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.

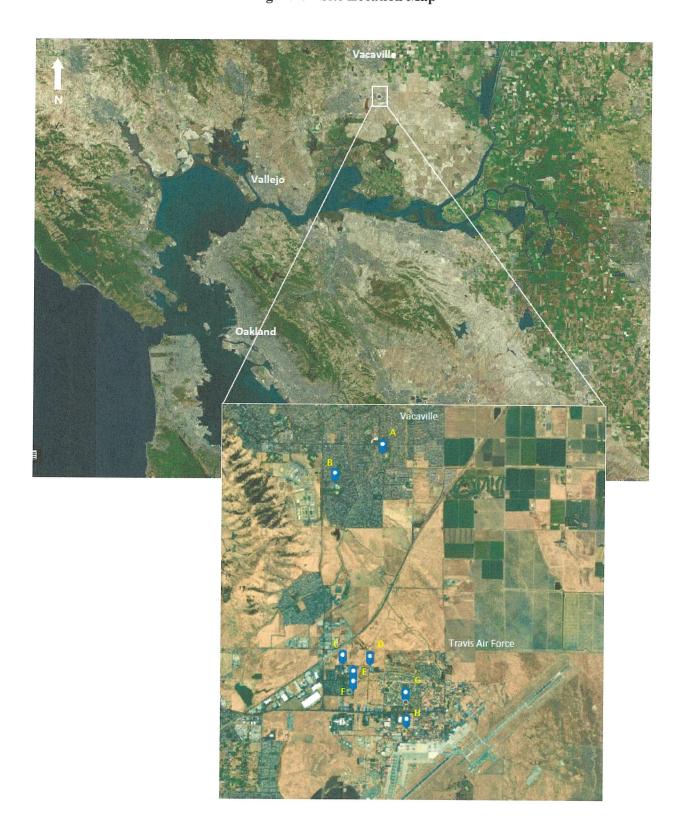
1.0 Introduction and Scope of Work

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 ($<4^{\circ}C = 39.2^{\circ}F$) and transported to the laboratory, Delta Environmental Laboratories of Benicia.

Aurora Environmental Services, Inc. Project No. A2730 November 30, 2018

Travis Unified School District Drinking Water Quality Assessment Report Eight District Sites

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, and 5 micrograms per liter (µg/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

Aurora Environmental Services, Inc.

Project No. A2730 November 30, 2018

Sample ID	Site				Metals (μg/L)				Total Coliform & E. Coli (1.0 MPN/ 100	Total Chlorine (mg/L)	рН (s.u.)
		Arsenic	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	()		
		MCL = 50	MCL=5	MCL = 50	MCL = 1,300	MCL = 15	MCL = 100	*000,5	MCL = 0	4 as Cl ₂ **	6.5-8.5*
TUSD – Cambridge – 01	А	ND	QN.	ND	42.9	2.74	QN	ND ND	QN	89.0	8.63
TUSD – Cambridge – 02	٧	ND	ND	ND	52.6	1.9	ND	37	N	0.57	8.72
TUSD – Foxboro – 03	В	ON	ND	ND	74.8	ND	QN	<u>N</u>	ND	0.27	8.5
TUSD - Foxboro - 04	В	ND	ND	ND	30.2	3.94	N N	QN.	QN.	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	, o	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	ON	ND	8.11
TUSD – Center – 08	D	ND	ND	ND	162	2.76	QN	11.8	ND	QN.	8.01
TUSD – Ed. Ctr. – 09	Ε	ND	ND	ND	98.4	ND	N N	2.49	ND	0.82	8.42
TUSD – Ed. Ctr. – 10	田	ND	ND	ND	248	ND	ON	ND	ND	0.05	8.35
TUSD-Golden West-11	Ħ	ND	ND	ND	83.5	1.87	QN	21.3	ND	<u>N</u>	8.64
TUSD-Golden West-12	H	ND	ND	ND	51.9	1.22	QN	5.59	ND	0.1	8.35
TUSD – Travis – 13	Ð	ND	ND	ND	175	0.91	QN	6.97	ND	0.37	8.08
TUSD – Travis – 14	Ŋ	ND	ND	ND	1111	3.81	ND	42	QN	ND	8.05
TUSD – Scandia – 15	Н	ND	ND	ND	75.1	QN	QN	2.32	QN	0.15	8.31
TUSD – Scandia – 16	Н	ND QN	QN	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) $\ensuremath{\mathsf{ND}} = \ensuremath{\mathsf{Not}}$ Detectable at the laboratory testing limit

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

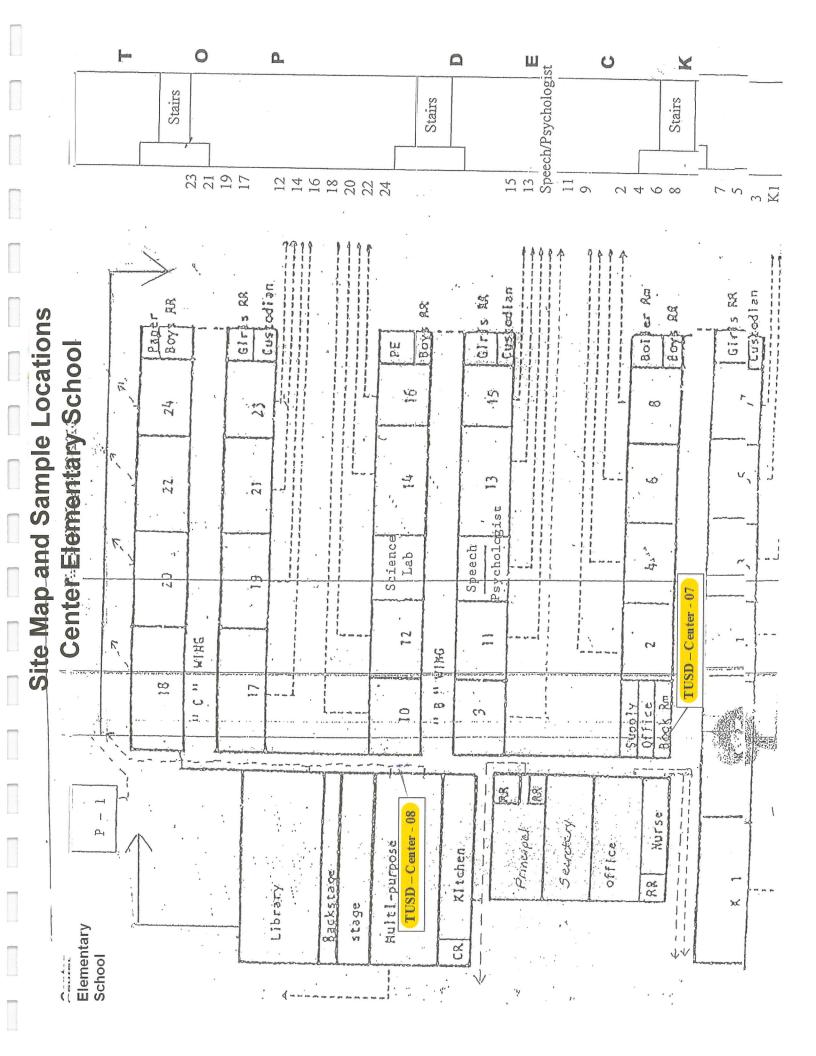
^{**} MRDL = Maximum Residual Disinfectant Level



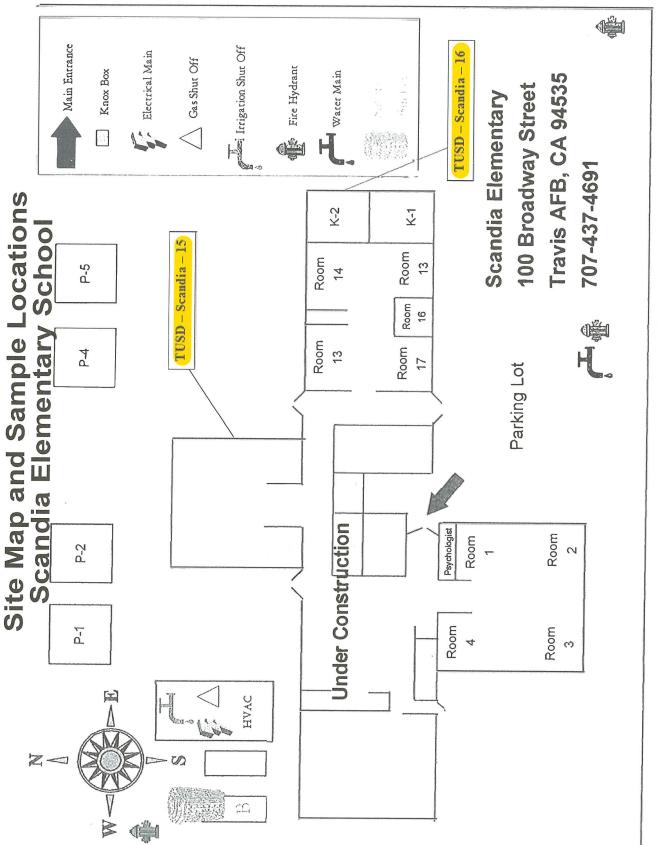
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Company: Aurora Environmental Services Inc. Address: 601 Ferry Street, Martinez, CA 94553										(707)	(707) 747-6081	FAX: (707) 361-9035	samples@deltalabmail.com
Email: kcasey@auroraesi.com, kbhatt@auroraesi.com	.com							An	Analysis Requested	adneste		Project Name:	A2730 - Travis USD - 8 sites
Telephone: 925-689-2174 Fax	Fax: 855-710-6294	_			iloo.	enino	onnes 6					PO No:	
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Received By:	Time		Date			ĺ							a"
"CONTAINER TYPES: GL = Glass 1 Liter; GHL = 500 ml Glass; GQL = 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 = 40z. SJ8=8 Oz; BACT+ 100 mL P; BT = Brass Tube; VOA = 40mL VOA; POL = Plastic One Liter ; P=plastic; G= glass; OTC - Other Type Container	00 ml Glass;GQL = 250 m J = Soil Jar; Sj4 = 4oz. Sj; ; P=plastic; G= glass;	L = 250 mL = 4oz. Sj8= S= glass;	Glass; PL 8 Oz; BAC OTC -	ss; PL = 1 L Plastic; PHL = Pla z; BACT+ 100 mL P; BT = Bras OTC - Other Type Container	stic 500 r s Tube; \								
							PRESE	RVATIVE	::1=HNO	3; 2=HC	3=H2SO4;	1=Na2S2O3; 5=NAOH; 6=N	* PRESERVATIVE:1=HNO3; 2=HCl; 3=H2SO4; 4=Na2S2O3; 5=NAOH; 6=NH4Cl; 7=ZnAce; 8=H3PO4



Result to: Company: Aurora Environmental Services Inc.			Chain of Custody (COC) Form	C) Form			688	685 Stone Road Ste. 9 & 12 Renicia CA 94540	te. 9 & 12	
Address: 601 Ferry Street, Martinez, CA 94553							02)	(707) 747-6081	FAX: (707) 361-9035	samples@deltalabmail.com
Email: kcasey@auroraesi.com, kbhatt@auroraesi.com	si.com					An	Analysis Requested	pa	Project Name:	A2730 - Travis USD - 8 sites
Telephone: 925-689-2174 Fa	Fax: 855-710-6294			!!	_				PO No:	
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**CONTAINER TYPES: GL = Glass 1 Liter; GHL = 500 ml Glass; GQL = 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 = 40z. SJ8=8 Oz; BACT+ 100 mL P; BT = Brass Tube; VOA = 40mL VOA; POL = Plastic One Liter ; P=plastic; G= glass; OTC - Other Type Container	500 ml Glass;GQL = 250 ml SJ = Soil Jar; Sj4 = 4oz. Sj8 ; P=plastic; G= glass;	- Glass; PL = 1 =8 Oz; BACT+ OTC - Otl	= 1 L Plastic; PHL = Plasti 1+ 100 mL P; BT = Brass T Other Type Container	: 500 mL; ube; VOA	¥ "					
					* PRES	ERVATIVE	1=HNO3; 2=HC	J; 3=H2SO4; 4=	Na2S203; 5=NAOH; 6=	* PRESERVATIVE:1=HNO3; 2=HCl; 3=H2SO4; 4=Na2S2O3; 5=NAOH; 6=NH4Cl; 7=ZnAce; 8=H3PO4



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Broadway St.



685 Stone Road Ste. 9-12 Benicia, CA 94510 T. 707,747.6081 F. 707.361,5689 www.deltaenvironmentallab.com

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, Ph.D.

Laboratory Director / President

YEARS
Trusted Service Testing
Air + Water + Soil



SSE Store Kord Me. 9-15 Drugg, CA 9803 T. 707, 747, 5081 PVIII SSE, SSED Trans delimenta recommission

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





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WORK ORDER: 1810065

COC Number:

Aurora Environmental Services Inc.

Project: A2730-Travis USD
PO Number:

601 Ferry Street Martinez, CA 94553

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)	Samp	le Type:	Grab		P	rep 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



COC Number:

Aurora Environmental Services Inc.

Project: A2730-Travis USD

601 Ferry Street

PO Number:

Martinez, CA 94553

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)

1810	0065-07 (Aqueous)	Samp	le Type:	Grab		P	rep Date:	October 15,	2018 16:00
Analyte		Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/ Analyst
Wet Chemistry	1								
Total Chlorine		0.0500		ND	mg/L	1	10/15/18	SM 4500 Cl G	18J0144/IZ
•	•	0.0500		ND	mg/L	1	10/15/18	SM 4500	CI G



688 Niche Royd Sye, 9 - 12 Septem, CA 14615 10 Tet 2017 1624 10 160 July Safe Terre dellassady amoraty this

WORK ORDER: 1810065 COC Number:

Aurora Environmental Services Inc.

PO Number:

601 Ferry Street Martinez, CA 94553

Project Manager: Aurora Environmental Services Inc.

Project #:A2730-Travis USD

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 Dilution **Analyte** Reporting Date Batch/ **Oual** Result Unit Method Factor Analyzed Limit **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 5.00 162 ug/L 10/18/18 EPA 200.7 18J0161/IZ Lead 5.00 J 2.76 ug/L 1 10/18/18 EPA 200.7 18J0161/IZ Nickel 5.00 ND ug/L 10/18/18 1 EPA 200.7 18J0161/IZ Zinc 5.00 11.8 ug/L 1 10/18/18 EPA 200.7 18J0161/IZ



COC Number:

Aurora Environmental Services Inc.

Project: A2730-Travis USD PO Number:

601 Ferry Street Martinez, CA 94553

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)	Sampl	le Type:	Grab		P	rep 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 CI G	18J0144/IZ



COC Number:

Aurora Environmental Services Inc.

Project: A2730-Travis USD PO Number:

601 Ferry Street Martinez, CA 94553

Project Manager: Aurora Environmental Services Inc.

Prep Date:

Project #: A2730-Travis USD

Sample Results (Continued)

Sample Type: Grab

Sample Date: October 15, 2018 14:57

October 18, 2018 11:32

TUSD-Travis Es-13 Sample:

1810065-13 (Aqueous)

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

Takal Makala ku EDA 200 7 (TOD AEC)								
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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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

=======================================		/ /			-	p	000000. 20,	
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 CI G	18J0144/IZ



Martinez, CA 94553

COC Number:

Aurora Environmental Services Inc.

601 Ferry Street

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

Sample Type: Grab 1810065-14 (Aqueous) Prep Date: October 18, 2018 11:32

Reporting Limit	Qual	Result	Unit	Dilution Factor		Method	Batch/ Analyst
10.0		ND	ug/L	1	10/18/18	EPA 200.7	18J0161/IZ
5.00		ND	ug/L	1	10/18/18	EPA 200.7	18J0161/IZ
5.00		ND	ug/L	1	10/18/18	EPA 200.7	18J0161/IZ
5.00		111	ug/L	1	10/18/18	EPA 200.7	18J0161/IZ
5.00	J	3.81	ug/L	1	10/18/18	EPA 200.7	18J0161/IZ
5.00		ND	ug/L	1	10/18/18	EPA 200.7	18J0161/IZ
5.00		42.0	ug/L	1	10/18/18	EPA 200.7	18J0161/IZ
	10.0 5.00 5.00 5.00 5.00 5.00	10.0 5.00 5.00 5.00 5.00 5.00 5.00	10.0 ND 5.00 ND 5.00 ND 5.00 111 5.00 J 3.81 5.00 ND	10.0 ND ug/L 5.00 ND ug/L 5.00 ND ug/L 5.00 111 ug/L 5.00 J 3.81 ug/L 5.00 ND ug/L	10.0 ND ug/L 1	10.0 ND Ug/L 1 10/18/18	10.0 ND Ug/L 1 10/18/18 EPA 200.7



COC Number:

Aurora Environmental Services Inc.

Project: A2730-Travis USD PO Number:

601 Ferry Street Martinez, CA 94553

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)	Samp	ole Type:	Grab		Р	rep 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
	0.0500		טא	mg/L	1	10/15/18	SM 4500 CI G	



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WORK ORDER: 1810065

COC Number:

Aurora Environmental Services Inc.

Project: A2730-Travis USD

601 Ferry Street Martinez, CA 94553 **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

202000 20 (queous)		,,p	0.00			op bace.	000000, 10,	2010 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	3	2.32	ug/L	1	10/18/18	EPA 200.7	18J0161/IZ



COC Number:

Aurora Environmental Services Inc.

Project: A2730-Travis USD

601 Ferry Street

PO Number:

Martinez, CA 94553

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)	Samp	Sample Type: Grab			P	rep 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 CI G	18J0144/IZ



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WORK ORDER: 1810065

COC Number:

Aurora Environmental Services Inc.

601 Ferry Street PO Number:

Martinez, CA 94553

Project Manager: Aurora Environmental Services Inc.

Project #:A2730-Travis USD

Project: A2730-Travis USD

Sample Results (Continued)

Sample Date: October 15, 2018 15:26

Sample: TUSD-Scandia-16

1810065-16 (Aqueous)	Sample Type: Grab				P	rep Date:	October 18, 2018 11:32		
Analyte	Reporting Qual Limit		Result Unit		Dilution Date Factor 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		92.7	ug/L	1	10/18/18	EPA 200.7	18J0161/IZ	
Lead	5.00	3	4.61	ug/L	1	10/18/18	EPA 200.7	1830161/IZ	
Nickel	5.00		ND	ug/L	1	10/18/18	EPA 200.7	18J0161/IZ	
Zinc	5.00		19.0	ug/L	1	10/18/18	EPA 200.7	18J0161/IZ	



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WORK ORDER: 1810065

COC Number:

Aurora Environmental Services Inc.

Project: A2730-Travis USD

601 Ferry Street

PO Number:

Martinez, CA 94553

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 Dilution Date Batch/ **Analyte** Reporting Qual Result Unit Method Factor Analyzed Limit Analyst **Wet Chemistry Total Chlorine** 0.0500 0.100 10/15/18 SM 4500 CI G 18J0144/IZ



COC Number:

Aurora Environmental Services Inc.

Project: A2730-Travis USD

PO Number:

601 Ferry Street Martinez, CA 94553

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: Grah

1810003-07 (Aqueous)	Samp	Sample Type: Grab					October 16, 2018 0:00		
Analyte	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/ Analyst	
Bacteriological Analyses									
E. Coli		******	Absent	present/abs ent	1	10/16/18	SM 9223B	181884/	



COC Number:

Aurora Environmental Services Inc.

Project: A2730-Travis USD

601 Ferry Street Martinez, CA 94553 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)	Samp	Sample Type: Grab					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/



COC Number:

Aurora Environmental Services Inc.

Project: A2730-Travis USD

601 Ferry Street

PO Number:

Martinez, CA 94553

Project Manager: Aurora Environmental Services Inc.

Project #:A2730-Travis USD

Sample Results (Continued)

Sample Date: October 15, 2018 12:09

TUSD-Center-08 Sample:

1810065-08 (Aqueous)

Sample Type: Grab

Data Analyzed by: BioVir

Prep Date:

October 16, 2018 0:00

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



COC Number:

Aurora Environmental Services Inc.

Project: A2730-Travis USD

601 Ferry Street

PO Number:

Martinez, CA 94553

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)	Samp	Grab		P	rep Date:	October 16, 2018 0:00		
Analyte	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/ Analyst
Total Coliform SM9221B							ч	
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.

Project: A2730-Travis USD

601 Ferry Street Martinez, CA 94553 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

Data Analyzed by: BioVir

1810065-09 (Aqueous) Sample Type: Grab Prep Date: October 16, 2018 0:00 Dilution **Analyte** Reporting Date Batch/ Qual Result Unit Method Factor Analyzed Limit Analyst **Bacteriological Analyses** E. Coli Absent present/abs 10/16/18 SM 9223B 181884/ ent



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

1810065-13 (Aqueous)

1810083-13 (Aqueous)	Samp	Sample Type: Grab					October 16, 2018 0:00	
Analyte	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/ Analyst
Bacteriological Analyses								
E. Coli			Absent	present/abs ent	1	10/16/18	SM 9223B	181884/



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WORK ORDER: 1810065

COC Number:

Aurora Environmental Services Inc.

Project: A2730-Travis USD

601 Ferry Street

PO Number:

Martinez, CA 94553 Project Man

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)

Sample Type: Crah

Samp	Sample Type: Grab					October 16, 2018 0:00	
Reporting Limit	Qual	Result	Unit		Date Analyzed	Method	Batch/ Analyst
20		Absent	MPN/100 mL	1	10/16/18	SM 9221 B	181884/
	Reporting Limit	Reporting Qual Limit	Limit	Reporting Qual Result Unit Limit	Reporting Qual Result Unit Factor	Reporting Qual Result Unit Dilution Date Limit Factor Analyzed	Reporting Qual Result Unit Dilution Date Limit Factor Analyzed Method



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

2020003 14 (Aqueous)	Jann	Sample Type: Grab				rep vate:	October 16, 2018 0:00	
Analyte	Reporting Limit	Qual	Result	Unit	Dilution Factor	Date Analyzed	Method	Batch/ Analyst
Bacteriological Analyses								
E. Coli			Absent	present/abs ent	1	10/16/18	SM 9223B	181884/



COC Number:

Aurora Environmental Services Inc.

Project: A2730-Travis USD

601 Ferry Street

PO Number:

Martinez, CA 94553

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

Data Analyzed by: BioVir

Prep Date: October 16, 2018 0:00

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

Total Coliform SM9221B

Total Coliform 20 MPN/100 mL 1 10/16/18 SM 9221 B 181884/



COC Number:

Aurora Environmental Services Inc.

Project: A2730-Travis USD

601 Ferry Street Martinez, CA 94553 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

Data Analyzed by: BioVir

1810065-15 (Aqueous)

1810065-15 (Aqueous)	Samp	Sample Type: Grab			P	rep 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/abs ent	1	10/16/18	SM 9223B	181884/



COC Number:

Aurora Environmental Services Inc.

Project: A2730-Travis USD PO Number:

601 Ferry Street Martinez, CA 94553

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)

	Sample Type: Grab				rep Date:	October 16, 2018 0:00		
Reporting Limit	Qual	Result	Unit	Dilution Factor	Date	Method	Batch/ Analyst	
20	*******	Absent	MPN/100 mL	1	10/16/18	SM 9221 B	181884/	
	Limit	Limit	Limit	Limit Kesuit Onit	Limit Result Unit Factor	Limit Result Unit Factor Analyzed	Limit Result Unit Factor Analyzed Method	



COC Number:

Aurora Environmental Services Inc.

Project: A2730-Travis USD

601 Ferry Street

PO Number:

Martinez, CA 94553

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)	Samp	Sample Type: Grab				Prep Date:		2018 0:00	
Analyte	Reporting Limit	Qual	Result	Unit	Dilution Date Factor Analyzed		Method	Batch/ Analyst	
Bacteriological Analyses									
E. Coli			Absent	present/abs ent	1	10/16/18	SM 9223B	181884 <i>j</i>	



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WORK ORDER: 1810065

COC Number:

Aurora Environmental Services Inc.

Project: A2730-Travis USD

601 Ferry Street Martinez, CA 94553 PO Number:

Project Manager: Aurora Environmental Services Inc.

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Project #: A2730-Travis USD

MPN/100 mL

Sample Results (Continued)

Sample Date: October 15, 2018 15:26

Sample: TUSD-Scandia-16 (Continued)

Sample Type: Grab

20

Data Analyzed by: BioVir

10/16/18

October 16, 2018 0:00

SM 9221 B

181884/

1810065-16 (Aqueous) Prep Date: Dilution **Analyte** Reporting Date Batch/ Qual Result Unit Method Factor Analyzed Limit **Analyst Total Coliform SM9221B** Total Coliform

Absent



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Prepared & Analyzed: Oct-18-18

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.

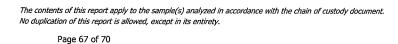
Project #:A2730-Travis USD

Quality Control

Total Metals by EPA 200.7 (ICP-AES)

Analyte	Source Result	Result	Qual	Reporting Limit	Unit	Spike Level	% REC	%REC Limits	RPD	RPD Limit	
Ratch: 1970161									A I	-A- T7	_

Batch: 1830161 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 10.0 500 ug/L 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 5.00 500 ug/L 102 80-120 Zinc 534 5.00 ug/L 500 107 80-120 LCS Dup (18J0161-BSD1) Zinc 529 5.00 500 106 80-120 ug/L 0.926 20 Copper 503 5.00 500 101 80-120 1.37 ug/L 20 Cadmium 508 5.00 500 ug/L 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 5.00 500 ug/L 101 80-120 0.783 20 Chromium 507 5.00 ug/L 500 101 80-120 0.890 20







COC Number:

Aurora Environmental Services Inc.

PO Number:

601 Ferry Street Martinez, CA 94553

Project Manager: Aurora Environmental Services Inc.

Project #:A2730-Travis USD

Project: A2730-Travis USD

Quality Control (Continued)

Wet Chemistry

vvec Chemistry	Prepared & Analyzed: Oct-15-:									
Analyte	Source Result	Result	Qual	Reporting Limit	Unit	Spike Level	% REC	%REC Limits	RPD	RPD Limit
Batch: 18J0144								***************************************	Analy	st: IZ
Blank (18J0144-BLK1) Total Chlorine		ND		0.0500	mg/L					
LCS (18J0144-BS1) Total Chlorine		1.40		0.0500	mg/L	1.50	93.3	80-120		
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. Project: A2730-Travis USD

601 Ferry Street PO Number:

Martinez, CA 94553 Project Manager: Aurora Environmental Services Inc.

Project #:A2730-Travis USD

Notes and Definitions

Item	Definition				
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				
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