manager: Leticia Valadez

Date Reported:  
06/11/13 12:28

### Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch AWE0336 - EPA 6010B

##### LCS Dup (AWE0336-BSD1)

Prepared: 05/29/13 Analyzed: 05/30/13

Zinc	97.2	2.0		mg/kg	100	97.2	80-120	1.01	25	
Potassium	995	20.0		"	1000	99.5	80-120	0.411	25	
Sodium	105	20.0		"	100	105	80-120	3.09	25	

##### Matrix Spike (AWE0336-MS1)

Source: 1305393-01

Prepared: 05/29/13 Analyzed: 05/30/13

Antimony	29.5	1.0		mg/kg	100	0.608	28.9	75-125		QL-01
Arsenic	104	1.0		"	100	5.84	98.2	75-125		
Barium	186	2.0		"	100	90.0	96.3	75-125		
Beryllium	90.1	0.5		"	100	0.174	89.9	75-125		
Cadmium	97.6	1.0		"	100	1.57	96.0	75-125		
Chromium	110	1.0		"	100	27.3	82.7	75-125		
Cobalt	84.5	5.0		"	100	5.68	78.8	75-125		
Copper	126	2.0		"	100	34.7	90.9	75-125		
Lead	88.0	1.0		"	100	14.1	73.9	75-125		QL-01
Molybdenum	82.1	1.0		"	100	1.10	81.0	75-125		
Nickel	120	1.0		"	100	49.8	70.0	75-125		QL-01
Magnesium	7270	5.0		"	100	6450	820	75-125		QL-01
Selenium	93.3	2.0		"	100	ND	93.3	75-125		
Silver	90.2	1.0		"	100	ND	90.2	75-125		
Thallium	65.0	2.0		"	100	ND	65.0	75-125		QL-01
Vanadium	111	2.0		"	100	29.1	81.7	75-125		
Zinc	158	2.0		"	100	81.2	76.6	75-125		
Potassium	1940	20.0		"	1000	704	124	75-125		
Sodium	345	20.0		"	100	210	135	75-125		QL-01

##### Matrix Spike (AWE0336-MS2)

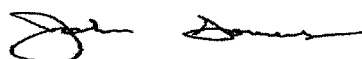
Source: 1305393-01

Prepared: 05/29/13 Analyzed: 06/05/13

Calcium	21800	10.0		mg/kg	100	ND	NR	75-125		QL-01
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Project: Lime Kiln  
Project Number: [none]  
Project Manager: Leticia Valadez

Date Reported:  
06/11/13 12:28

**Total Recoverable Metals - Quality Control**

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AWE0336 - EPA 6010B**

<b>Matrix Spike Dup (AWE0336-MSD1)</b>		<b>Source: 1305393-01</b>		<b>Prepared: 05/29/13</b>		<b>Analyzed: 05/30/13</b>					
Antimony	27.6	1.0		mg/kg	100	0.608	27.0	75-125	6.59	25	QL-01
Arsenic	102	1.0		"	100	5.84	95.9	75-125	2.24	25	
Barium	174	2.0		"	100	90.0	84.1	75-125	6.77	25	
Beryllium	87.6	0.5		"	100	0.174	87.4	75-125	2.86	25	
Cadmium	94.9	1.0		"	100	1.57	93.3	75-125	2.76	25	
Chromium	106	1.0		"	100	27.3	78.5	75-125	3.89	25	
Cobalt	82.8	5.0		"	100	5.68	77.1	75-125	2.08	25	
Copper	123	2.0		"	100	34.7	88.7	75-125	1.77	25	
Lead	87.4	1.0		"	100	14.1	73.3	75-125	0.718	25	QL-01
Molybdenum	79.8	1.0		"	100	1.10	78.7	75-125	2.80	25	
Nickel	124	1.0		"	100	49.8	74.5	75-125	3.69	25	QL-01
Selenium	90.3	2.0		"	100	ND	90.3	75-125	3.34	25	
Magnesium	7160	5.0		"	100	6450	708	75-125	1.55	25	QL-01
Silver	88.9	1.0		"	100	ND	88.9	75-125	1.48	25	
Thallium	62.5	2.0		"	100	ND	62.5	75-125	3.83	25	QL-01
Vanadium	110	2.0		"	100	29.1	80.9	75-125	0.725	25	
Zinc	155	2.0		"	100	81.2	73.9	75-125	1.73	25	QL-01
Potassium	1880	20.0		"	1000	704	118	75-125	2.98	25	
Sodium	313	20.0		"	100	210	102	75-125	9.88	25	

<b>Matrix Spike Dup (AWE0336-MSD2)</b>		<b>Source: 1305393-01</b>		<b>Prepared: 05/29/13</b>		<b>Analyzed: 06/05/13</b>					
Calcium	22000	10.0		mg/kg	100	ND	NR	75-125	0.685	25	QL-01

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Project: Lime Kiln  
Project Number: [none]  
Project Manager: Leticia Valadez

Date Reported:  
06/11/13 12:28

**Notes and Definitions**

QL-01 Sample results for the QC batch were accepted based on LCS/LCSD percent recoveries and RPD values.

ND Analyte not detected at reporting limit.

NR Not reported

**Analysis Method**

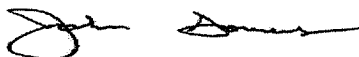
EPA 8260, EPA 8021/8015M  
EPA 8270, EPA 8081, EPA 8082, EPA 8141, EPA 8015M (extractable)  
Metals  
TCLP  
Not Specified

**Prep Method**

EPA 5030B  
Water - EPA 3510C, Soil- EPA 3550B  
Water- 3005A, Soil- 3050B  
EPA 1311  
Same as Analysis Method

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Project: Lime Kiln  
Project Number: [none]  
Project Manager: Leticia Valadez

Date Reported:  
06/11/13 12:28

### Sample Integrity

WORK ORDER 305393

Date Received: 5/24/13

**Section 1 - Sample Arrival Info.**

Sample Transport:  CONTRACT  UPS  USPS  Walk-In  EXCEL-CHEM Courier  Fed-Ex  Other \_\_\_\_\_

Transported in:  Ice Chest  Box  I-land

Describe type of packing materials:  Bubble Wrap  Foam  Packing Peanuts  Paper  Other \_\_\_\_\_

Has chilling process begun?  Y  N Samples Received:  Chilled to Touch  Ambient  On Ice

Temperature of Samples (°C): 27 Ice Chest Temperature(s) (°C): N/A

**Section 2 - Bottle/Analysis Info.**

	Yes	No	N/A	Comments
Did all bottles arrive unbroken and intact?	<input checked="" type="checkbox"/>			
Did all bottle labels agree with COC?		<input checked="" type="checkbox"/>		Two times on COC for "Confidence"
Were correct containers used for the tests requested?	<input checked="" type="checkbox"/>			Label: Use time from "Lime"
Were correct preservations used for the tests requested?			<input checked="" type="checkbox"/>	Waste" label for both samples. 0930
Was a sufficient amount of sample sent for tests indicated?	<input checked="" type="checkbox"/>			
Were bubbles present in VOA Vials? (Volatile Methods Only)			<input checked="" type="checkbox"/>	

**Section 3 - Summa/Flow regulator Info.**

Used Summa#: \_\_\_\_\_

Unused Summa#: N/A

Cleaning Summa#: \_\_\_\_\_

Regulator#: \_\_\_\_\_

Was there any visual damage to summa canisters or flow regulators? Explain: \_\_\_\_\_

**Section 4 - COC Info.**

	Completed		Ink From Container	Completed		Comments
	Yes	No		Yes	No	
Was COC Received	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Date Sampled	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Time Sampled		<input checked="" type="checkbox"/>	0930		<input checked="" type="checkbox"/>	
Sample ID	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Rush TAT		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
Analysis Requested				<input checked="" type="checkbox"/>		
Sample arrived within holding time				<input checked="" type="checkbox"/>		
Any hold times less than 72 hrs					<input checked="" type="checkbox"/>	
Client Name				<input checked="" type="checkbox"/>		
Address/Telephone #				<input checked="" type="checkbox"/>		

**Section 5 - Comments / Discrepancies**

Was Client notified of discrepancies? Yes  No  N/A \_\_\_\_\_ Notified by \_\_\_\_\_

Explanations / Comments: \_\_\_\_\_

Samples Labeled by: CC  
 Bin #: 513  
 COC Scanned/Attached by: CC  
 Sample labels reviewed by: \_\_\_\_\_

Filled [Signature] Date: 5/24/13  
 Out by: [Signature] Time: 1705

[Signature]

## Excelchem Environmental Labs

RWQC Central Valley  
11020 Sun Center Dr. #200  
Rancho Cordova, CA 95670

Project: Lime Kiln  
Project Number: [none]  
Project Manager: Leticia Valadez

Date Reported:  
06/11/13 12:28

### Sample Integrity

WORK ORDER 305393

Date Received: 5/24/13

**Section 1 - Sample Arrival Info.**

Sample Transport:  ONERAC  UPS  USPS  Walk-in  EXCELCHEM Courier  Fed-Ex  Other: \_\_\_\_\_

Transported In:  Ice Chest  Box  Hand

Describe type of packing materials:  Bubble Wrap  Foam  Packing Peanuts  Paper  Other: \_\_\_\_\_

Has chilling process begun?  Y  N  Samples Received  Chilled to Touch  Ambient  On Ice

Temperature of Samples (°C): 27 Ice Chest Temperature(s) (°C): N/A

**Section 2 - Bottle/Analysis Info.**

	Yes	No	N/A	Comments
Did all bottles arrive unbroken and intact?	<input checked="" type="checkbox"/>			
Did all bottle labels agree with COC?		<input checked="" type="checkbox"/>		
Were correct containers used for the tests requested?	<input checked="" type="checkbox"/>			
Were correct preservations used for the tests requested?			<input checked="" type="checkbox"/>	No times on COC nor "Confidential" label. Use time from time wasted label for both samples: 0930
Was a sufficient amount of sample sent for tests indicated?	<input checked="" type="checkbox"/>			
Were bubbles present in VOA Vials? (Volatile Methods Only)			<input checked="" type="checkbox"/>	

**Section 3 - Summa/Flow regulator Info.**

Used Summa#: \_\_\_\_\_

Unused Summa#: \_\_\_\_\_

Cleaning Summa#: \_\_\_\_\_

Regulator#: \_\_\_\_\_

Was there any visual damage to summa canisters or flow regulators? Explain: N/A

**Section 4 - COC Info.**

	Completed		Info from Container	Completed		Comments
	Yes	No		Yes	No	
Was COC Received	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Date Sampled	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Time Sampled		<input checked="" type="checkbox"/>	0930		<input checked="" type="checkbox"/>	
Sample ID	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Rush FAT		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
Analysis Requested				<input checked="" type="checkbox"/>		
Samples arrived within holding time				<input checked="" type="checkbox"/>		
Any hold times less than 72 hrs					<input checked="" type="checkbox"/>	
Client Name				<input checked="" type="checkbox"/>		
Address/Telephone #				<input checked="" type="checkbox"/>		

**Section 5 - Comments / Discrepancies**

Was Client notified of discrepancies: Yes  No  N/A \_\_\_\_\_ Notified by: \_\_\_\_\_

Explanations / Comments: sample may burn skin per Leticia @ waterboard

Samples Labeled by: CV

Bin As: 513

COC Scanned/Attached by: CV

Sample labels reviewed by: CV

Filled: \_\_\_\_\_ Date: 5/24/13

Out by: \_\_\_\_\_ Time: 1700

Excelchem Environmental Lab.

*[Signature]*

Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

