



14 February 2018

Professional Utility Services, Inc.  
Attn: Luis Estrada  
1217 Eady Avenue  
Calexico, CA 92231

**EMA Log #: 18B0117**

**Project Name: Drinking Water Lead in Schools**

**Project Desc./#: Brawley Union High School / February 5, 2018**

Enclosed are the results of analyses for samples received by the laboratory on 02/05/18 10:28. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that this data is in compliance both technically and for completeness.

A handwritten signature in black ink, appearing to read 'Dan Verdon', is written over a faint, circular stamp.

**Dan Verdon**  
**Laboratory Director**

CA ELAP Certification #: 2564

Client Name: Professional Utility Services, Inc.  
Project Name: Drinking Water Lead in Schools

EMA Log #: 18B0117

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BUHS # 01	18B0117-01	Drinking Water	02/05/18 05:45	02/05/18 10:28
BUHS # 02	18B0117-02	Drinking Water	02/05/18 05:57	02/05/18 10:28
BUHS # 03	18B0117-03	Drinking Water	02/05/18 05:55	02/05/18 10:28
BUHS # 04	18B0117-04	Drinking Water	02/05/18 06:04	02/05/18 10:28
BUHS # 05	18B0117-05	Drinking Water	02/05/18 06:06	02/05/18 10:28
BUHS # 06	18B0117-06	Drinking Water	02/05/18 06:08	02/05/18 10:28
BUHS # 07	18B0117-07	Drinking Water	02/05/18 06:10	02/05/18 10:28
BUHS # 08	18B0117-08	Drinking Water	02/05/18 06:12	02/05/18 10:28
BUHS # 09	18B0117-09	Drinking Water	02/05/18 06:13	02/05/18 10:28
BUHS # 10	18B0117-10	Drinking Water	02/05/18 06:20	02/05/18 10:28
BUHS # 11	18B0117-11	Drinking Water	02/05/18 06:22	02/05/18 10:28
BUHS # 12	18B0117-12	Drinking Water	02/05/18 06:25	02/05/18 10:28

*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.*



Client Name: Professional Utility Services, Inc.  
 Project Name: Drinking Water Lead in Schools

EMA Log #: 18B0117

**Total Metals by EPA 200 Series Methods**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>BUHS # 01 (18B0117-01) Drinking Water</b> <b>Sampled: 02/05/18 05:45</b> <b>Received: 02/05/18 10:28</b>									
Copper	796	10.0	ug/l	1	8020856	02/08/18	02/09/18	EPA 200.8	
Lead	ND	5.00	"	"	"	"	"	"	
<b>BUHS # 02 (18B0117-02) Drinking Water</b> <b>Sampled: 02/05/18 05:57</b> <b>Received: 02/05/18 10:28</b>									
Copper	595	10.0	ug/l	1	8020856	02/08/18	02/09/18	EPA 200.8	
Lead	ND	5.00	"	"	"	"	"	"	
<b>BUHS # 03 (18B0117-03) Drinking Water</b> <b>Sampled: 02/05/18 05:55</b> <b>Received: 02/05/18 10:28</b>									
Copper	74.8	10.0	ug/l	1	8020856	02/08/18	02/09/18	EPA 200.8	
Lead	ND	5.00	"	"	"	"	"	"	
<b>BUHS # 04 (18B0117-04) Drinking Water</b> <b>Sampled: 02/05/18 06:04</b> <b>Received: 02/05/18 10:28</b>									
Copper	809	10.0	ug/l	1	8020856	02/08/18	02/09/18	EPA 200.8	
Lead	ND	5.00	"	"	"	"	"	"	
<b>BUHS # 05 (18B0117-05) Drinking Water</b> <b>Sampled: 02/05/18 06:06</b> <b>Received: 02/05/18 10:28</b>									
Copper	668	10.0	ug/l	1	8020856	02/08/18	02/09/18	EPA 200.8	
Lead	ND	5.00	"	"	"	"	"	"	
<b>BUHS # 06 (18B0117-06) Drinking Water</b> <b>Sampled: 02/05/18 06:08</b> <b>Received: 02/05/18 10:28</b>									
Copper	731	10.0	ug/l	1	8020856	02/08/18	02/09/18	EPA 200.8	
Lead	ND	5.00	"	"	"	"	"	"	
<b>BUHS # 07 (18B0117-07) Drinking Water</b> <b>Sampled: 02/05/18 06:10</b> <b>Received: 02/05/18 10:28</b>									
Copper	1120	100	ug/l	10	8020856	02/08/18	02/09/18	EPA 200.8	
Lead	ND	5.00	"	1	"	"	02/09/18	"	

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.

Client Name: Professional Utility Services, Inc.  
 Project Name: Drinking Water Lead in Schools

EMA Log #: 18B0117

**Total Metals by EPA 200 Series Methods**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>BUHS # 08 (18B0117-08) Drinking Water</b> <b>Sampled: 02/05/18 06:12</b> <b>Received: 02/05/18 10:28</b>									
Copper	730	10.0	ug/l	1	8020856	02/08/18	02/09/18	EPA 200.8	
Lead	ND	5.00	"	"	"	"	"	"	
<b>BUHS # 09 (18B0117-09) Drinking Water</b> <b>Sampled: 02/05/18 06:13</b> <b>Received: 02/05/18 10:28</b>									
Copper	1080	100	ug/l	10	8020856	02/08/18	02/09/18	EPA 200.8	
Lead	ND	5.00	"	1	"	"	02/09/18	"	
<b>BUHS # 10 (18B0117-10) Drinking Water</b> <b>Sampled: 02/05/18 06:20</b> <b>Received: 02/05/18 10:28</b>									
Copper	358	10.0	ug/l	1	8020856	02/08/18	02/09/18	EPA 200.8	
Lead	ND	5.00	"	"	"	"	"	"	
<b>BUHS # 11 (18B0117-11) Drinking Water</b> <b>Sampled: 02/05/18 06:22</b> <b>Received: 02/05/18 10:28</b>									
Copper	245	10.0	ug/l	1	8020856	02/08/18	02/09/18	EPA 200.8	
Lead	ND	5.00	"	"	"	"	"	"	
<b>BUHS # 12 (18B0117-12) Drinking Water</b> <b>Sampled: 02/05/18 06:25</b> <b>Received: 02/05/18 10:28</b>									
Copper	368	10.0	ug/l	1	8020856	02/08/18	02/09/18	EPA 200.8	
Lead	ND	5.00	"	"	"	"	"	"	

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.



Client Name: Professional Utility Services, Inc.  
 Project Name: Drinking Water Lead in Schools

EMA Log #: 18B0117

**Total Metals by EPA 200 Series Methods - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 8020856</b>										
<b>Blank (8020856-BLK1)</b>				Prepared & Analyzed: 02/08/18						
Lead	ND	5.00	ug/l							
Copper	ND	10.0	"							
<b>LCS (8020856-BS1)</b>				Prepared & Analyzed: 02/08/18						
Lead	51.4	5.00	ug/l	50.0		103	85-115			
Copper	46.4	10.0	"	50.0		93	85-115			
<b>LCS Dup (8020856-BSD1)</b>				Prepared & Analyzed: 02/08/18						
Lead	51.1	5.00	ug/l	50.0		102	85-115	0.4	20	
Copper	46.8	10.0	"	50.0		94	85-115	0.8	20	
<b>Duplicate (8020856-DUP1)</b>		<b>Source: 18B0256-17</b>		Prepared & Analyzed: 02/08/18						
Lead	3.90	5.00	ug/l		3.75			4	20	
Copper	266	10.0	"		278			4	20	
<b>Matrix Spike (8020856-MS1)</b>		<b>Source: 18B0256-17</b>		Prepared & Analyzed: 02/08/18						
Lead	53.9	5.00	ug/l	50.0	3.75	100	70-130			
Copper	310	10.0	"	50.0	278	66	70-130			QM-4X
<b>Matrix Spike (8020856-MS2)</b>		<b>Source: 18B0117-01</b>		Prepared & Analyzed: 02/08/18						
Lead	51.1	5.00	ug/l	50.0	0.490	101	70-130			
Copper	771	10.0	"	50.0	796	NR	70-130			QM-4X
<b>Matrix Spike Dup (8020856-MSD1)</b>		<b>Source: 18B0256-17</b>		Prepared & Analyzed: 02/08/18						
Lead	54.2	5.00	ug/l	50.0	3.75	101	70-130	0.4	20	
Copper	313	10.0	"	50.0	278	71	70-130	0.8	20	

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.

Client Name: Professional Utility Services, Inc.  
Project Name: Drinking Water Lead in Schools

EMA Log #: 18B0117

### Notes and Definitions

- QM-4X The spike recovery was outside of the QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

*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.*

4340 Viewridge Ave., Ste. A - San Diego, CA 92123 - Phone (858) 560-7717 - Fax (858) 560-7763

EMA LOG #: \_\_\_\_\_  
 Client: Professional Utility Services, Inc.  
 Attn: Luis Estrada  
 Samplers(s): Estrada/Saldana  
 Address: 1217 Eady Ave.  
Calexico, Ca 92231  
 Phone: 760.235.6003 Fax: \_\_\_\_\_  
 Email: Professional.utility.Services@gmail.com  
 Billing Address: Same

Project ID: Brawley Union High School PO #: \_\_\_\_\_  
 Project #: \_\_\_\_\_

ID #	Client Sample ID	Sample Date	Sample Time	Sample Matrix	Container # / Type
1	BKHS #01	2/5	5:45a	DW	
2	BKHS #02	2/5	5:57	DW	
3	BKHS #03	2/5	5:53	DW	
4	BKHS #04	2/5	6:04	DW	
5	BKHS #05	2/5	6:06	DW	
6	BKHS #06	2/5	6:08	DW	
7	BKHS #07	2/5	6:10	DW	
8	BKHS #08	2/5	6:12	DW	
9	BKHS #09	2/5	6:13	DW	
10	BKHS #10	2/5	6:20	DW	

Matrix Codes: A = Air, DW = Drinking Water, GW = Groundwater, SW = Storm Water  
 WW = Wastewater, S = Soil, SED = Sediment, SD = Solid, T = Tissue, O = Oil, L = Liquid

Shipped By:  Counter  UPS  FedEx  USPS  Client Drop Off  Other  
 Turn-Around-Time:  Same Day  1 day  2 day  3 day  4 day  5 day  STD (7 day)

Reporting Requirements:  Fax  PDF  Excel  Geotracker/EDF  Hard Copy  EDT  
 Sample Disposal:  Laboratory  Return to Client: P/U or Delivery  Archive  
 Sample Integrity: Correct Containers:  Yes  No N/A  
 Custody Seals Intact:  Yes  No N/A  
 Temp @ Receipt: 10 C  
 COC/Labels Agreed:  Yes  No N/A  
 Sampled By: Client/EMA Autosampler

Project/Sample Comments:

Requested Analysis										REQUIREMENTS		DATE/TIME		RECEIVED BY			
<input type="checkbox"/> Oil & Grease <input type="checkbox"/> 413.1 <input type="checkbox"/> 413.2 <input type="checkbox"/> 164	<input type="checkbox"/> 8015 (TPH) <input type="checkbox"/> Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Ext	<input type="checkbox"/> 62/8260 (VOC) Full BTXE MTBE Oxy Nap	<input type="checkbox"/> 65/8270 (SVOC) <input type="checkbox"/> PAH only	<input type="checkbox"/> 608/8081 (Organochlorine Pesticides)	<input type="checkbox"/> 608/8082 (Polychlorinated Biphenyls)	<input type="checkbox"/> 8141 (Organophosphorus Pesticides)	<input type="checkbox"/> TBT (Organotin Compounds)	<input type="checkbox"/> pH <input type="checkbox"/> EC <input type="checkbox"/> TSS <input type="checkbox"/> TDS	<input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> TKN <input type="checkbox"/> NH3	<input type="checkbox"/> CAC Title 22/CAM17 Metals <input type="checkbox"/> TLC <input type="checkbox"/> STLC	<input type="checkbox"/> TCLP (RCRA) <input type="checkbox"/> Metals <input type="checkbox"/> Organics	<input type="checkbox"/> Coliform, <input type="checkbox"/> Total (MTF) <input type="checkbox"/> Fecal (MTF)	<input type="checkbox"/> Coliform, T+E, Coli <input type="checkbox"/> P/A <input type="checkbox"/> Enumeration	<input type="checkbox"/> Enterococcus, <input type="checkbox"/> MTF <input type="checkbox"/> Enterolert	<input type="checkbox"/> Heterotrophic Plate Count (HPC)	<input type="checkbox"/> BOD <input type="checkbox"/> COD <input type="checkbox"/> Cyanide	<u>Lead: Copper</u>
Signature: <u>Luis Estrada</u>										Signature: <u>[Signature]</u>		Signature: <u>[Signature]</u>					
Print: <u>Luis E</u>										Print: <u>[Print]</u>		Print: <u>[Print]</u>					
Company: <u>PUS</u>										Company: <u>[Company]</u>		Company: <u>[Company]</u>					
Signature: _____										Signature: _____		Signature: _____					
Print: _____										Print: _____		Print: _____					
Company: _____										Company: _____		Company: _____					

<sup>1</sup> Additional costs may apply. Please note there is a \$35 minimum charge for all clients.  
<sup>2</sup> EMA reserves the right to return any samples that do not match our waste profile.  
 NOTE: By relinquishing samples to EMA, Inc., client agrees to pay for the services requested on this COC form and any additional analyses performed on this project. Payment for services is due within 30 days from date of invoice. Samples will be disposed of 7 days after report has been finalized unless otherwise noted. All work is subject to EMA's terms and conditions.

4340 Viewridge Ave., Ste. A - San Diego, CA 92123 - Phone (858) 560-7717 - Fax (858) 560-7763

**EMA LOG #:** 18B0117

**Client:** Professional Utility Services, Inc.

**Attn:** Luis Estrada

**Samplers(s):** ESTRADA / Saldana

**Address:** 1217 Eady Ave, Calexico, CA 92231

**Phone:** 760.235.6003 **Fax:**

**Email:** professional.utility.services@gmail.com

**Billing Address:** Same

**Project ID:** Brawley Union High School

**Project #:** PO #:

ID #	Client Sample ID	Sample Date	Sample Time	Sample Matrix	Container # / Type
1	BUTS # 11	2/5	6:22	DW	
2	BUTS # 12	2/5	6:25	DW	
3					
4					
5					
6					
7					
8					
9					
10					

**Matrix Codes:** A = Air, DW = Drinking Water, GW = Groundwater, SW = Storm Water  
 WW = Wastewater, S = Soil, SED = Sediment, SD = Solid, T = Tissue, O = Oil, L = Liquid

**Shipped By:**  Courier  UPS  FedEx  USPS  Client Drop Off  Other

**Turn-Around-Time:**  Same Day  1 day  2 day  3 day  4 day  5 day  STD (7 day)

**Reporting Requirements:**  Fax  PDF  Excel  Geotracker/EDF  Hard Copy  EDT

**Sample Disposal:**  By Laboratory  Return to Client: P/U or Delivery  Archive

**Sample Integrity**

Correct Containers: Yes No N/A

Custody Seals Intact: Yes No  N/A

COC/Labels Agreed: Yes No N/A

Temp @ Receipt: 10°C

Sampled By: Client EMA Autosampler

**Requested Analysis**

Requested Analysis	DATE/TIME	RECEIVED BY
Oil & Grease <input type="checkbox"/> 413.1 <input type="checkbox"/> 413.2 <input type="checkbox"/> 164		
8015 (TPH) <input type="checkbox"/> Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Ext		
624/8260 (VOC) Full BTXE MTBE Oxy Nap		
625 / 8270 (SVOC) <input type="checkbox"/> PAH only		
608 / 8081 (Organochlorine Pesticides)		
608 / 8082 (Polychlorinated Biphenyls)		
8141 (Organophosphorus Pesticides)		
TBT (Organotin Compounds)		
pH <input type="checkbox"/> EC <input type="checkbox"/> TSS <input type="checkbox"/> TDS		
Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> TKN <input type="checkbox"/> NH3		
CAC Title 22/CAM17 Metals <input type="checkbox"/> TLC <input type="checkbox"/> STLC		
TCLP (RCRA) <input type="checkbox"/> Metals <input type="checkbox"/> Organics		
Cd Cr Cu Pb Ni Ag Zn <input type="checkbox"/> Dissolved		
Coliform, <input type="checkbox"/> Total (MTF) <input type="checkbox"/> Fecal (MTF)		
Collet, T+E, Coli <input type="checkbox"/> P/A <input type="checkbox"/> Enumeration		
Enterococcus, <input type="checkbox"/> MTF <input type="checkbox"/> Enterolert		
Heterotrophic Plate Count (HPC)		
BOD <input type="checkbox"/> COD <input type="checkbox"/> Cyanide		

**Signature:** Luis Estrada

**Print:** Luis Estrada

**Company:** EMA

**Signature:** [Signature]

**Print:** [Print Name]

**Company:** [Company Name]

**Project/Sample Comments:**

**Additional costs may apply. Please note there is a \$35 minimum charge for all clients.**

**EMA reserves the right to return any samples that do not match our waste profile.**

**NOTE:** By relinquishing samples to EMA, Inc., client agrees to pay for the services requested on this COC form and any additional analyses performed on this project. Payment for services is due within 30 days from date of invoice. Samples will be disposed of 7 days after report has been finalized unless otherwise noted. All work is subject to EMA's terms and conditions.