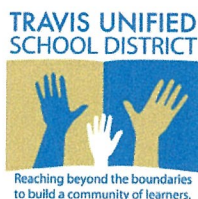


Drinking Water Quality Assessment Report

Prepared for:

Travis Unified School District



Project Sites:

Cambridge Elementary School, Center Elementary School, Foxboro Elementary School, Scandia Elementary School, Golden West Middle School, Travis Education Center, Travis Elementary School, and Vanden High School

Presented to:

Mr. Tracey Canady
Supervisor of Operations, Grounds and Maintenance
Travis Unified School District
2751 De Ronde Drive
Fairfield, CA 94533

Prepared by:



November 30, 2018

Project No. A2730



1175 Nimitz Avenue, Building 112, Suite 205, Vallejo, CA 94592
Phone (707) 515-0860 • Fax (855) 710-6294

November 30, 2018

Project No. A2730

Mr. Tracey Canady
Supervisor of Operations, Grounds and Maintenance
Travis Unified School District
2751 De Ronde Drive
Fairfield, CA 94533

Re: Drinking Water Quality Assessment Report for Eight District Sites

Dear Mr. Canady,

Aurora Environmental Services, Inc. (Aurora ESI) has completed the Drinking Water Quality Assessment for eight Travis Unified School District (USD) buildings: Cambridge Elementary School, Center Elementary School, Foxboro Elementary School, Scandia Elementary School, Golden West Middle School, Travis Education Center, Travis Elementary School, and Vanden High School. The assessment sampling was conducted on October 15, 2018 in accordance with Aurora ESI's project number A2730. This Drinking Water Quality Assessment Report provides a brief project introduction and scope of work; summary of sampling activities, analytical parameters, and methodologies; and a discussion of findings of drinking water quality. There are two Attachments: **Attachment 1**, Site Maps with Sample Locations, and **Attachment 2**, Laboratory Analytical Reports.

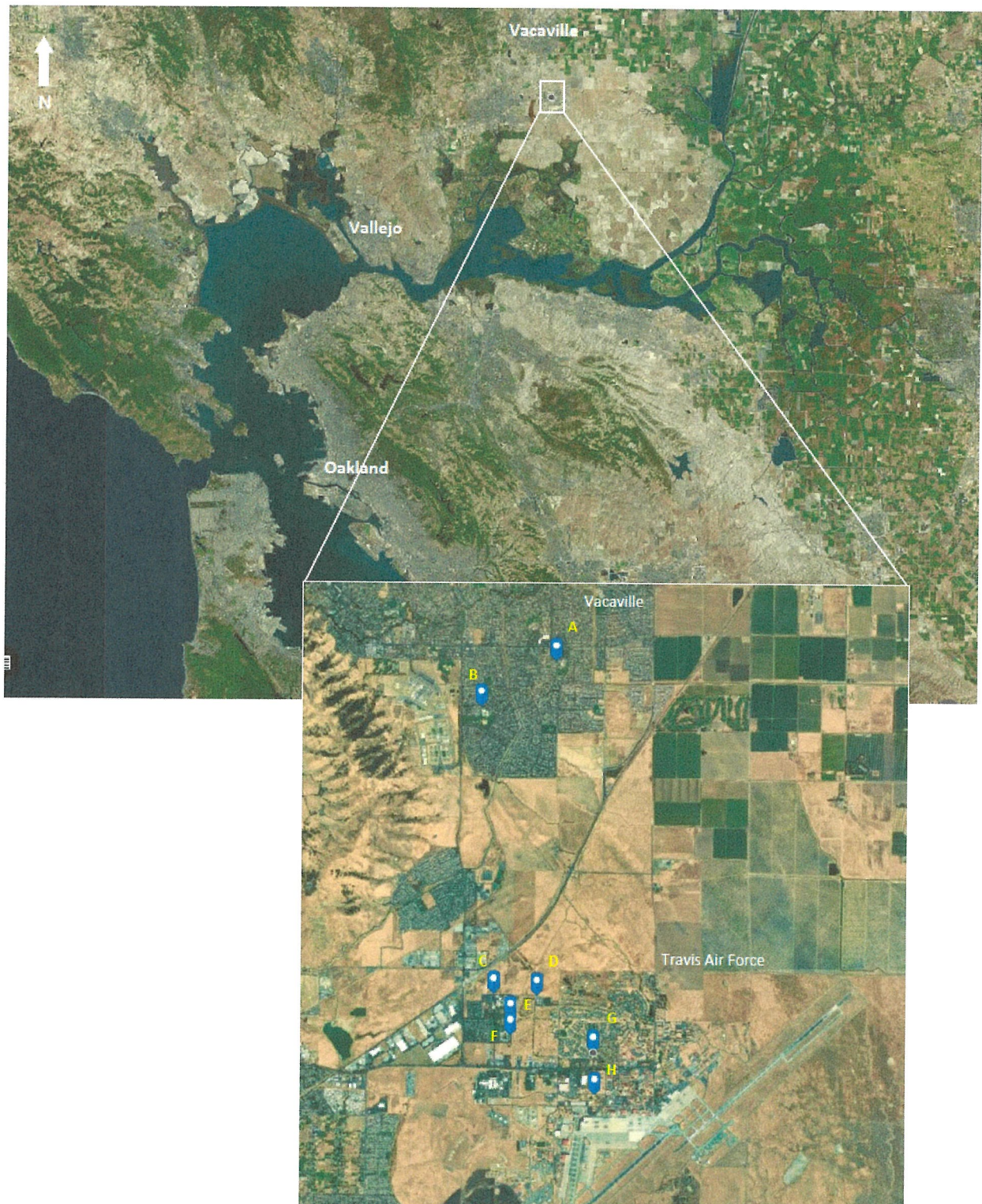
1.0 Introduction and Scope of Work

Travis USD engaged Aurora ESI to perform a limited drinking water quality assessment at eight (8) discrete academic buildings. The drinking water quality assessment was conducted for the presence of metals (arsenic, cadmium, chromium, copper, lead, nickel, and zinc); total coliform and *E. coli*; chlorine; and pH. The eight sample locations, labeled Sites A-H, were (in order sampled):

- **Site A** - Cambridge Elementary School, 100 Cambridge Drive, Vacaville, CA 95687
- **Site B** -Foxboro Elementary School, 600 Morning Glory Drive, Vacaville, CA 95687
- **Site C** -Vanden High School, 2951 Markeley Ln, Fairfield, CA 94533
- **Site D** -Center Elementary School, 3101 Markeley Ln, Fairfield, CA 94533
- **Site E** -Travis Education Center, 2775 De Ronde Dr, Fairfield, CA 94533
- **Site F** -Golden West Middle School, 2651 De Ronde Dr, Fairfield, CA 94533
- **Site G** -Travis Elementary School, 100 Hickam Ave, Travis AFB, CA 94535
- **Site H** -Scandia Elementary School, 100 Broadway St, Fairfield, CA 94535

As shown by **Figure 1 - Site Location Map**, these eight sites are in relatively close proximity to each other. The entire project was estimated to require one (1) day for sampling, five (5) days for laboratory analytical turnaround time (TAT), and 45 days for report production. **Section 2.0** gives a summary of sampling activities and laboratory work.

Figure 1 – Site Location Map



2.0 Assessment Sampling and Analysis

The sample locations were prechosen by the District. Every sample was collected from a drinking fountain, with the exception of Sample 10 at Travis Education Center, which was taken from a kitchen drinking water faucet. There were two sample collection points at each site, which were chosen by Aurora ESI:

- Site A (Cambridge Elementary School) – Samples **01**, drinking fountain inside the Office Building, and **02**, drinking fountain outside the Library
- Site B (Foxboro Elementary School) – Samples **03**, drinking fountain outside of Room A6, and **04**, drinking fountain outside of the Multi-Purpose Room
- Site C (Vanden High School) – Samples **05**, drinking fountain outside of the Gymnasium, and **06**, drinking fountain inside the Administration Building
- Site D (Center Elementary School) - Samples **07**, drinking fountain adjacent to the Book Room, and **08**, drinking fountain adjacent to the Multi-Purpose Room
- Site E (Travis Education Center) - Samples **09**, drinking fountain outside of the Kitchen between the Restrooms, and **10**, drinking water faucet in the Kitchen
- Site F (Golden West Middle School) - Samples **11**, drinking fountain outside of the Health Care Building inside the Atrium, and **12**, drinking fountain outside of the Multi-Purpose Room (Gym)
- Site G (Travis Elementary School) – Samples **13**, drinking fountain outside of the PTA room, and **14**, drinking fountain adjacent to the Multi-Purpose Room
- Site H (Scandia Elementary School) – Samples **15**, drinking fountain outside of the Main Building, and **16**, drinking fountain outside of Room K-2.

Attachment A contains 8 site maps showing the 16 collection points at the 8 sample site locations.

The drinking water was sampled in accordance with the United States Environmental Protection Agency (EPA) guidance document *Quick Guide to Drinking Water Sample Collection, Second Edition, Update*, Region 8 Laboratory, September 2016.

Because the sample holding time for pH is only 15 minutes, this parameter was analyzed in the field at each location using a pH field test meter. The meter used was an Oakton pHTestr® 30 Waterproof Pocket Tester with a resolution of 0.01 pH Standard Units (s.u.). It was calibrated at the start of sampling using two buffers. Calibration values and sample values were recorded.

The selected analytical laboratory provided the bottles with required preservatives. The metals samples were collected using 250 milliliter (mL) high density polyethylene (HDPE) bottles containing nitric acid (HNO₃) as preservative to ensure a pH <2 s.u. Total coliform and *E. coli* samples were collected into 125 milliliter (mL) plastic bottles containing sodium thiosulfate (Na₂S₂O₃) as preservative for chlorinated water samples. Chlorine samples were collected into 250-mL plastic bottles and required no preservative.

The samples were collected from drinking fountains at the eight sites, with the exception of the faucet sample from the Kitchen at Site E. To guard against cross-contamination between sites, a new pair of disposable nitrile gloves was donned by the samplers at each collection point within a site location, and the pH meter probe was rinsed at the same time. Each sample was collected directly from the fountain or faucet into the sample containers. Samples were immediately capped and placed on ice in an insulated cooler (<4°C = 39.2°F) and transported to the laboratory, Delta Environmental Laboratories of Benicia,

CA, by Aurora ESI. Delta Environmental Laboratories provides a full range of analytical testing services for drinking water and other sample matrices and is California State certified by the Environmental Laboratory Accreditation Program (ELAP), certification #1857. The samples were received by Delta Environmental Laboratories on October 15, the same day as collection.

Once at Delta Environmental Laboratories, the samples were either immediately analyzed (chlorine), analyzed the following day, October 16 (coliforms), or on October 18 (metals). The metals analyzed included arsenic, cadmium, chromium, copper, lead, nickel and zinc using analytical method EPA Method 200.7, where the reporting limits (RLs) were 10, 5, 5, 5, 5, 5, and 5 micrograms per liter ($\mu\text{g/L}$) (parts per billion), respectively. The total coliform samples were analyzed using Standard Method (SM) 9221 B, Standard Total Coliform Fermentation Technique, where the RL was 20 Most Probable Number (MPN)/100 milliliters (mL). The *E. coli* samples were analyzed using SM 9223 B, Enzyme Substrate Test (EST), where the units are present/absent. The chlorine sample was analyzed using SM4500-Cl G, where the RL was 0.0500 milligrams per liter (mg/L) (parts per million).

3.0 Assessment Results and Conclusions

Table 1 summarizes the analytical results of the Drinking Water Quality Assessment. The results of each parameter are compared to the Maximum Contaminant Levels (MCL) set by the United States Environmental Protection Agency (EPA) and the state of California. The lower of the two standards was used. MCLs are the highest level of a contaminant that is allowed in drinking water, for health reasons. Not all parameters analyzed have MCLs associated with them. For the parameters arsenic, cadmium, chromium, copper, lead, nickel, and the coliforms, no MCL was exceeded.

For zinc and pH, the government has set Secondary MCLs, which are not indicative of health risk but rather are guidelines for aesthetic considerations including taste, odor, color, and appearance, which when exceeded, may lead consumers to think the water is contaminated when it is not. The Secondary MCL for pH was exceeded for three of the eight sites, as indicated in Table 1.

Total chlorine does not have an MCL or secondary MCL but is measured by a Maximum Residual Disinfectant Level (MRDL) of 4.0 mg/L. None of the samples exceeded the MRDL for chlorine.

We hope this report provides you with all of the information you need for drinking water quality assessment at the eight sites. If you have any questions regarding this report, please feel free to contact us at (855) 500-2374 or via email at kbhatt@auroraesi.com for specific technical questions.

Sincerely,



Prepared by: Kartik Bhatt
Senior Environmental Specialist



Approved by: Carolyn Colarich Critz
Environmental Health & Safety Manager

Disclaimer: The information contained in this report is based on the conditions, activities, and operations that existed at the time of the inspection. This report does not verify that all areas, hazardous conditions, or infractions of federal, state, and/or local regulations or laws are in compliance, nor does it conclude that all possible violations, hazardous conditions, or hazards were observed or reported.

Table 1 – Summary of Laboratory Analytical Results

Sample ID	Site	Metals (µg/L)							Total Coliform & <i>E. Coli</i> (1.0 MPN/ 100 mL)	Total Chlorine (mg/L)	pH (s.u.)
		Arsenic	Cadmium	Chromium	Copper	Lead	Nickel	Zinc			
		MCL = 50	MCL = 5	MCL = 50	MCL = 1,300	MCL = 15	MCL = 100	5,000*		4 as Cl ₂ **	
TUSD – Cambridge – 01	A	ND	ND	ND	42.9	2.74	ND	ND	ND	0.68	6.5-8.5*
TUSD – Cambridge – 02	A	ND	ND	ND	52.6	1.9	ND	37	ND	0.57	8.72
TUSD – Foxboro – 03	B	ND	ND	ND	74.8	ND	ND	ND	ND	0.27	8.5
TUSD – Foxboro – 04	B	ND	ND	ND	30.2	3.94	ND	ND	ND	1.38	8.53
TUSD – Vanden – 05	C	ND	ND	ND	109	4.58	ND	4.39	ND	0.07	8.35
TUSD – Vanden – 06	C	ND	ND	ND	10.2	2.42	ND	5.12	ND	0.25	8.47
TUSD – Center – 07	D	ND	ND	ND	147	3.18	ND	11.8	ND	ND	8.11
TUSD – Center – 08	D	ND	ND	ND	162	2.76	ND	11.8	ND	ND	8.01
TUSD – Ed. Ctr. – 09	E	ND	ND	ND	98.4	ND	ND	2.49	ND	0.82	8.42
TUSD – Ed. Ctr. – 10	E	ND	ND	ND	248	ND	ND	ND	ND	0.05	8.35
TUSD–Golden West–11	F	ND	ND	ND	83.5	1.87	ND	21.3	ND	ND	8.64
TUSD–Golden West–12	F	ND	ND	ND	51.9	1.22	ND	5.59	ND	0.1	8.35
TUSD – Travis – 13	G	ND	ND	ND	175	0.91	ND	6.97	ND	0.37	8.08
TUSD – Travis – 14	G	ND	ND	ND	111	3.81	ND	42	ND	ND	8.05
TUSD – Scandia – 15	H	ND	ND	ND	75.1	ND	ND	2.32	ND	0.15	8.31
TUSD – Scandia – 16	H	ND	ND	ND	92.7	4.61	ND	19	ND	0.1	8.24

MCL = Maximum Contaminant Levels, the highest level of a contaminant that is allowed in drinking water (EPA or California, whichever is lower)
ND = Not Detectable at the laboratory testing limit

* Secondary MCL – Guidelines for aesthetic considerations of taste, color, appearance, and odor only (not health-related)

** MRDL = Maximum Residual Disinfectant Level



Special Instructions:

Type of Sample:

1810065

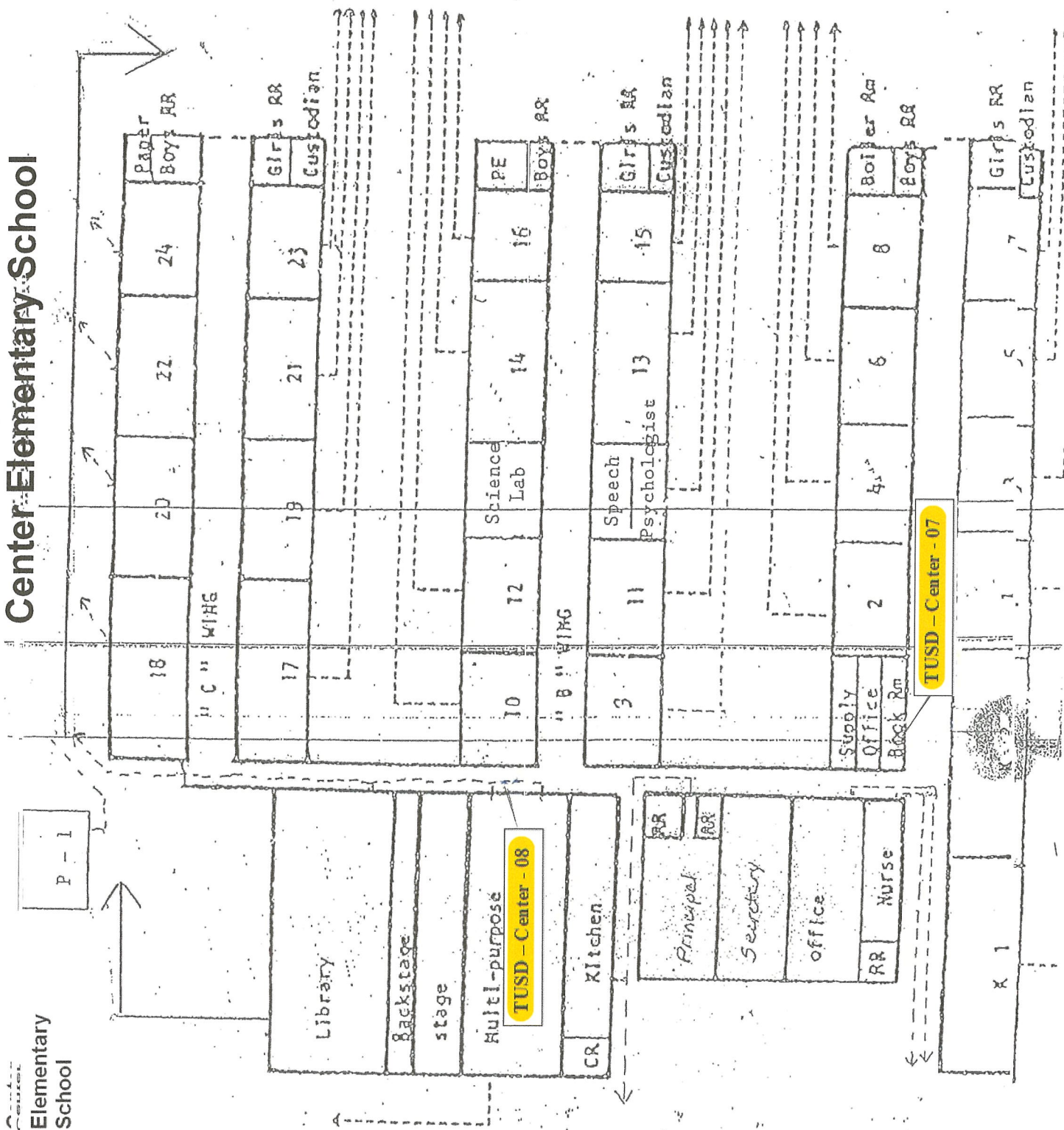
[illegible]

- 1) Have all samples received been stored on ice? Yes
- 2) Did any VOA samples received have any head space? N/A
- 3) Were samples in appropriate containers and packaged properly? Yes
- 4) Were samples received in good condition? Yes
- 5) Temperature 11.3°C

**CONTAINER TYPES: GL = Glass 1 Liter; GHL = 500 ml Glass; QGL = 250 ml Glass; PL = 1 L Plastic; PHL = Plastic 500 ml; Plastic; PQL = 250 ml Plastic; 5 G = 5 gallon Plastic; SJ = Soil Jar; SJ4 = 4oz. SJ8-8 oz; BACTr = 100 ml P; BT = Brass Tube; VOA = 40ml; VOA: POL = Plastic One Liter; POL = Plastic One Liter; Q = glass; QTC = Other Type Container

* PRESERVATIVE: 1=HNO3; 2=HCl; 3=H2SO4; 4=Na2S2O3; 5=NaOH; 6=NH4Cl; 7=ZnAc2; 8=H3PO4

Elementary School



Site Map and Sample Locations

Travis Elementary School

Travis
Elementary

Playground B

Playground A

O'Hara Gr. 6	Godinez SDC Gr. 4, 5, 6	Science Lab	Kruckewitt Gr. 6	PTA	TUSD - Travis - I3	Porquez Gr. 3	Dopler Gr. 1	Brittain Gr. 2	Szabo Gr. 1	Cunningham Gr. 1
Philips Gr. 5	Bigham Gr. 5	Computer Lab	Tenckhoff Gr. 4	Turk Gr. 4	OT	Kruckewitt Gr. 3	Ziegler Gr. 3	Miller Gr. 2	Auwae Gr. 1	
						Reardon Gr. 4	Library Media Center			Music Room
						Title 1				

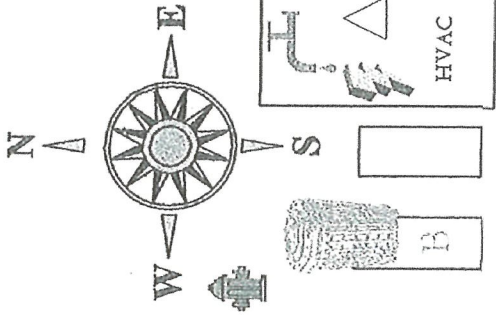
Parent Parking	Kitchen	Multi-Purpose Room	Speech	Work- room	Utility	Health Tech	Office	Play Area	Staff Room	Low- AM Matern PM	Belmore- AM	Cruise Preschool	Heckman SCIL	Heckman SCIL	Baleto Preschool
			Conference Room	Psych	Principal										



You are
Here

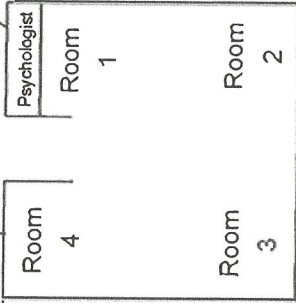


Site Map and Sample Locations Scandia Elementary School

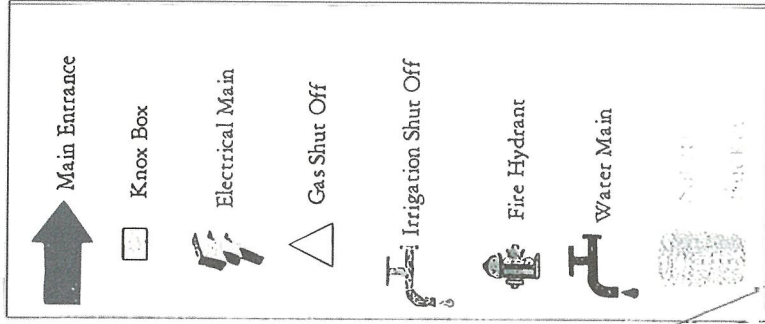


TUSD - Scandia - 15

Under Construction



Parking Lot



TUSD - Scandia - 16

Scandia Elementary
100 Broadway Street
Travis AFB, CA 94535
707-437-4691



Broadway St.

October 25, 2018

Analytical Report

Client: **Aurora Environmental Services Inc.**
601 Ferry Street
Martinez, CA 94553

Attn: **Aurora Environmental Services Inc.**

Work Order #: 1810065

Project: A2730-Travis USD

Project #: A2730-Travis USD

P.O. Number:

Project Received: October 15, 2018 16:35

Project Reported: October 25, 2018 13:17

Sincerely,

Timea Majoros

Timea Majoros, Ph.D.
Laboratory Director / President



645 State Road Ste. 9-12
Danville, CA 94519
TEL: 707.747.6000
FAX: 707.747.5889
www.deltalabs.com

WORK ORDER: 1810065

COC Number:

Aurora Environmental Services Inc.

601 Ferry Street
Martinez, CA 94553

Project: A2730-Travis USD

PO Number:

Project Manager: Aurora Environmental Services Inc.

Project #: A2730-Travis USD

Sample Summary

Lab ID	Sample	Matrix	Date Sampled	Date Received
1810065-01	TUSD-Cambridge-01	Aqueous	October 15, 2018 9:56	October 15, 2018 16:35
1810065-01	TUSD-Cambridge-01	Aqueous	October 15, 2018 9:56	October 15, 2018 16:35
1810065-02	TUSD-Cambridge-02	Aqueous	October 15, 2018 10:01	October 15, 2018 16:35
1810065-02	TUSD-Cambridge-02	Aqueous	October 15, 2018 10:01	October 15, 2018 16:35
1810065-03	TUSD-Foxboro-03	Aqueous	October 15, 2018 10:57	October 15, 2018 16:35
1810065-03	TUSD-Foxboro-03	Aqueous	October 15, 2018 10:57	October 15, 2018 16:35
1810065-04	TUSD-Foxboro-04	Aqueous	October 15, 2018 10:52	October 15, 2018 16:35
1810065-04	TUSD-Foxboro-04	Aqueous	October 15, 2018 10:52	October 15, 2018 16:35
1810065-05	TUSD-Vanden-05	Aqueous	October 15, 2018 11:35	October 15, 2018 16:35
1810065-05	TUSD-Vanden-05	Aqueous	October 15, 2018 11:35	October 15, 2018 16:35
1810065-06	TUSD-Vanden-06	Aqueous	October 15, 2018 11:33	October 15, 2018 16:35
1810065-06	TUSD-Vanden-06	Aqueous	October 15, 2018 11:33	October 15, 2018 16:35
1810065-07	TUSD-Center-07	Aqueous	October 15, 2018 12:03	October 15, 2018 16:35
1810065-07	TUSD-Center-07	Aqueous	October 15, 2018 12:03	October 15, 2018 16:35
1810065-08	TUSD-Center-08	Aqueous	October 15, 2018 12:09	October 15, 2018 16:35
1810065-08	TUSD-Center-08	Aqueous	October 15, 2018 12:09	October 15, 2018 16:35
1810065-09	TUSD-Ed Center-09	Aqueous	October 15, 2018 12:33	October 15, 2018 16:35
1810065-09	TUSD-Ed Center-09	Aqueous	October 15, 2018 12:33	October 15, 2018 16:35
1810065-10	TUSD-Ed Center-10	Aqueous	October 15, 2018 12:34	October 15, 2018 16:35
1810065-10	TUSD-Ed Center-10	Aqueous	October 15, 2018 12:34	October 15, 2018 16:35
1810065-11	TUSD-Goblen West-11	Aqueous	October 15, 2018 13:09	October 15, 2018 16:35
1810065-11	TUSD-Goblen West-11	Aqueous	October 15, 2018 13:09	October 15, 2018 16:35
1810065-12	TUSD-Goblen West-12	Aqueous	October 15, 2018 13:14	October 15, 2018 16:35
1810065-12	TUSD-Goblen West-12	Aqueous	October 15, 2018 13:14	October 15, 2018 16:35
1810065-13	TUSD-Travis Es-13	Aqueous	October 15, 2018 14:57	October 15, 2018 16:35
1810065-13	TUSD-Travis Es-13	Aqueous	October 15, 2018 14:57	October 15, 2018 16:35
1810065-14	TUSD-Travis ES-14	Aqueous	October 15, 2018 14:51	October 15, 2018 16:35
1810065-14	TUSD-Travis ES-14	Aqueous	October 15, 2018 14:51	October 15, 2018 16:35
1810065-15	TUSD-Scandia-15	Aqueous	October 15, 2018 15:22	October 15, 2018 16:35
1810065-15	TUSD-Scandia-15	Aqueous	October 15, 2018 15:22	October 15, 2018 16:35
1810065-16	TUSD-Scandia-16	Aqueous	October 15, 2018 15:26	October 15, 2018 16:35
1810065-16	TUSD-Scandia-16	Aqueous	October 15, 2018 15:26	October 15, 2018 16:35

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.



WORK ORDER: 1810065
COC Number:
Aurora Environmental Services Inc.

 601 Ferry Street
 Martinez, CA 94553

Project: A2730-Travis USD

PO Number:
Project Manager: Aurora Environmental Services Inc.

Project #: A2730-Travis USD

Sample Results

(Continued)

Sample Date: October 15, 2018 12:03

Sample: TUSD-Center-07

1810065-07 (Aqueous)
Sample Type: Grab

Prep Date: October 18, 2018 11:32

Analyte	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
Total Metals by EPA 200.7 (ICP-AES)								
Arsenic	10.0		ND	ug/L	1	10/18/18	EPA 200.7	18J0161/IZ
Cadmium	5.00		ND	ug/L	1	10/18/18	EPA 200.7	18J0161/IZ
Chromium	5.00		ND	ug/L	1	10/18/18	EPA 200.7	18J0161/IZ
Copper	5.00		147	ug/L	1	10/18/18	EPA 200.7	18J0161/IZ
Lead	5.00	J	3.18	ug/L	1	10/18/18	EPA 200.7	18J0161/IZ
Nickel	5.00		ND	ug/L	1	10/18/18	EPA 200.7	18J0161/IZ
Zinc	5.00		11.8	ug/L	1	10/18/18	EPA 200.7	18J0161/IZ



451 State Road, Ste. 9 - 12
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WORK ORDER: 1810065

COC Number:

Aurora Environmental Services Inc.

601 Ferry Street
Martinez, CA 94553

Project: A2730-Travis USD

PO Number:

Project Manager: Aurora Environmental Services Inc.

Project #:A2730-Travis USD

Sample Results

(Continued)

Sample Date: October 15, 2018 12:03

Sample: TUSD-Center-07 (Continued)

1810065-07 (Aqueous)

Sample Type: Grab

Prep Date: October 15, 2018 16:00

Analyte	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
Wet Chemistry								
Total Chlorine	0.0500		ND	mg/L	1	10/15/18	SM 4500 Cl G	18J0144/IZ

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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6850 Aurora Road Ste. 9 - 12
Berkeley, CA 94610
Tel: 925.257.6291
Fax: 925.257.6292
www.deltalaboratories.com

WORK ORDER: 1810065

COC Number:

Aurora Environmental Services Inc.

601 Ferry Street
Martinez, CA 94553

Project: A2730-Travis USD

PO Number:

Project Manager: Aurora Environmental Services Inc.

Project #:A2730-Travis USD

Sample Results

(Continued)

Sample Date: October 15, 2018 12:09

Sample: TUSD-Center-08

1810065-08 (Aqueous)

Sample Type: Grab

Prep Date: October 18, 2018 11:32

Analyte	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
Total Metals by EPA 200.7 (ICP-AES)								
Arsenic	10.0		ND	ug/L	1	10/18/18	EPA 200.7	18J0161/IJ
Cadmium	5.00		ND	ug/L	1	10/18/18	EPA 200.7	18J0161/IJ
Chromium	5.00		ND	ug/L	1	10/18/18	EPA 200.7	18J0161/IJ
Copper	5.00		162	ug/L	1	10/18/18	EPA 200.7	18J0161/IJ
Lead	5.00	J	2.76	ug/L	1	10/18/18	EPA 200.7	18J0161/IJ
Nickel	5.00		ND	ug/L	1	10/18/18	EPA 200.7	18J0161/IJ
Zinc	5.00		11.8	ug/L	1	10/18/18	EPA 200.7	18J0161/IJ

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Aurora Environmental Services Inc.

 601 Ferry Street
 Martinez, CA 94553

Project: A2730-Travis USD

PO Number:
Project Manager: Aurora Environmental Services Inc.

Project #: A2730-Travis USD

Sample Results

(Continued)

Sample Date: October 15, 2018 12:09

Sample: TUSD-Center-08 (Continued)

1810065-08 (Aqueous)
Sample Type: Grab

Prep Date: October 15, 2018 16:00

Analyte	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
Wet Chemistry								
Total Chlorine	0.0500		ND	mg/L	1	10/15/18	SM 4500 Cl G	18J0144/IZ

WORK ORDER: 1810065
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Aurora Environmental Services Inc.

 601 Ferry Street
 Martinez, CA 94553

Project: A2730-Travis USD

PO Number:
Project Manager: Aurora Environmental Services Inc.

Project #: A2730-Travis USD

Sample Results

(Continued)

Sample Date: October 15, 2018 14:57

Sample: TUSD-Travis Es-13

1810065-13 (Aqueous)

Sample Type: Grab

Prep Date: October 18, 2018 11:32

Analyte	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
Total Metals by EPA 200.7 (ICP-AES)								
Arsenic	10.0		ND	ug/L	1	10/18/18	EPA 200.7	18J0161/IZ
Cadmium	5.00		ND	ug/L	1	10/18/18	EPA 200.7	18J0161/IZ
Chromium	5.00		ND	ug/L	1	10/18/18	EPA 200.7	18J0161/IZ
Copper	5.00		175	ug/L	1	10/18/18	EPA 200.7	18J0161/IZ
Lead	5.00	J	0.910	ug/L	1	10/18/18	EPA 200.7	18J0161/IZ
Nickel	5.00		ND	ug/L	1	10/18/18	EPA 200.7	18J0161/IZ
Zinc	5.00		6.97	ug/L	1	10/18/18	EPA 200.7	18J0161/IZ



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Hayward, CA 94541
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www.deltalaboratories.com

WORK ORDER: 1810065

COC Number:

Aurora Environmental Services Inc.

601 Ferry Street
Martinez, CA 94553

Project: A2730-Travis USD

PO Number:

Project Manager: Aurora Environmental Services Inc.

Project #:A2730-Travis USD

Sample Results

(Continued)

Sample Date: October 15, 2018 14:57

Sample: TUSD-Travis Es-13 (Continued)

1810065-13 (Aqueous)

Sample Type: Grab

Prep Date: October 15, 2018 16:00

Analyte	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
Wet Chemistry								
Total Chlorine	0.0500		0.375	mg/L	1	10/15/18	SM 4500 Cl G	18J0144/IJ

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WORK ORDER: 1810065
COC Number:
Aurora Environmental Services Inc.

 601 Ferry Street
 Martinez, CA 94553

Project: A2730-Travis USD

PO Number:
Project Manager: Aurora Environmental Services Inc.

Project #: A2730-Travis USD

Sample Results

(Continued)

Sample Date: October 15, 2018 14:51

Sample: TUSD-Travis ES-14

1810065-14 (Aqueous)

Sample Type: Grab

Prep Date: October 18, 2018 11:32

Analyte	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
Total Metals by EPA 200.7 (ICP-AES)								
Arsenic	10.0		ND	ug/L	1	10/18/18	EPA 200.7	18J0161/IJ
Cadmium	5.00		ND	ug/L	1	10/18/18	EPA 200.7	18J0161/IJ
Chromium	5.00		ND	ug/L	1	10/18/18	EPA 200.7	18J0161/IJ
Copper	5.00		111	ug/L	1	10/18/18	EPA 200.7	18J0161/IJ
Lead	5.00	J	3.81	ug/L	1	10/18/18	EPA 200.7	18J0161/IJ
Nickel	5.00		ND	ug/L	1	10/18/18	EPA 200.7	18J0161/IJ
Zinc	5.00		42.0	ug/L	1	10/18/18	EPA 200.7	18J0161/IJ

WORK ORDER: 1810065
COC Number:
Aurora Environmental Services Inc.

 601 Ferry Street
 Martinez, CA 94553

Project: A2730-Travis USD

PO Number:
Project Manager: Aurora Environmental Services Inc.

Project #: A2730-Travis USD

Sample Results

(Continued)

Sample Date: October 15, 2018 14:51

Sample: TUSD-Travis ES-14 (Continued)

1810065-14 (Aqueous)
Sample Type: Grab

Prep Date: October 15, 2018 16:00

Analyte	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
Wet Chemistry								
Total Chlorine	0.0500		ND	mg/L	1	10/15/18	SM 4500 Cl G	18J0144/IZ

WORK ORDER: 1810065
COC Number:
Aurora Environmental Services Inc.

 601 Ferry Street
 Martinez, CA 94553

Project: A2730-Travis USD

PO Number:
Project Manager: Aurora Environmental Services Inc.

Project #: A2730-Travis USD

Sample Results

(Continued)

Sample Date: October 15, 2018 15:22

Sample: TUSD-Scandia-15

1810065-15 (Aqueous)

Sample Type: Grab

Prep Date: October 18, 2018 11:32

Analyte	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
Total Metals by EPA 200.7 (ICP-AES)								
Arsenic	10.0		ND	ug/L	1	10/18/18	EPA 200.7	18J0161/IZ
Cadmium	5.00		ND	ug/L	1	10/18/18	EPA 200.7	18J0161/IZ
Chromium	5.00		ND	ug/L	1	10/18/18	EPA 200.7	18J0161/IZ
Copper	5.00		75.1	ug/L	1	10/18/18	EPA 200.7	18J0161/IZ
Lead	5.00		ND	ug/L	1	10/18/18	EPA 200.7	18J0161/IZ
Nickel	5.00		ND	ug/L	1	10/18/18	EPA 200.7	18J0161/IZ
Zinc	5.00	J	2.32	ug/L	1	10/18/18	EPA 200.7	18J0161/IZ

WORK ORDER: 1810065

COC Number:

Aurora Environmental Services Inc.

601 Ferry Street
Martinez, CA 94553

Project: A2730-Travis USD

PO Number:

Project Manager: Aurora Environmental Services Inc.

Project #: A2730-Travis USD

Sample Results

(Continued)

Sample Date: October 15, 2018 15:22

Sample: TUSD-Scandia-15 (Continued)

1810065-15 (Aqueous)

Sample Type: Grab

Prep Date: October 15, 2018 16:00

Analyte	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
Wet Chemistry								
Total Chlorine	0.0500		0.125	mg/L	1	10/15/18	SM 4500 Cl G	18J0144/IZ

WORK ORDER: 1810065
COC Number:
Aurora Environmental Services Inc.

 601 Ferry Street
 Martinez, CA 94553

Project: A2730-Travis USD

PO Number:
Project Manager: Aurora Environmental Services Inc.

Project #: A2730-Travis USD

Sample Results

(Continued)

Sample Date: October 15, 2018 15:26

Sample: TUSD-Scandia-16

1810065-16 (Aqueous)
Sample Type: Grab

Prep Date: October 18, 2018 11:32

Analyte	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
Total Metals by EPA 200.7 (ICP-AES)								
Arsenic	10.0		ND	ug/L	1	10/18/18	EPA 200.7	18J0161/IJ
Cadmium	5.00		ND	ug/L	1	10/18/18	EPA 200.7	18J0161/IJ
Chromium	5.00		ND	ug/L	1	10/18/18	EPA 200.7	18J0161/IJ
Copper	5.00		92.7	ug/L	1	10/18/18	EPA 200.7	18J0161/IJ
Lead	5.00	J	4.61	ug/L	1	10/18/18	EPA 200.7	18J0161/IJ
Nickel	5.00		ND	ug/L	1	10/18/18	EPA 200.7	18J0161/IJ
Zinc	5.00		19.0	ug/L	1	10/18/18	EPA 200.7	18J0161/IJ

WORK ORDER: 1810065

COC Number:

Aurora Environmental Services Inc.

601 Ferry Street
Martinez, CA 94553

Project: A2730-Travis USD

PO Number:

Project Manager: Aurora Environmental Services Inc.

Project #: A2730-Travis USD

Sample Results

(Continued)

Sample Date: October 15, 2018 15:26

Sample: TUSD-Scandia-16 (Continued)

1810065-16 (Aqueous)

Sample Type: Grab

Prep Date: October 15, 2018 16:00

Analyte	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
Wet Chemistry								
Total Chlorine	0.0500		0.100	mg/L	1	10/15/18	SM 4500 Cl G	18J0144/IJZ



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WORK ORDER: 1810065

COC Number:

Aurora Environmental Services Inc.

601 Ferry Street
Martinez, CA 94553

Project: A2730-Travis USD

PO Number:

Project Manager: Aurora Environmental Services Inc.

Project #: A2730-Travis USD

Sample Results

(Continued)

Sample Date: October 15, 2018 12:03

Sample: TUSD-Center-07

1810065-07 (Aqueous)

Sample Type: Grab

Data Analyzed by: BioVir

Prep Date: October 16, 2018 0:00

Analyte	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
Bacteriological Analyses								
E. Coli			Absent	present/absent	1	10/16/18	SM 9223B	181884/

WORK ORDER: 1810065

COC Number:

Aurora Environmental Services Inc.

601 Ferry Street
Martinez, CA 94553

Project: A2730-Travis USD

PO Number:

Project Manager: Aurora Environmental Services Inc.

Project #: A2730-Travis USD

Sample Results

(Continued)

Sample Date: October 15, 2018 12:03

Sample: TUSD-Center-07 (Continued)

Data Analyzed by: BioVir

1810065-07 (Aqueous)

Sample Type: Grab

Prep Date: October 16, 2018 0:00

Analyte	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
Total Coliform SM9221B								
Total Coliform	20		Absent	MPN/100 mL	1	10/16/18	SM 9221 B	181884/

WORK ORDER: 1810065

COC Number:

Aurora Environmental Services Inc.

601 Ferry Street
Martinez, CA 94553

Project: A2730-Travis USD

PO Number:

Project Manager: Aurora Environmental Services Inc.

Project #: A2730-Travis USD

Sample Results

(Continued)

Sample Date: October 15, 2018 12:09

Sample: TUSD-Center-08

1810065-08 (Aqueous)

Sample Type: Grab

Data Analyzed by: BioVir

Prep Date: October 16, 2018 0:00

Analyte	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
Bacteriological Analyses								
E. Coli			Absent	present/absent	1	10/16/18	SM 9223B	181884/



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WORK ORDER: 1810065

COC Number:

Aurora Environmental Services Inc.

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Martinez, CA 94553

Project: A2730-Travis USD

PO Number:

Project Manager: Aurora Environmental Services Inc.

Project #: A2730-Travis USD

Sample Results

(Continued)

Sample Date: October 15, 2018 12:09

Data Analyzed by: BioVir

Prep Date: October 16, 2018 0:00

Sample: TUSD-Center-08 (Continued)
1810065-08 (Aqueous)

Sample Type: Grab

Analyte	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
Total Coliform SM9221B								
Total Coliform	20		Absent	MPN/100 mL	1	10/16/18	SM 9221 B	181884/

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.





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WORK ORDER: 1810065

COC Number:

Aurora Environmental Services Inc.

601 Ferry Street
Martinez, CA 94553

Project: A2730-Travis USD

PO Number:

Project Manager: Aurora Environmental Services Inc.

Project #: A2730-Travis USD

Sample Results

(Continued)

Sample Date: October 15, 2018 12:33

Sample: TUSD-Ed Center-09
1810065-09 (Aqueous)

Sample Type: Grab

Data Analyzed by: BioVir

Prep Date: October 16, 2018 0:00

Analyte	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
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Bacteriological Analyses

E. Coli			Absent	present/absent	1	10/16/18	SM 9223B	181884/
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WORK ORDER: 1810065
COC Number:
Aurora Environmental Services Inc.

 601 Ferry Street
 Martinez, CA 94553

Project: A2730-Travis USD

PO Number:
Project Manager: Aurora Environmental Services Inc.

Project #: A2730-Travis USD

Sample Results

(Continued)

Sample Date: October 15, 2018 14:57

Data Analyzed by: BioVir

Prep Date: October 16, 2018 0:00

Sample: TUSD-Travis Es-13
 1810065-13 (Aqueous)

Sample Type: Grab

Analyte	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
Bacteriological Analyses								
E. Coli			Absent	present/absent	1	10/16/18	SM 9223B	181884/



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WORK ORDER: 1810065

COC Number:

Aurora Environmental Services Inc.

601 Ferry Street
Martinez, CA 94553

Project: A2730-Travis USD

PO Number:

Project Manager: Aurora Environmental Services Inc.

Project #: A2730-Travis USD

Sample Results

(Continued)

Sample Date: October 15, 2018 14:57

Data Analyzed by: BioVir

Prep Date: October 16, 2018 0:00

Sample: TUSD-Travis Es-13 (Continued)
1810065-13 (Aqueous)

Sample Type: Grab

Analyte	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
Total Coliform SM9221B								
Total Coliform	20		Absent	MPN/100 mL	1	10/16/18	SM 9221 B	181884/

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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WORK ORDER: 1810065

COC Number:

Aurora Environmental Services Inc.

601 Ferry Street
Martinez, CA 94553

Project: A2730-Travis USD

PO Number:

Project Manager: Aurora Environmental Services Inc.

Project #: A2730-Travis USD

Sample Results

(Continued)

Sample Date: October 15, 2018 14:51

Data Analyzed by: BioVir

Prep Date: October 16, 2018 0:00

Sample: TUSD-Travis ES-14

1810065-14 (Aqueous)

Sample Type: Grab

Analyte	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
Bacteriological Analyses								
E. Coli			Absent	present/absent	1	10/16/18	SM 9223B	181884/



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WORK ORDER: 1810065

COC Number:

Aurora Environmental Services Inc.

601 Ferry Street
Martinez, CA 94553

Project: A2730-Travis USD

PO Number:

Project Manager: Aurora Environmental Services Inc.

Project #: A2730-Travis USD

Sample Results

(Continued)

Sample Date: October 15, 2018 14:51

Data Analyzed by: BioVir

Prep Date: October 16, 2018 0:00

Sample: TUSD-Travis ES-14 (Continued)
1810065-14 (Aqueous)

Sample Type: Grab

Analyte	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
Total Coliform SM9221B								
Total Coliform	20		Absent	MPN/100 mL	1	10/16/18	SM 9221 B	181884/

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Environmental Testing
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WORK ORDER: 1810065

COC Number:

Aurora Environmental Services Inc.

601 Ferry Street
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Project: A2730-Travis USD

PO Number:

Project Manager: Aurora Environmental Services Inc.

Project #: A2730-Travis USD

Sample Results

(Continued)

Sample Date: October 15, 2018 15:22

Sample: TUSD-Scandia-15

1810065-15 (Aqueous)

Sample Type: Grab

Data Analyzed by: BioVir

Prep Date: October 16, 2018 0:00

Analyte	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
Bacteriological Analyses								
E. Coli			Absent	present/absent	1	10/16/18	SM 9223B	181884/

WORK ORDER: 1810065
COC Number:
Aurora Environmental Services Inc.

 601 Ferry Street
 Martinez, CA 94553

Project: A2730-Travis USD

PO Number:
Project Manager: Aurora Environmental Services Inc.

Project #: A2730-Travis USD

Sample Results

(Continued)

Sample Date: October 15, 2018 15:22

Sample: TUSD-Scandia-15 (Continued)

Data Analyzed by: BioVir

1810065-15 (Aqueous)
Sample Type: Grab

Prep Date: October 16, 2018 0:00

Analyte	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
Total Coliform SM9221B								
Total Coliform	20		Absent	MPN/100 mL	1	10/16/18	SM 9221 B	181884/

WORK ORDER: 1810065

COC Number:

Aurora Environmental Services Inc.

601 Ferry Street
Martinez, CA 94553

Project: A2730-Travis USD

PO Number:

Project Manager: Aurora Environmental Services Inc.

Project #: A2730-Travis USD

Sample Results

(Continued)

Sample Date: October 15, 2018 15:26

Sample: TUSD-Scandia-16

1810065-16 (Aqueous)

Sample Type: Grab

Data Analyzed by: BioVir

Prep Date: October 16, 2018 0:00

Analyte	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
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Bacteriological Analyses

E. Coli			Absent	present/absent	1	10/16/18	SM 9223B	181884/
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WORK ORDER: 1810065

COC Number:

Aurora Environmental Services Inc.

601 Ferry Street
Martinez, CA 94553

Project: A2730-Travis USD

PO Number:

Project Manager: Aurora Environmental Services Inc.

Project #: A2730-Travis USD

Sample Results

(Continued)

Sample Date: October 15, 2018 15:26

Sample: TUSD-Scandia-16 (Continued)

Data Analyzed by: BioVir

1810065-16 (Aqueous)

Sample Type: Grab

Prep Date: October 16, 2018 0:00

Analyte	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/Analyst
---------	-----------------	------	--------	------	-----------------	---------------	--------	---------------

Total Coliform SM9221B

Total Coliform	20		Absent	MPN/100 mL	1	10/16/18	SM 9221 B	181884/
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WORK ORDER: 1810065
COC Number:
Aurora Environmental Services Inc.

 601 Ferry Street
 Martinez, CA 94553

Project: A2730-Travis USD

PO Number:
Project Manager: Aurora Environmental Services Inc.

Project #: A2730-Travis USD

Quality Control

Total Metals by EPA 200.7 (ICP-AES)
Prepared & Analyzed: Oct-18-18

Analyte	Source Result	Result	Qual	Reporting Limit	Unit	Spike Level	% REC	%REC Limits	RPD	RPD Limit
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Batch: 18J0161
Analyst: IZ
Blank (18J0161-BLK1)

Copper		ND		5.00	ug/L					
Arsenic		ND		10.0	ug/L					
Zinc		ND		5.00	ug/L					
Cadmium		ND		5.00	ug/L					
Nickel		ND		5.00	ug/L					
Chromium		ND		5.00	ug/L					
Lead		ND		5.00	ug/L					

LCS (18J0161-BS1)

Arsenic		512		10.0	ug/L	500	102	80-120		
Cadmium		512		5.00	ug/L	500	102	80-120		
Chromium		511		5.00	ug/L	500	102	80-120		
Copper		510		5.00	ug/L	500	102	80-120		
Lead		514		5.00	ug/L	500	103	80-120		
Nickel		510		5.00	ug/L	500	102	80-120		
Zinc		534		5.00	ug/L	500	107	80-120		

LCS Dup (18J0161-BSD1)

Zinc		529		5.00	ug/L	500	106	80-120	0.926	20
Copper		503		5.00	ug/L	500	101	80-120	1.37	20
Cadmium		508		5.00	ug/L	500	102	80-120	0.692	20
Lead		512		5.00	ug/L	500	102	80-120	0.470	20
Arsenic		507		10.0	ug/L	500	101	80-120	0.924	20
Nickel		506		5.00	ug/L	500	101	80-120	0.783	20
Chromium		507		5.00	ug/L	500	101	80-120	0.890	20

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WORK ORDER: 1810065
COC Number:
Aurora Environmental Services Inc.

 601 Ferry Street
 Martinez, CA 94553

Project: A2730-Travis USD

PO Number:
Project Manager: Aurora Environmental Services Inc.

Project #: A2730-Travis USD

Quality Control

(Continued)

Wet Chemistry
Prepared & Analyzed: Oct-15-18

Analyte	Source Result	Result	Qual	Reporting Limit	Unit	Spike Level	% REC	%REC Limits	RPD	RPD Limit
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Batch: 18J0144
Analyst: IZ
Blank (18J0144-BLK1)

Total Chlorine	ND	0.0500	mg/L
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LCS (18J0144-BS1)

Total Chlorine	1.40	0.0500	mg/L	1.50	93.3	80-120
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LCS Dup (18J0144-BSD1)

Total Chlorine	1.45	0.0500	mg/L	1.50	96.7	80-120	3.51	20
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WORK ORDER: 1810065

COC Number:

Aurora Environmental Services Inc.

601 Ferry Street
Martinez, CA 94553

Project: A2730-Travis USD

PO Number:

Project Manager: Aurora Environmental Services Inc.

Project #: A2730-Travis USD

Notes and Definitions

<u>Item</u>	<u>Definition</u>
Absent	Absent
J	The result is less than the reporting limit, but greater than the MDL.
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
%REC	Percent Recovery
DF	Dilution Factor
LCS	Lab Control Sample
LCSD	Lab Control Sample Duplicate
MDL	Minimum Detection Limit
MRL	Minimum Reporting Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated