

GEOTECHNICAL . ENVIRONMENTAL . MATERIALS



Project No. S2423-07-01 September 20, 2022

VIA ELECTRONIC MAIL

Ryan Chance, PE Senior Civil Engineer City of Folsom 50 Natoma Street Folsom, CA 95630

Subject: WATER ASSESSMENT

AMERICAN RIVER CANYON DRIVE AND OAK AVENUE PARKWAY

FOLSOM, CALIFORNIA

Mr. Chance:

In accordance with our executed agreement (Geocon Proposal LS-22-211) dated July 10, 2022, Geocon Consultants, Inc. (Geocon) has performed an assessment of water seeping the traffic lanes and grassy areas near the intersection of American River Canyon Drive and Oak Avenue Parkway (the Site) in Folsom, California (Figure 1).

This report describes the Site and pertinent background information for the investigation, the methods and procedures used for collection and laboratory chemical analysis of water samples, presents the results of laboratory analysis of the samples, and provides recommendations for further investigation.

BACKGROUND

According to City of Folsom (the City) representatives, water has reportedly been observed seeping out of the asphalt in the eastern-most lanes and shoulder of American River Canyon Drive just north of Oak Avenue Parkway. The adjoining grassy area to the east is also consistently waterlogged despite the installation of a drainage system in this location capable of capturing approximately 5-10 gallons per minute of water.

Potential sources of the seepage water include:

- a leak from nearby waterlines. San Juan Water District (SJWD) is the water provider for residences and businesses near the Site. SJWD sources their water from the nearby Folsom Reservoir. SJWD staff have reportedly tested the integrity of the nearby water lines and determined there is no leak. Should the source of the water be from leaking water lines, we would expect to detect byproducts of SJWD's water treatment processes (disinfection) include chlorine, trihalomethanes (THM), and haloacetic acids (HAA).
- a leak of untreated nearby surface water including Folsom Lake or the Baldwin Reservoir. Should the source of the water be from nearby surface water, we would expect the water chemistry of the seepage water to be similar to the chemical profile for SJWD surface water (absent the disinfection byproducts) published in the San Juan Water Wholesale Customer Agencies' 2021 Consumer Confidence Report (CCR).

• upwelling of deeper groundwater. Should the source of the water be from upwelling deep groundwater, we would expect the water chemistry of the seepage water to be similar to the chemical profile for Citrus Heights Water District (CHWD) groundwater or Fair Oaks Water District (FOWD) groundwater published in the CCR.

A copy of the CCR, which includes concentration ranges for arsenic, barium, fluoride, nitrate as N, turbidity, lead, copper, TDS, specific conductance, sulfate, chloride, bicarbonate alkalinity, hardness, sodium, calcium, magnesium, chlorine, THMs, and HAAs for the SJWD, CHWD, and FOWD is included as an attachment to this report.

The City requested that samples of the seepage water from the street and grassy area be collected and analyzed to determine if the source of the water. The City intends to use the finding of this assessment to determine the appropriate next steps for mitigating the seeping water.

WATER QUALITY SAMPLE COLLECTION AND ANALYSIS

Pre-field Activities

We performed the following pre-field activities:

- Marked the proposed work areas with white paint and contacted local public utilities to delineate subsurface utilities and conduits via Underground Service Alert North.
- Retained California Laboratory Services (CLS) of Rancho Cordova, California, a Californiacertified analytical laboratory, to perform chemical analyses of water samples.
- Prepared a Health and Safety Plan for sample collection activities.
- Arranged for the necessary traffic control with the City.

Site Observations

In the northbound lanes of American River Canyon Drive, we observed water seeping from a crack in the asphalt, which resulted in a puddle within the traffic lane approximately 1.5-inches deep (Figure 2).

We intended to collect a water sample from the grassy area adjacent to the northbound lanes of American River Canyon Drive and advanced hand auger borings HA1 though HA3 (Figure 2) to depths of approximately 6-inches each to look for saturated soil. We observed dry soil with no sign of water seepage in the hand auger borings. We observed saturated soil in the grassy area west of American River Canyon Drive (Figure 2). Water was seeping from the grass into a channel drain installed between the grass and the adjoining sidewalk. We estimate that water was flowing from the grass through the channel drain at approximately 0.5 gallons per minute. We did not measure flow precisely with instrumentation.

Sample Collection

On July 20, 2022, we used a push-broom to displace the accumulated puddle of water in the northbound lane of American River Canyon Drive (Figure 2). This puddle of water recharged to its original size in less than 1 minute. We displaced the puddle of water three times to avoid collecting a sample of stagnant water. We collected a sample by pumping water from the puddle into the laboratory-provided containers using a peristaltic pump. We labeled the sample with a unique sample identification (W-Asphalt), the project name and number, date and time of collection, and the sampler's initials and placed it into a cooler with ice for transport under chain-of-custody procedures to CLS.

- 2. -

In the grassy area, we removed the debris cover from a channel drain on the edge of the lawn and the sidewalk (Figure 2). We cleared the plant debris in a 2-foot section of the channel drain and let water flow freely for approximately 5 minutes. We then pumped the water from the channel drain into the laboratory-provided containers using a peristaltic pump. We labeled the sample with a unique sample identification (W-Grass), the project name and number, date and time of collection, and the sampler's initials and placed it into a cooler with ice for transport under chain-of-custody procedures to CLS.

Laboratory Analysis

CLS analyzed the sample for:

- General minerals (alkalinity, calcium, chloride, fluoride, hardness, potassium, methylene blue active substances [MBAS], magnesium, sodium, nitrate as N, specific conductance, sulfate, total dissolved solids [TDS], & pH) by American Public Health Association (APHA)/United States Environmental Protection Agency (USEPA) methods;
- Drinking water metals (aluminum, antimony, arsenic, barium, beryllium, boron, cadmium, chromium, copper, iron, lead, manganese, mercury, nickel, selenium, silver, thallium, vanadium, and zinc) by USEPA Test Method 200 series;
- Total organic carbon by Standard Method (SM) 5310B;
- Total and residual chlorine by SM 4500;
- THMs by EPA Test Method 524/624; and
- HAAs by EPA Test Method 552.

LABORATORY ANALYSIS RESULTS

As shown on Table 1, residual chlorine, THMs, and HAAs were not detected in either sample except for chloroform in W-Grass, which was detected at a concentration 2.3 micrograms per liter ($\mu g/l$). The following table lists notable analyte detections in both samples.

Analyte	W-Asphalt	W-Grass	Units
TDS	440	250	mg/l
Calcium	110	27	mg/l
Potassium	20	3.1	mg/l
Sulfate	31	17	mg/l
Sodium	22	18	mg/l
Aluminum	8,100	93	μg/l
Arsenic	7.2	ND	μg/l
Barium	810	ND	μg/l
Boron	120	ND	μg/l
Chromium	16	ND	μg/l
Copper	240	ND	μg/l
Iron	8,600	1,500	μg/l

Analyte	W-Asphalt	W-Grass	Units
Lead	51	ND	μg/l
Manganese	1,600	60	μg/l
Nickel	52	ND	μg/l
Vanadium	70	14	μg/l
Zinc	11,000	ND	μg/l

Notes: $\mu g/l = \text{micrograms per liter}$, mg/l - milligrams per liter, ND = non-detect

A copy of the laboratory report is attached.

COMPARISON TO AGENCY REPORTED VALUES

We compared our laboratory analysis results to the chemical profiles for SJWD, CHWD, and FOWD published in the CCR. The lack of residual chlorine and HAAs, along with the minimal detection of THMs in the W-Grass sample only, demonstrate that the seepage is unlikely to be from leaking water lines from SJWD. This finding is consistent with the testing conducted by SJWD, which did not identify of any leaks in the local water lines.

The TDS level, general minerals and drinking water metals are appreciably different than the chemical profile for SJWD surface water. Thus, the seepage appears to not be a result of a leak of untreated surface water.

The TDS level and the concentrations of calcium, sodium, chloride, and sulfate are appreciably different than the chemical profile for CHWD and FOWD groundwater. Thus, the seepage appears to not be a result of an upwelling of deep groundwater.

Based on the lack of similarity of the water chemistry to SJWD, CHWD, and FOWD water profiles, we believe that the seepage may be due to the presence of shallow perched groundwater in the area. Slow, shallow migration of the perched groundwater would result in the water chemistry becoming equilibrated with the natural mineral content of the shallow soils and sediments. We interpret the elevated metals concentrations in the W-Asphalt sample as being due to the accretion of automotive chemicals (e.g., from residual motor oil leakage and brake pad dust) at the depression where the water accumulates along the street.

RECOMMENDATIONS

To further evaluate the occurrence of shallow, perched groundwater, we recommend drilling four borings in and adjacent to the seeps (Figure 2) and installing piezometers in the borings to confirm the presence of perched groundwater and monitor its behavior. The purpose of the borings would be to define the lateral extent and thickness of the layer with perched groundwater, which we can use to design potential future mitigation actions.

With your authorization, we will prepare a proposal for drilling, piezometer installation, and water level monitoring that will be submitted under separate cover.

LIMITATIONS

This report has been prepared exclusively for the City. The information contained herein is only valid as of the date of the report and will require an update to reflect additional information obtained.

We did not perform subsurface investigation as part of this study. If variations in conditions are encountered during later activities, they may alter our conclusion, and we should be notified so that we can evaluate those conditions and provide supplemental recommendations.

The conclusions contained in this report have not been verified through subsurface exploration using drilling methods. Changes in the conditions of a property can occur with the passage of time, whether they are due to natural processes or the works of man on this or adjacent properties. Additionally, changes in resource economics, extraction technologies, utilization patterns, or applicable standards may occur, whether they result from legislation or the broadening of knowledge. Accordingly, the findings of this study may be invalidated partially or wholly by changes outside our control. This report is not a comprehensive characterization and should site not be construed The findings as presented in this report are predicated on the results of the limited sampling and laboratory testing performed.

Our professional services were performed, our findings obtained, and our conclusions developed in accordance with generally accepted geological principles and practices used in this area at this time. No warranty is given, either express or implied.

We appreciate the opportunity to assist you with this project. Please contact the undersigned if you have any questions or comments regarding our report.

Respectfully Submitted,

GEOCON CONSULTANTS, INC.

Lauren E. Short, PG

Project Geologist

Andrew Kopania, PhD, PG, ChG

Senior Hydrogeologist

Josh Ewert, PG Senior Geologist

Attachments: Figure 1, Site Location Map

Figure 2, Site Plan

Table 1, Summary of Laboratory Analysis Results

Laboratory Report with Chain-of-Custody

2021 Consumer Confidence Report

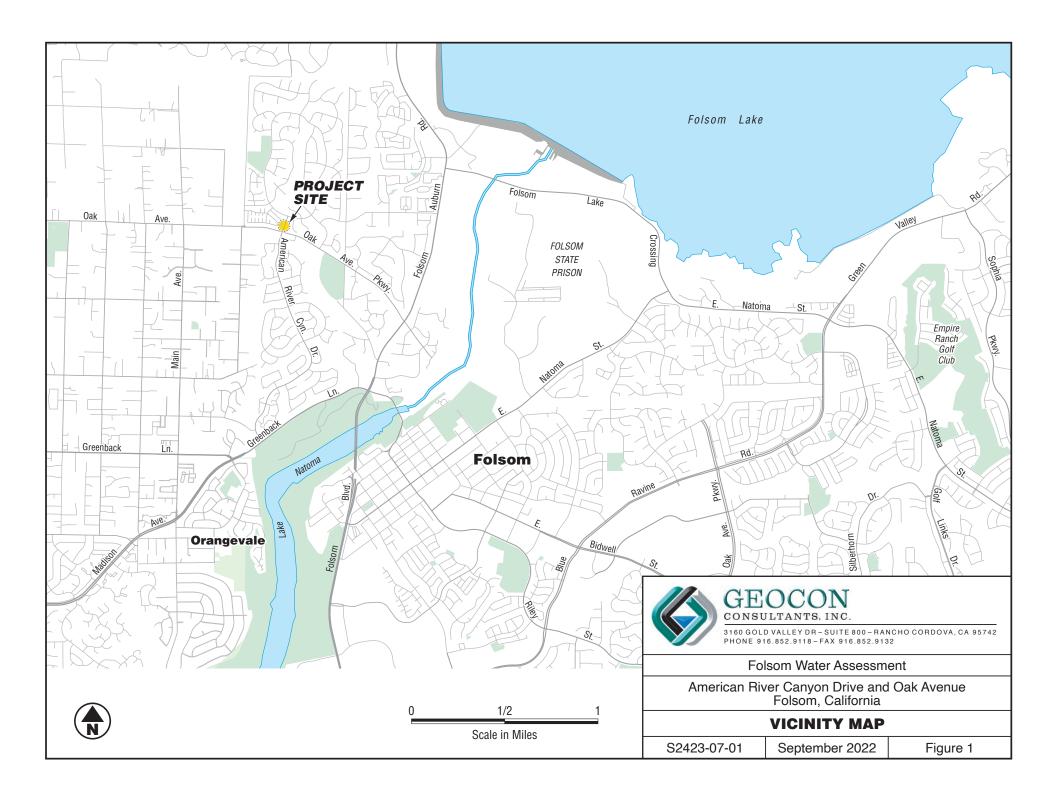




TABLE 1 SUMMARY OF LABORATORY ANALYSIS RESULTS AMERICAN RIVER CANYON DRIVE AND OAK AVENUE PARKWAY FOLSOM, SACRAMENTO COUTY, CALIFORNIA

	FULSUIVI, SA	ACRAMENTO	COULT, CAL			
	Units	W-Asphalt	W-Grass	San Juan Surface Water	Citrus Heights Groundwater	Fair Oaks Groundwater
Aluminum		8,100	93			
Antimony		<4.0	<4.0			
Arsenic		7.2	<2.0	ND	ND-2.2	ND - 3.3
Barium		810	<100	ND	ND-110	ND ND
Beryllium	_	<1.0	<1.0	ND	ND-110	ND
		120	<100			
Boron Cadmium		<1.0	<1.0			
		16	<1.0			
Chromium						
Copper		240	<50	55	83	63
Iron	μg/L	8,600	1,500			
Lead		51	<5.0	ND	ND	ND
Manganese		1600	60			
Mercury		<1.0	<1.0			
Nickel		52	<10			
Selenium		<5.0	<5.0			
Silver		<10	<10			
Thallium		<1.0	<1.0			
Vanadium		70	14			
Zinc		11,000	<50			
Bicarbonate as CaCO3		260	110	12-23	130-180	54-100
Calcium		110	27	4.5-8.3	24-33	13-22
Carbonate as CaCO3		<5.0	<5.0			
Chloride		27	19	1.8	12-18	3.57
Fluoride	mg/L	0.43	0.31	ND	ND-0.18	ND
Hydroxide as CaCO3		<5.0	<5.0			
Magnesium		62	14	1	12-16	4.8-9.6
Nitrate as N		1.2	0.98	ND	1.5-2.9	ND-2.1
pH	std units	7.21	7.17			
Potassium		20	3.1			
Sodium	mg/L	22	18	1.6	16-22	5.3-16
Specific Conductance (EC)	µmhos/cm	450	380	68-110	280-360	120-230
Sulfate as SO4	μσο,σ	31	17	3.8	8.4-12	3.7-16
Total Alkalinity		260	110			
Total Dissolved Solids	-	440	250	30	220-260	110-190
Total Hardness as CaCO3	mg/L	530	120	12	110-150	53-94
Total Organic Carbon	╡	130	4.9			
MBAS as LAS, mol wt 340		<1.0	<0.10			
Total Chlorine	mg/L	<0.10	<0.10			
Residual Chlorine	mg/L	<0.10	<0.10	0.07-1.26	0.14-1.73	0.17-0.86
Bromodichloromethane		<5.0	<0.50			
Bromoform	╡	<5.0	<0.50			
Chloroform	μg/L	<5.0	2.3			
Dibromochloromethane	— μg/∟	<5.0	<0.50			
	-					ND 67
Total Trihalomethanes (THM)		<5.0	2.3	22-43	ND-61	ND-67

TABLE 1 SUMMARY OF LABORATORY ANALYSIS RESULTS AMERICAN RIVER CANYON DRIVE AND OAK AVENUE PARKWAY FOLSOM, SACRAMENTO COUTY, CALIFORNIA

	Units	W-Asphalt	W-Grass	San Juan Surface Water	Citrus Heights Groundwater	Fair Oaks Groundwater
Dibromoacetic Acid		<1.0	<1.0			
Dichloroacetic Acid		<1.0	<1.0			
Monobromoacetic Acid	/1	<1.0	<1.0			
Monochloroacetic Acid	μg/L	<2.0	<2.0			
Trichloroacetic Acid		<1.0	<1.0			
Total Haloacetic Acids (HAA5)		<1.0	<1.0	0.81-2.21		

Notes:

µg/L: micrograms per liter mg/L: milligrams per liter Sample Date: July 20, 2022

µmhos/cm: micromhos per centimeter

std units: standard units

ND: not detected --: not reported

Results reported for San Juan Surface Water, Citrus Heights Groundwater, and Fair Oaks Groundwater are from the 2021 Consumer Confidence Report published by San Juan Water Wholesale Customer Agencies Reported results are ranges except for copper and lead which are reported as 90th percent tiles



July 29, 2022 CLS Work Order #: 22G1149

COC #:

Lauren Short Geocon Consultants 3160 Gold Valley Dr. Suite #800 Rancho Cordova, CA 95742

Project Name: Folsom Water Assessment

Enclosed are the results of analyses for samples received by the laboratory on 07/20/22 12:05. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

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

Sincerely,

Marc Foster, Ph.D. Technical Director

CA SWRCB ELAP Accreditation/Registration number 1233

SHIPPED BY:

☐ FED EX

UPS

OTHER

CLS ID. NO. 22 G1 49

AIR BILL#

Report To: Client Job Number ANALYSIS REQUESTED GEOTRACKER S2423-07-01 Geocon Consultants Destination Laboratory General Minerals* Total and Residual Chlorine ☐ YES X NO Total Organic Carbon SM 5310B Trihalomethanes by Haloacetic acids by Total Drinking Water Metals EPA 2000 series EDF REPORT short@geoconinc.com X CLS (916) 638-7301 GLOBAL ID. Project Manager 3249 Fitzgerald Road Lauren Short - short@geoconinc.com PRESERVATIVES Rancho Cordova, CA Project Name FIELD CONDITIONS 95742 Folsom Water Assessment EPA Test Method EPA Test Method 524/624 www.californialab.com Sampled By Lauren Short OTHER Job Description Determining water chemistry Site Location TURNAROUND SPECIAL Sacramento, CA TIME IN DAYS INSTRUCTIONS CONTAINER Excel EDD SAMPLE FIELD TIM DATE 2 3 IDENTIFICATION ID. MATRIX NO. TYPE Var. X W-Grass water X W-Asphalt Vous water unp. HW03 750 uno. INVOICE TO: short@geoconinc.com * alkalinity, calcium, chloride, fluoride, hardness, potassium, MBAS, magnesium, sodium, nitrate, specific conductance, sulfate, total dissolved solids, & pH PO# **OUOTE#** PRESERVATIVES (1) HCL (3) = COLDSUSPECTED CONSTITUENTS SAMPLE RETENTION TIME (2) HNO-(4)= H2SO4 RELINQUISHED BY (Signature) PRINT NAME/COMPANY DATE/TIME RECEIVED BY (Signature) PRINT NAME/COMPANY 1205 CONDITIONS/COMMENTS: RECEIVED AT LAB BY DATE/TIME: 07

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Geocon Consultants Project: Folsom Water Assessment

3160 Gold Valley Dr. Suite #800 Project Number: S2423-07-01 CLS Work Order #: 22G1149

Rancho Cordova, CA 95742 Project Manager: Lauren Short COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte Resu	Reporting lt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W- Grass (22G1149-01) Water Sampled: 07/20/22 11:15	Received: 07/20/2	2 12:05						
Bicarbonate as CaCO3 110	5.0	mg/L	1	2206249	07/26/22	07/26/22	SM2320B	
Calcium 27	1.0	"	"	2206129	07/22/22	07/28/22	EPA 200.7	
Carbonate as CaCO3 ND	5.0	"	"	2206249	07/26/22	07/26/22	SM2320B	
Chloride 19	0.50	"	"	2206031	07/20/22	07/20/22	EPA 300.0	
Fluoride 0.31	0.10	"	"	"	"	"	"	
Hydroxide as CaCO3 ND	5.0	"	"	2206249	07/26/22	07/26/22	SM2320B	
Magnesium 14	1.0	"	"	2206129	07/22/22	07/22/22	EPA 200.7	
MBAS as LAS, mol wt 340 ND	0.10	"	"	2206120	07/22/22	07/22/22	SM5540 C	
Nitrate as N 0.98	0.40	"	"	2206031	07/20/22	07/20/22	EPA 300.0	
pH 7.17	0.01	pH Units	"	2206040	07/20/22	07/20/22	SM4500-H B	HT-F
Potassium 3.1	1.0	mg/L	"	2206129	07/22/22	07/22/22	EPA 200.7	
Sodium 18	1.0	"	"	"	"	"	"	
Specific Conductance (EC) 380	1.0	μmhos/cm	n "	2206137	07/22/22	07/22/22	SM 2510 B-1997	
Sulfate as SO4 17	0.50	mg/L	"	2206031	07/20/22	07/20/22	EPA 300.0	
Total Alkalinity 110	5.0	"	"	2206249	07/26/22	07/26/22	SM2320B	
Total Chlorine ND	0.10	"	"	2206313	07/21/22	07/21/22	SM 4500-CL-G	HT-F
Total Dissolved Solids 250	10	"	"	2206236	07/26/22	07/27/22	SM2540C	
Total Hardness as CaCO3 120	1.0	"	"	2206129	07/22/22	07/25/22	EPA 200.7	
Total Organic Carbon 4.9	1.0	"	"	2206119	07/22/22	07/22/22	SM5310B	
W- Asphalt (22G1149-02) Water Sampled: 07/20/22 10:30	Received: 07/20	/22 12:05						
Bicarbonate as CaCO3 260	5.0	mg/L	1	2206249	07/26/22	07/26/22	SM2320B	
Calcium 110	1.0	"	"	2206129	07/22/22	07/28/22	EPA 200.7	
Carbonate as CaCO3 ND	5.0	"	"	2206249	07/26/22	07/26/22	SM2320B	
Chloride 27	0.50	"	"	2206031	07/20/22	07/20/22	EPA 300.0	
Fluoride 0.43	0.10	"	"	"	"	"	"	
Hydroxide as CaCO3 ND	5.0	"	"	2206249	07/26/22	07/26/22	SM2320B	
Magnesium 62	1.0	"	"	2206129	07/22/22	07/22/22	EPA 200.7	
MBAS as LAS, mol wt 340 ND	1.0	"	10	2206120	07/22/22	07/22/22	SM5540 C	QRL-5
Nitrate as N 1.2	0.40	"	1	2206031	07/20/22	07/20/22	EPA 300.0	
pH 7.21	0.01	pH Units	"	2206040	07/20/22	07/20/22	SM4500-H B	HT-F

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Geocon Consultants Project: Folsom Water Assessment

3160 Gold Valley Dr. Suite #800 Project Number: S2423-07-01 CLS Work Order #: 22G1149

Rancho Cordova, CA 95742 Project Manager: Lauren Short COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Resul	Reporting t Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W- Asphalt (22G1149-02) Water	Sampled: 07/20/22 10:30	Received: 07/20	0/22 12:05						
Potassium	20	1.0	mg/L	1	2206129	07/22/22	07/22/22	EPA 200.7	
Sodium	22	1.0	"	"	"	"	"	"	
Specific Conductance (EC)	450	1.0	μmhos/cm	n "	2206137	07/22/22	07/22/22	SM 2510 B-1997	
Sulfate as SO4	31	0.50	mg/L	"	2206031	07/20/22	07/20/22	EPA 300.0	
Total Alkalinity	260	5.0	"	"	2206249	07/26/22	07/26/22	SM2320B	
Total Chlorine	ND	0.10	"	"	2206313	07/21/22	07/21/22	SM 4500-CL-G	HT-F
Total Dissolved Solids	440	10	"	"	2206236	07/26/22	07/27/22	SM2540C	
Total Hardness as CaCO3	530	1.0	"	"	2206129	07/22/22	07/25/22	EPA 200.7	
Total Organic Carbon	130	1.0	"	"	2206119	07/22/22	07/22/22	SM5310B	

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Geocon Consultants Project: Folsom Water Assessment

3160 Gold Valley Dr. Suite #800 Project Number: S2423-07-01 CLS Work Order #: 22G1149

Rancho Cordova, CA 95742 Project Manager: Lauren Short COC #:

Metals (Drinking Water) by EPA 200 Series Methods

Analysis	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Analyte	Kesuit	LIIIII	Ullits	Dilution	Datcii	riepaied	Allatyzeu	Method	Notes
W- Grass (22G1149-01) Water S	ampled: 07/20/22 11:15 R	eceived: 07/20/22	2 12:05						
Aluminum	93	50	$\mu g/L$	1	2206073	07/21/22	07/22/22	EPA 200.8	
Antimony	ND	4.0	"	"	"	"	"	"	
Arsenic	ND	2.0	"	"	"	"	"	"	
Barium	ND	100	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Boron	ND	100	"	"	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	ND	10	"	"	"	"	"	"	
Copper	ND	50	"	"	"	"	"	"	
Iron	1500	100	"	"	2206147	07/23/22	07/28/22	EPA 200.7	
Lead	ND	5.0	"	"	2206073	07/21/22	07/22/22	EPA 200.8	
Manganese	60	20	"	"	"	"	"	"	
Mercury	ND	1.0	"	"	2206185	07/25/22	07/26/22	EPA 245.1	
Nickel	ND	10	"	"	2206073	07/21/22	07/22/22	EPA 200.8	
Selenium	ND	5.0	"	"	"	"	"	"	
Silver	ND	10	"	"	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	"	"	
Vanadium	14	3.0	"	"	"	"	"	"	
Zinc	ND	50	"	"	"	"	"	"	
W- Asphalt (22G1149-02) Water	Sampled: 07/20/22 10:30	Received: 07/20/	/22 12:05						
Aluminum	8100	50	μg/L	1	2206073	07/21/22	07/22/22	EPA 200.8	
Antimony	ND	4.0	"	"	"	"	"	"	
Arsenic	7.2	2.0	"	"	"	"	"	"	
Barium	810	100	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Boron	120	100	"	"	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	16	10	"	"	"	"	"	"	
Copper	240	50	"	"	"	"	"	"	
Iron	8600	100	"	"	2206147	07/23/22	07/28/22	EPA 200.7	

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Metals (Drinking Water) by EPA 200 Series Methods

Analyte	Resul	Reporting t Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W- Asphalt (22G1149-02) Water	Sampled: 07/20/22 10:30	Received: 07/20	/22 12:05						
Lead	51	5.0	μg/L	1	2206073	07/21/22	07/22/22	EPA 200.8	
Manganese	1600	20	"	"	"	"	"	"	
Mercury	ND	1.0	"	"	2206185	07/25/22	07/26/22	EPA 245.1	
Nickel	52	10	"	"	2206073	07/21/22	07/22/22	EPA 200.8	
Selenium	ND	5.0	"	"	"	"	"	"	
Silver	ND	10	"	"	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	"	"	
Vanadium	70	3.0	"	"	"	"	"	"	
Zinc	11000	50	"	"	"	"	"	"	

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Geocon Consultants Project: Folsom Water Assessment

3160 Gold Valley Dr. Suite #800 Project Number: S2423-07-01 CLS Work Order #: 22G1149

Rancho Cordova, CA 95742 Project Manager: Lauren Short COC #:

Microbiological Parameters by APHA Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W- Grass (22G1149-01) Water Sampled	: 07/20/22 11:15 Recei	ived: 07/20/22	2 12:05						
Residual Chlorine	ND	0.10	mg/L	1	2206313	07/21/22	07/21/22	SM 4500-CL-G	HT-F
W- Asphalt (22G1149-02) Water Sample	ed: 07/20/22 10:30 Red	ceived: 07/20/	/22 12:05						
Residual Chlorine	ND	0.10	mg/L	1	2206313	07/21/22	07/21/22	SM 4500-CL-G	HT-F

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Geocon Consultants Project: Folsom Water Assessment

3160 Gold Valley Dr. Suite #800 Project Number: S2423-07-01 CLS Work Order #: 22G1149

Rancho Cordova, CA 95742 Project Manager: Lauren Short COC #:

Trihalomethanes by EPA Method 524.2

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W- Grass (22G1149-01) Water Sampled	: 07/20/22 11:15 Rec	eived: 07/20/2	2 12:05						
Bromodichloromethane	ND	0.50	μg/L	1	2206202	07/25/22	07/25/22	EPA 524.2	
Bromoform	ND	0.50	"	"	"	"	"	"	
Chloroform	2.3	0.50	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
Total Trihalomethanes (THM)	2.3	0.50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		86 %	70	0-130	"	"	"	"	
Surrogate: Toluene-d8		86 %	70	0-130	"	"	"	"	
W- Asphalt (22G1149-02) Water Sample	ed: 07/20/22 10:30 R	eceived: 07/20	/22 12:05	5					QRL-4, QRL-8
Bromodichloromethane	ND	5.0	μg/L	10	2206202	07/25/22	07/25/22	EPA 524.2	
Bromoform	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Total Trihalomethanes (THM)	ND	5.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		88 %	70	0-130	"	"	"	"	
Surrogate: Toluene-d8		87 %	70	0-130	"	"	"	"	

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Geocon Consultants Project: Folsom Water Assessment

3160 Gold Valley Dr. Suite #800 Project Number: S2423-07-01 CLS Work Order #: 22G1149

Rancho Cordova, CA 95742 Project Manager: Lauren Short COC #:

Anglita	Dogult	Reporting Limit	Unita	Spike	Source	%REC	%REC	RPD	RPD Limit	Notes
Analyte	Result	Limit	Units	Level	Result	%KEC	Limits	KPD	Limit	Notes
Batch 2206031 - General Prep										
Blank (2206031-BLK1)				Prepared &	Analyzed:	07/20/22				
Chloride	ND	0.50	mg/L							
Sulfate as SO4	ND	0.50	"							
Fluoride	ND	0.10	"							
Nitrate as N	ND	0.40	"							
LCS (2206031-BS1)				Prepared &	Analyzed:	07/20/22				
Sulfate as SO4	4.79	0.50	mg/L	5.00		96	80-120			
Fluoride	1.94	0.10	"	2.00		97	80-120			
Chloride	4.54	0.50	"	5.00		91	80-120			
Nitrate as N	1.83	0.40	"	2.00		92	80-120			
LCS Dup (2206031-BSD1)				Prepared &	Analyzed:	07/20/22				
Chloride	4.75	0.50	mg/L	5.00		95	80-120	5	20	
Fluoride	1.92	0.10	"	2.00		96	80-120	0.8	20	
Sulfate as SO4	5.00	0.50	"	5.00		100	80-120	4	20	
Nitrate as N	1.92	0.40	"	2.00		96	80-120	5	20	
Matrix Spike (2206031-MS1)	Sou	rce: 22G1072-	03	Prepared &	Analyzed:	07/20/22				
Sulfate as SO4	54.0	0.50	mg/L	5.00	38.4	313	80-120			QM-4X
Chloride	54.0	0.50	"	5.00	51.7	46	80-120			QM-4X
Fluoride	2.05	0.10	"	2.00	ND	102	80-120			
Nitrate as N	6.79	0.40	"	2.00	5.02	88	80-120			
Matrix Spike Dup (2206031-MSD1)	Sou	rce: 22G1072-	03	Prepared &	Analyzed:	07/20/22				
Chloride	54.1	0.50	mg/L	5.00	51.7	48	80-120	0.1	20	QM-4X
Fluoride	2.05	0.10	"	2.00	ND	103	80-120	0.4	20	
Sulfate as SO4	41.7	0.50	"	5.00	38.4	67	80-120	26	20	QM-4X
Nitrate as N	6.80	0.40	"	2.00	5.02	89	80-120	0.2	20	

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Geocon Consultants Project: Folsom Water Assessment

3160 Gold Valley Dr. Suite #800 Project Number: S2423-07-01 CLS Work Order #: 22G1149

Rancho Cordova, CA 95742 Project Manager: Lauren Short COC #:

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2206040 - General Preparation										
Duplicate (2206040-DUP1)	Sour	ce: 22G1064	-01	Prepared &	Analyzed:	07/20/22				
рН	7.10	0.01	pH Units		7.10			0.00	20	
Batch 2206119 - General Prep										
Blank (2206119-BLK1)				Prepared &	Analyzed:	07/22/22				
Total Organic Carbon	ND	1.0	mg/L							
LCS (2206119-BS1)				Prepared &	Analyzed:	07/22/22				
Total Organic Carbon	10.7	1.0	mg/L	10.0		107	75-125			
LCS Dup (2206119-BSD1)				Prepared &	Analyzed:	07/22/22				
Total Organic Carbon	10.6	1.0	mg/L	10.0		106	75-125	0.8	25	
Matrix Spike (2206119-MS1)	Sour	ce: 22G1094	-01	Prepared &	Analyzed:	07/22/22				
Total Organic Carbon	12.4	1.0	mg/L	10.0	2.53	99	75-125			
Matrix Spike Dup (2206119-MSD1)	Sour	ce: 22G1094	-01	Prepared &	Analyzed:	07/22/22				
Total Organic Carbon	12.4	1.0	mg/L	10.0	2.53	98	75-125	0.3	25	
Batch 2206120 - General Preparation										
Blank (2206120-BLK1)				Prepared &	Analyzed:	07/22/22				
MBAS as LAS, mol wt 340	ND	0.10	mg/L		-					
LCS (2206120-BS1)				Prepared &	Analyzed:	07/22/22				
MBAS as LAS, mol wt 340	0.422	0.10	mg/L	0.500		84	80-120			

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Geocon Consultants Project: Folsom Water Assessment

3160 Gold Valley Dr. Suite #800 Project Number: S2423-07-01 CLS Work Order #: 22G1149

Rancho Cordova, CA 95742 Project Manager: Lauren Short COC #:

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2206120 - General Preparation										
LCS Dup (2206120-BSD1)				Prepared &	ኔ Analyzed:	07/22/22				
MBAS as LAS, mol wt 340	0.431	0.10	mg/L	0.500		86	80-120	2	20	
Matrix Spike (2206120-MS1)	Sou	rce: 22G1265-	-01	Prepared &	t Analyzed:	07/22/22				
MBAS as LAS, mol wt 340	0.461	0.10	mg/L	0.500	0.0860	75	75-125			
Matrix Spike Dup (2206120-MSD1)	Sou	rce: 22G1265-	-01	Prepared &	ኔ Analyzed:	07/22/22				
MBAS as LAS, mol wt 340	0.455	0.10	mg/L	0.500	0.0860	74	75-125	1	25	QM-7
Batch 2206129 - EPA 200 No Digestion										
Blank (2206129-BLK1)				Prepared: (07/22/22 At	nalvzed: 07	1/25/22			
Total Hardness as CaCO3	ND	1.0	mg/L	P	***************************************					
Calcium	ND	1.0	"							
Hardness as CaCO3	ND	1.0	"							
Magnesium	ND	1.0	"							
Potassium	ND	1.0	"							
Sodium	ND	1.0	"							
LCS (2206129-BS1)				Prepared: (07/22/22 Aı	nalyzed: 07	7/25/22			
Total Hardness as CaCO3	32.8	1.0	mg/L	33.1		99	85-115			
Calcium	4.65	1.0	"	5.00		93	85-115			
Magnesium	4.70	1.0	"	5.00		94	85-115			
Potassium	4.59	1.0	"	5.00		92	85-115			
Sodium	4.61	1.0	"	5.00		92	85-115			
Matrix Spike (2206129-MS1)	Sou	rce: 22G0855-	-01	Prepared: (07/22/22 Aı	nalyzed: 07	7/25/22			
Total Hardness as CaCO3	246	1.0	mg/L	33.1	213	98	70-130			
Calcium	34.7	1.0	"	5.00	30.3	88	70-130			
Magnesium	37.4	1.0	"	5.00	33.6	76	70-130			
Potassium	14.9	1.0	"	5.00	9.99	98	70-130			
Sodium	91.2	1.0	"	5.00	88.0	63	70-130			QM-7

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Geocon Consultants Project: Folsom Water Assessment

3160 Gold Valley Dr. Suite #800 Project Number: S2423-07-01 CLS Work Order #: 22G1149

Rancho Cordova, CA 95742 Project Manager: Lauren Short COC #:

	D 1:	Reporting	***	Spike	Source	N/DEG	%REC	DDD	RPD	N
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2206129 - EPA 200 No Digestion										
Matrix Spike (2206129-MS2)	Sou	rce: 22G1015	5-01RE1	Prepared: (07/22/22 A	nalyzed: 07	//25/22			
Total Hardness as CaCO3	53.4	1.0	mg/L	33.1		161	70-130			QM-
Calcium	7.55	1.0	"	5.00	3.79	75	70-130			
Magnesium	7.26	1.0	"	5.00	3.05	84	70-130			
Potassium	5.57	1.0	"	5.00	1.01	91	70-130			
Sodium	29.8	1.0	"	5.00	25.1	94	70-130			
Batch 2206137 - General Prep										
Blank (2206137-BLK1)				Prepared &	& Analyzed:	07/22/22				
Specific Conductance (EC)	ND	1.0	μmhos/cm							
Duplicate (2206137-DUP1)	Sou	Prepared &	& Analyzed:	07/22/22						
Specific Conductance (EC)	167	1.0	μmhos/cm		161			3.66	20	
Batch 2206236 - General Preparation										
Blank (2206236-BLK1)				Prepared: (07/26/22 A	nalyzed: 07	//27/22			
Total Dissolved Solids	ND	10	mg/L							
Duplicate (2206236-DUP1)	Sou	rce: 22G1149	-01	Prepared: (07/26/22 A	nalyzed: 07	//27/22			
Total Dissolved Solids	252	10	mg/L		245			3	20	
Batch 2206249 - General Preparation										
Blank (2206249-BLK1)				Prepared &	& Analyzed:	07/26/22				
Total Alkalinity	ND	5.0	mg/L							
Bicarbonate as CaCO3	ND	5.0	"							
Carbonate as CaCO3	ND	5.0	"							
Hydroxide as CaCO3	ND	5.0	"							

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Geocon Consultants Project: Folsom Water Assessment

3160 Gold Valley Dr. Suite #800 Project Number: S2423-07-01 CLS Work Order #: 22G1149

Rancho Cordova, CA 95742 Project Manager: Lauren Short COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 2206249 - General Preparation

Duplicate (2206249-DUP1)	Source:	22G1266-	01	Prepared & Analyzed: 07/26/22		
Total Alkalinity	73.0	5.0	mg/L	72.0	1	20
Bicarbonate as CaCO3	73.0	5.0	"	72.0	1	20
Carbonate as CaCO3	ND	5.0	"	ND		20
Hydroxide as CaCO3	ND	5.0	"	ND		20

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Geocon Consultants Project: Folsom Water Assessment

3160 Gold Valley Dr. Suite #800 Project Number: S2423-07-01 CLS Work Order #: 22G1149

Rancho Cordova, CA 95742 Project Manager: Lauren Short COC #:

Reporting

Metals (Drinking Water) by EPA 200 Series Methods - Quality Control

Spike

Source

%REC

RPD

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2206073 - EPA 200 Series										
Blank (2206073-BLK1)				Prepared: (07/21/22 Ar	nalyzed: 07	/22/22			
Aluminum	ND	50	μg/L							
Antimony	ND	4.0	"							
Arsenic	ND	2.0	"							
Barium	ND	100	"							
Beryllium	ND	1.0	"							
Boron	ND	100	"							
Cadmium	ND	1.0	"							
Chromium	ND	10	"							
Copper	ND	50	"							
Lead	ND	5.0	"							
Manganese	ND	20	"							
Nickel	ND	10	"							
Selenium	ND	5.0	"							
Silver	ND	10	"							
Vanadium	ND	3.0	"							
Thallium	ND	1.0	"							
Zinc	ND	50	"							
LCS (2206073-BS1)				Prepared: (07/21/22 Ar	nalyzed: 07	/22/22			
Aluminum	437	50	μg/L	500		87	85-115			
Antimony	86.7	4.0	"	100		87	85-115			
Arsenic	88.4	2.0	"	100		88	85-115			
Barium	90.1	100	"	100		90	85-115			
Beryllium	88.7	1.0	"	100		89	85-115			
Boron	582	100	"	500		116	85-115			QM-
Cadmium	87.9	1.0	"	100		88	85-115			
Chromium	90.3	10	"	100		90	85-115			
Copper	91.6	50	"	100		92	85-115			
Lead	87.0	5.0	"	100		87	85-115			
Manganese	92.0	20	"	100		92	85-115			
Nickel	90.8	10	"	100		91	85-115			
Selenium	94.1	5.0	"	100		94	85-115			

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Geocon Consultants Project: Folsom Water Assessment

3160 Gold Valley Dr. Suite #800 Project Number: S2423-07-01 CLS Work Order #: 22G1149

Rancho Cordova, CA 95742 Project Manager: Lauren Short COC #:

Metals (Drinking Water) by EPA 200 Series Methods - Quality Control

Analysis	Dogult	Reporting	Linita	Spike	Source	0/DEC	%REC	DDD	RPD Limit	Natas
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2206073 - EPA 200 Series										
LCS (2206073-BS1)				Prepared: 0	07/21/22 An	alyzed: 07/	22/22			
Silver	94.5	10	μg/L	100		95	85-115			
Vanadium	93.5	3.0	"	100		94	85-115			
Thallium	88.4	1.0	"	100		88	85-115			
Zinc	88.2	50	"	100		88	85-115			
Matrix Spike (2206073-MS1)	Sour	rce: 22G1139-0	91	Prepared: 0	07/21/22 An	alyzed: 07/	'22/22			
Aluminum	464	50	μg/L	500	ND	93	70-130			
Antimony	91.1	4.0	"	100	ND	91	70-130			
Arsenic	85.5	2.0	"	100	1.27	84	70-130			
Barium	110	100	"	100	14.2	96	70-130			
Beryllium	92.7	1.0	"	100	ND	93	70-130			
Boron	623	100	"	500	175	90	70-130			
Cadmium	91.7	1.0	"	100	ND	92	70-130			
Chromium	87.5	10	"	100	0.607	87	70-130			
Copper	121	50	"	100	32.9	88	70-130			
Lead	87.3	5.0	"	100	0.742	87	70-130			
Manganese	87.6	20	"	100	ND	88	70-130			
Nickel	87.6	10	"	100	1.27	86	70-130			
Selenium	92.0	5.0	"	100	2.73	89	70-130			
Silver	97.7	10	"	100	ND	98	70-130			
Vanadium	91.2	3.0	"	100	1.12	90	70-130			
Thallium	88.7	1.0	"	100	ND	89	70-130			
Zine	129	50	"	100	40.0	89	70-130			
Matrix Spike (2206073-MS2)	Sour	rce: 22G1200-	03	Prepared: 0	07/21/22 An	alyzed: 07/	'22/22			
Aluminum	437	50	μg/L	500	ND	87	70-130			
Antimony	88.3	4.0	"	100	ND	88	70-130			
Arsenic	85.0	2.0	"	100	0.736	84	70-130			
Barium	143	100	"	100	50.4	93	70-130			
Beryllium	96.5	1.0	"	100	ND	97	70-130			
Boron	640	100	"	500	131	102	70-130			
Cadmium	90.3	1.0	"	100	ND	90	70-130			

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3160 Gold Valley Dr. Suite #800 Project Number: S2423-07-01 CLS Work Order #: 22G1149

Rancho Cordova, CA 95742 Project Manager: Lauren Short COC #:

Metals (Drinking Water) by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2206073 - EPA 200 Series										
Matrix Spike (2206073-MS2)	Source	e: 22G1200-	03	Prepared: (07/21/22 Aı	nalyzed: 07	/22/22			
Chromium	90.6	10	μg/L	100	3.46	87	70-130			
Copper	87.9	50	"	100	ND	88	70-130			
Lead	86.2	5.0	"	100	ND	86	70-130			
Manganese	88.2	20	"	100	ND	88	70-130			
Nickel	86.6	10	"	100	ND	87	70-130			
Selenium	88.6	5.0	"	100	2.50	86	70-130			
Silver	95.2	10	"	100	ND	95	70-130			
Vanadium	97.7	3.0	"	100	7.42	90	70-130			
Thallium	87.7	1.0	"	100	ND	88	70-130			
Zine	83.8	50	"	100	ND	84	70-130			
Batch 2206147 - EPA 200 Series										
Blank (2206147-BLK1)				Prepared: (07/23/22 Aı	nalyzed: 07	/27/22			
Iron	ND	100	μg/L							
LCS (2206147-BS1)				Prepared: (07/23/22 Aı	nalyzed: 07	/28/22			
Iron	975	100	μg/L	500		195	85-115			QM-
Matrix Spike (2206147-MS1)	Source	e: 22G1156-	01	Prepared: (07/23/22 Aı	nalyzed: 07	/28/22			
Iron	2090	100	μg/L	500	1720	75	70-130			
Matrix Spike (2206147-MS2)	Source	e: 22G1266-	01	Prepared: (07/23/22 Aı	nalyzed: 07	/27/22			
Iron	525	100	μg/L	500	80.0	89	70-130			
Batch 2206185 - EPA 7470A										
Blank (2206185-BLK1)				Prepared: (07/25/22 Aı	nalyzed: 07	/26/22			

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Geocon Consultants Project: Folsom Water Assessment

3160 Gold Valley Dr. Suite #800 Project Number: S2423-07-01 CLS Work Order #: 22G1149

Rancho Cordova, CA 95742 Project Manager: Lauren Short COC #:

Metals (Drinking Water) by EPA 200 Series Methods - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2206185 - EPA 7470A										
LCS (2206185-BS1)				Prepared: (07/25/22 A	nalyzed: 07	//26/22			
Mercury	5.42	1.0	$\mu g/L$	5.00		108	85-115			
Matrix Spike (2206185-MS1)	Sourc	e: 22G1238-	01	Prepared: 07/25/22 Analyzed: 07/26/22						
Mercury	5.32	1.0	$\mu g/L$	5.00	0.362	99	70-130			
Matrix Spike Dup (2206185-MSD1)	Sourc	e: 22G1238-	01	Prepared: (07/25/22 A	nalyzed: 07	//26/22			
Mercury	4.59	1.0	μg/L	5.00	0.362	85	70-130	15	25	

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Geocon Consultants Project: Folsom Water Assessment

3160 Gold Valley Dr. Suite #800 Project Number: S2423-07-01 CLS Work Order #: 22G1149

Rancho Cordova, CA 95742 Project Manager: Lauren Short COC #:

Trihalomethanes by EPA Method 524.2 - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2206202 - EPA 3510B GCMS										
Blank (2206202-BLK1)				Prepared &	Analyzed:	07/25/22				
Bromodichloromethane	ND	0.50	$\mu g/L$							
Bromoform	ND	0.50	"							
Chloroform	ND	0.50	"							
Dibromochloromethane	ND	0.50	"							
Total Trihalomethanes (THM)	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	8.15		"	10.0		82	70-130			
Surrogate: Toluene-d8	8.57		"	10.0		86	70-130			
LCS (2206202-BS1)				Prepared &	z Analyzed:	07/25/22				
Bromodichloromethane	18.1	0.50	μg/L	20.0		91	70-130			
Bromoform	19.4	0.50	"	20.0		97	70-130			
Chloroform	20.2	0.50	"	20.0		101	70-130			
Dibromochloromethane	18.4	0.50	"	20.0		92	70-130			
Surrogate: 1,2-Dichloroethane-d4	11.3		"	10.0		113	70-130			
Surrogate: Toluene-d8	10.1		"	10.0		101	70-130			
LCS Dup (2206202-BSD1)				Prepared &	Analyzed:	07/25/22				
Bromodichloromethane	18.0	0.50	μg/L	20.0		90	70-130	0.7	30	
Bromoform	20.0	0.50	"	20.0		100	70-130	3	30	
Chloroform	20.0	0.50	"	20.0		100	70-130	1	30	
Dibromochloromethane	17.1	0.50	"	20.0		86	70-130	7	30	
Surrogate: 1,2-Dichloroethane-d4	9.10		"	10.0		91	70-130			
Surrogate: Toluene-d8	8.90		"	10.0		89	70-130			

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Geocon Consultants Project: Folsom Water Assessment

3160 Gold Valley Dr. Suite #800 Project Number: S2423-07-01 CLS Work Order #: 22G1149

Rancho Cordova, CA 95742 Project Manager: Lauren Short COC #:

Notes and Definitions

QRL-8	The extract of this sample was dark and/or oily. Therefore, the sample was analyzed with a dilution and the reporting limit was raised for all target compounds.
QRL-5	The sample was diluted due to the presence of high levels of non-target analytes or matrix interference resulting in elevated reporting limits.
QRL-4	The reporting limits for this analysis are elevated due to sample foaming.
QM-7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS and/or LCSD recovery.
QM-4X	The spike recovery was outside of 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.
QM-1	The spike recovery was outside acceptance limits for the LCS or LCSD. The batch was accepted based on acceptable MS/MSD recoveries & RPD's.
HT-F	This is a field test method and it is performed in the lab outside holding time.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Clinical Laboratory of San Bernardino, Inc.



CLS LabsProject:Haloacetic AcidsWork Order:22G20813249 Fitzgerald Rd.Sub Project:22G1149Received:07/22/22 09:50Rancho Cordova CA, 95742Project Manager:Mark SmithReported:07/26/22

W- Grass		22G2081-0	01 (Water)		Sample Date	: 07/20/22	11:15 Sa	mpler: N	ot Listed
Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Haloacetic Acids Analyses									
Dibromoacetic Acid	EPA 552.2	ND	ug/L	1.0		07/25/22	07/25/22	2231001	
Dichloroacetic Acid	EPA 552.2	ND	ug/L	1.0		07/25/22	07/25/22	2231001	
Monobromoacetic Acid	EPA 552.2	ND	ug/L	1.0		07/25/22	07/25/22	2231001	
Monochloroacetic Acid	EPA 552.2	ND	ug/L	2.0		07/25/22	07/25/22	2231001	
Trichloroacetic Acid	EPA 552.2	ND	ug/L	1.0		07/25/22	07/25/22	2231001	
Total Haloacetic Acids (HAA5)	EPA 552.2	ND	ug/L	1.0	60	07/25/22	07/25/22	2231001	
Surrogate: 2,3-Dibromopropionic Acid	EPA 552.2	77 %				07/25/22	07/25/22	2231001	
W- Asphalt		22G2081-0	02 (Water)		Sample Date	: 07/20/22	10:30 Sa	mpler: N	ot Listed
Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Haloacetic Acids Analyses									
Dibromoacetic Acid	EPA 552.2	ND	ug/L	1.0		07/25/22	07/25/22	2231001	
Dichloroacetic Acid	EPA 552.2	ND	ug/L	1.0		07/25/22	07/25/22	2231001	
Monobromoacetic Acid	EPA 552.2	ND	ug/L	1.0		07/25/22	07/25/22	2231001	
Monochloroacetic Acid	EPA 552.2	ND	ug/L	2.0		07/25/22	07/25/22	2231001	
						0 = 10 = 10 0	0 = 10 = 100	2221001	
Trichloroacetic Acid	EPA 552.2	ND	ug/L	1.0		07/25/22	07/25/22	2231001	
Trichloroacetic Acid Total Haloacetic Acids (HAA5)	EPA 552.2 EPA 552.2	ND ND	ug/L ug/L	1.0 1.0	60	07/25/22 07/25/22	07/25/22	2231001	

QM-08 The surrogate recovery was outside acceptance limits for this sample due to probable matrix interference.

ND Analyte NOT DETECTED at or above the reporting limit

Stu Styles

Client Services Manager

Styles

Clinical Laboratory of San Bernardino, Inc.



CLS LabsProject:Haloacetic AcidsWork Order:22G20813249 Fitzgerald Rd.Sub Project:22G1149Received:07/22/22 09:50Rancho Cordova CA, 95742Project Manager:Mark SmithReported:07/26/22

Haloacetic Acids Analyses - Quality Control

Analyte			Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifier
Batch 2231001 Anal	yst:	DP										
Blank (2231001-BLK1)						Prepared &	Analyzed:	07/25/22				
Dibromoacetic Acid			ND	1.0 ι	ıg/L							
Dichloroacetic Acid			ND	1.0 u	ıg/L							
Monobromoacetic Acid			ND	1.0 u	ıg/L							
Monochloroacetic Acid			ND	2.0 ι	ıg/L							
Trichloroacetic Acid			ND	1.0 u	ıg/L							
Surrogate: 2,3-Dibromopropionic Acid			7.83	υ	ıg/L	10		78	70-130			
Blank (2231001-BLK2)						Prepared &	Analyzed:	07/25/22				
Dibromoacetic Acid			ND	1.0 u	ıg/L							
Dichloroacetic Acid			ND	1.0 u	ıg/L							
Monobromoacetic Acid			ND	1.0 u	ıg/L							
Monochloroacetic Acid			ND	2.0 u	ıg/L							
Trichloroacetic Acid			ND	1.0 u	ıg/L							
Surrogate: 2,3-Dibromopropionic Acid			10.0	υ	ıg/L	10		100	70-130			
LCS (2231001-BS1)						Prepared &	Analyzed:	07/25/22				
Dibromoacetic Acid			4.14	1.0 u	ıg/L	5.0		83	70-130	<u> </u>		<u> </u>
Dichloroacetic Acid			4.67	1.0 u	ıg/L	5.0		93	70-130			
Monobromoacetic Acid			3.95	1.0 u	ıg/L	5.0		79	70-130			
Monochloroacetic Acid			5.54	2.0 υ	ıg/L	5.0		111	70-130			
Trichloroacetic Acid			3.51	1.0 u	ıg/L	5.0		70	70-130			
Surrogate: 2,3-Dibromopropionic Acid			8.45	ι	ıg/L	10		85	70-130			
LCS (2231001-BS2)						Prepared &	Analyzed:	07/25/22				
Dibromoacetic Acid			8.18	1.0 u	ıg/L	10		82	70-130	<u> </u>		
Dichloroacetic Acid			9.70	1.0 ι	ıg/L	10		97	70-130			
Monobromoacetic Acid			9.23	1.0 u	ıg/L	10		92	70-130			
Monochloroacetic Acid			10.2	2.0 υ	ıg/L	10		102	70-130			
Trichloroacetic Acid			7.36	1.0 υ	ıg/L	10		74	70-130			
Surrogate: 2,3-Dibromopropionic Acid			8.29	ι	ıg/L	10		83	70-130			

Clinical Laboratory of San Bernardino, Inc.



CLS LabsProject:Haloacetic AcidsWork Order:22G20813249 Fitzgerald Rd.Sub Project:22G1149Received:07/22/22 09:50Rancho Cordova CA, 95742Project Manager:Mark SmithReported:07/26/22

Haloacetic Acids Analyses - Quality Control

		Reporting	Spike	Source		%Rec		RPD	
Analyte	Result	Limit Units	Level	Result	%Rec	Limits	RPD	Limit	Qualifier
Batch 2231001 Analyst: Di	P								
Matrix Spike (2231001-MS1)	Sourc	e: 22G2081-01	Prepared &	Prepared & Analyzed: 07/25/22					
Dibromoacetic Acid	4.2	1.0 ug/L	5.0	ND	85	70-130			
Dichloroacetic Acid	5.1	1.0 ug/L	5.0	0.2	98	70-130			
Monobromoacetic Acid	4.7	1.0 ug/L	5.0	ND	94	70-130			
Monochloroacetic Acid	5.2	2.0 ug/L	5.0	ND	103	70-130			
Trichloroacetic Acid	5.9	1.0 ug/L	5.0	0.3	112	70-130			
Surrogate: 2,3-Dibromopropionic Acid	8.07	ug/L	10		81	70-130			
Matrix Spike (2231001-MS2)	Sourc	e: 22G2082-01	Prepared &	& Analyzed:	07/25/22				
Dibromoacetic Acid	4.1	1.0 ug/L	5.0	ND	81	70-130			
Dichloroacetic Acid	9.9	1.0 ug/L	5.0	4.5	108	70-130			
Monobromoacetic Acid	4.6	1.0 ug/L	5.0	ND	92	70-130			
Monochloroacetic Acid	5.3	2.0 ug/L	5.0	ND	105	70-130			
Trichloroacetic Acid	13.7	1.0 ug/L	5.0	9.7	80	70-130			
Surrogate: 2,3-Dibromopropionic Acid	8.29	ug/L	10		83	70-130			

QM-08 The surrogate recovery was outside acceptance limits for this sample due to probable matrix interference.

ND Analyte NOT DETECTED at or above the reporting limit

Stu Styles

Client Services Manager

Styles

SUBCONTRACT ORDER

22G1149

22Cn	2081
4401	LUOI

07 20 22 12:05 Water

SENDING LABORATORY:

CLS Labs

3249 Fitzgerald Rd.

Rancho Cordova, CA 95742

Phone: 916-638-7301 Fax: 916-638-4510

Project Manager: Mark Smith

RECEIVING LABORATORY:

Clinica Lan it San Bernardino

21881 Bartin Rilac

Grand Temace, CA 92324

Phone 9.9.9 \$25-7693

Fax: (4)4 \$25-7546

22G1149-92

Analysis	TAT	Due	Expires Laboratory ID Sample Date		Date Received Matrix 2.11:15 07.20.22.12:05 Water		
552.2 HAA SUB	5	07/27/22 12:	00 8 3 22 0 1	5 22G1144-1	27 29 22 H1:15	07 20 22 12:05	Water

Client sample ID: W- Grass

Laboratory sample ID: 22G1149-01 Please use client sample ID on all reports

Containers Supplied:

552.2 HAA SUB

Vial - Ammonium Chlorid Vial - Ammonium Chlorid Vial - Ammonium Chlorid

07 27 22 12:00 | 08 - 3 22 14 3 -

Client sample ID: W- Asphalt

Laboratory sample ID: 22G1149-02

Please use client sample ID on all reports

Containers Satisfacea

Vial - Ammonium Chlorid Vial - Ammonium Chlorid Vial - Ammonium Chlorid

0.90

Relinquished By Date Received By Date

Received By Date

Received By Date

Received By Date

Date

Received By Date

Page 1 of 1



his report is published by the San Juan Wholesale Customer Agencies: San Juan Water District, Citrus Heights Water District, Fair Oaks Water District and Orange Vale Water Company. San Juan Water District provides reliable, high-quality water supplies to our customers. We serve nearly 151,000 customers in our retail and wholesale service areas throughout Sacramento and Placer counties. We test our surface water, which comes from the American River watershed, and our local groundwater for microbiological and chemical quality.

The U.S. Environmental Protection Agency and the State Water Resources Control Board maintain strict water quality standards designed to protect customers from waterborne disease organisms and harmful chemicals. As a public water agency, we are required by the USEPA to provide you with an annual Consumer Confidence Report.

This report provides you with information about drinking water quality and how we comply with drinking water quality standards. As your water provider, we are proud to report this year's CCR concludes that, once again, your drinking water meets all federal and state drinking water standards.

WHERE DOES YOUR WATER COME FROM?

Water from the Agencies comes from two sources: treated surface water and groundwater. San Juan Water District diverts and treats surface water from Folsom Lake. This treated water is then distributed to the Agencies. Orange Vale Water Company and San Juan Water District receive 100 percent of their supply from treated surface water. If you are a consumer of Citrus Heights or Fair Oaks Water Districts, your water is a mixture of treated surface water from San Juan Water District and groundwater from local wells.

SJWD - 100% surface water OVWC - 100% surface water

CHWD - 64% surface water, 36% groundwater FOWD - 67% surface water, 33% groundwater

Source water assessments have been conducted for all the water sources to enable the Agencies to understand the activities that have the greatest potential for contaminating the drinking water supplies. The groundwater sources were assessed in 2002 and the surface water source was evaluated in 2001. New wells for Citrus Heights Water District were assessed in 2008, 2009, and 2015. A new well for Fair Oaks Water District was assessed in 2014. These assessments were conducted in accordance with State Water Board guidelines and copies of the complete assessments are available for review at the respective agency offices.

San Juan Water District conducted the evaluation of the Folsom Lake source. It was found to be most vulnerable to potential contamination from the Folsom Lake State Recreation Area facilities, high-density housing and associated activities such as sewer and septic systems and fertilizer, pesticide and herbicide application, as well as illegal activities and dumping. In addition, San Juan Water District conducts a watershed sanitary survey update every five years for the Folsom Lake source. This survey evaluates the water quality and potential contaminating activities in the watershed to ensure adequate treatment is provided and water quality regulations have been met. The most recent update was completed in December 2018. The source water is typically treated using conventional treatment with filtration and disinfection that is designed to remove many contaminants. Again this year, your water meets all federal and state drinking water standards.

Citrus Heights and Fair Oaks water districts conducted assessments of their local groundwater wells. It was found that all the wells are vulnerable to commercial urban activities, such as active and historic gas stations, dry cleaners, leaking underground storage tanks, known contaminant plumes, automobile repair shops, and sewer collection systems, none of which are associated with any detected contaminants. One well for Fair Oaks Water District was found to be vulnerable to irrigation, associated with low level detects of nitrate.

Although Orange Vale Water Company does not currently utilize available local groundwater, assessments found that wells within their service area would be most vulnerable to rural grazing activities.

WHAT'S IN YOUR WATER?

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in the source water include:

- Microbial contaminants, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, that can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, that may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, that are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, agricultural application, and septic systems.
- Radioactive contaminants, that can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (U.S. EPA) and the State Water Resources Control Board (State Water Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. State Water Board regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the U.S. EPA's Safe Drinking Water Hotline (1-800-426-4791).

A NOTE FOR SENSITIVE POPULATIONS

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. U.S. EPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

GENERAL INFORMATION ON LEAD

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The San Juan Family Agencies are responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at www.epa.gov/lead.

The San Juan Family Agencies also conducts lead tap sampling in schools if requested. No schools requested lead tap sampling in 2021.

KEY TO ABBREVIATIONS

PPB	parts per billion or micrograms per liter (µg/L)
PPM	parts per million or milligrams per liter (mg/L)
pCi/L	picocuries per liter
NTU	nephelometric turbidity units
μS/CM	microsiemens per centimeter
ND	not detected
NR	not required
N/A	not applicable

WATER QUALITY DEFINITIONS

Maximum Contaminant Level (MCL) — The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

Public Health Goal (PHG) — The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

Maximum Contaminant Level Goal (MCLG) — The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the U.S. Environmental Protection Agency.

Maximum Residual Disinfectant Level (MRDL) — The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG) — The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Primary Drinking Water Standard (PDWS) — MCLs, MRDLs and Treatment Techniques (TT) for contaminants that affect health, along with their monitoring and reporting requirements.

Treatment Technique (TT) — A required process intended to reduce the level of a contaminant in drinking water.

Regulatory Action Level (AL) — The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

Notification Level (NL) — Health-based advisory level set by the State Water Board for constituents with no MCL. This is not an enforceable standard, although requirements and recommendations may apply if detected above this level.

UNREGULATED CONTAMINANT MONITORING RULE (UCMR) RESULTS

USEPA requires public water systems to collect data for unregulated constituents in drinking water supplies under the Unregulated Contaminant Monitoring Rule program. Currently, these constituents have no drinking water standards but may be regulated in the future. The fourth round (UCMR4) was conducted from 2018 – 2020.

More information on the UCMR4 round can be found at **www.epa.gov/dwucmr/ fourth-unregulated-contaminant-monitoring-rule**. Fair Oaks Water District was required to monitor in 2018, while San Juan Water District, Citrus Heights Water District, and Orange Vale Water Company conducted sampling in 2019. Several constituents were detected, none at any level of human health concern.

Constituent	Range (ug/L)	Average (ug/L)	Human Health Advisory	Potential Sources
Manganese	ND - 1.9 ¹ ND - 3.24 ² 1.8 - 9.92 ³ 0.56 - 4.9 ⁴	1.9 ¹ 1.05 ² 3.81 ³ 2.72 ⁴	USEPA Lifetime Health Advisory - 300 ug/L State Board Notification Level — 500 ug/L	Naturally-occurring metal
HAA5	ND - 25 ¹ 18.97 - 31.6 ² 19.46 - 21.22 ³ 22.8 - 33 ⁴	6.7 ¹ 21.14 ² 20 ³ 27.1 ⁴	State Water Board Maximum Contaminant Level – 60 ug/L	By-product of drinking water disinfection
HAA6Br	ND - 1.44 ⁴	1.03 ⁴	None	By-product of drinking water disinfection
НАА9	ND - 17 ¹ 15.57 - 32.62 ² 20.04 - 22.21 ³ 23.42 - 34.38 ⁴	14.5 ¹ 24.66 ² 20.85 ³ 28.11 ⁴	None	By-product of drinking water disinfection
Bromide	ND - 32 ¹	24.7 1	None	Naturally-occurring compound

- 1 Fair Oaks Water District (wells, treated surface water from SJWD, and distribution system 2018 and 2019)
- 2 SJWD (treated surface water and distribution system 2019)
- 3 Citrus Heights Water District (wells, treated surface water from SJWD, and distribution system 2019)
- 4 Orange Vale Water Company (treated surface water from SJWD and distribution system 2019)

SAN JUAN WHOLESALE CUSTOMER AGENCIES - 2021 TABLE OF DETECTED CONSTITUENTS

			ETECTE				CONSTITU	JENTS regu	lated to pr	otect you	nealth				
		PHG or (MCLG)	MCL or	San Juan Surface Water Citrus Heights Groundwater Fair Oaks Including Orange Vale Water Company(a)					Oaks Groundw	ater					
CONSTITUENT	UNITS	or [MRDLG]	[MRDL]	RANGE	AVERAGE	YEAR SAMPLED	RANGE	AVERAGE	YEAR Sampled	RANGE	AVERAGE	YEAR SAMPLED	MAJOR SOURCES		
Arsenic	PPB	0.004	10	ND	ND	2019	ND - 2.2	ND	2016, 2019	ND - 3.3	ND	2021	Erosion of natural deposits; runoff from orchards; glass and electronic production waste		
Barium	PPM	2	1	ND	ND	2019	ND - 0.11	ND	2016, 2019	ND	ND	2021	Erosion of natural deposits and wastes from metal refineries		
Fluoride	PPM	1	2.0	ND	ND	2019	ND - 0.18	0.11	2016, 2019	ND	ND	2021	Erosion of natural deposits; discharge from fertilizer and aluminum factories		
Nitrate (as N)	PPM	10	10	ND	ND	2021	1.5 - 2.9	2.4	2021	ND - 2.1	ND	2021	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits		
Uranium	pCi/L	0.43	20	NR	N/A	N/A	ND - 1.3	ND	2017	ND	ND	2018	Erosion of natural deposits		
Chlorine Residual - distribution system	PPM	[4]	[4]	0.07 -1.26 (0.16 - 1.02)	0.62 (0.57)	2021	0.14 - 1.73	0.7	2021	0.17 - 0.86	0.51	2021	Drinking water disinfectant added for treatment		
Total Trihalomethanes - distribution system	PPB	N/A	80	22 - 43 (21 - 66)	39.6 (53.8)	2021	ND - 61	38	2021	ND - 67	41.0	2021	By-product of drinking water disinfection		
Haloacetic Acids - distribution system	PPB	N/A	60	20 - 36 (15 - 58)	28 (31.3)	2021	ND - 67	26	2021	ND - 46	27.0	2021	By-product of drinking water disinfection		
Control of Disinfection By-Product Precursors (TOC) (treated water) (b)	PPM	N/A	TT = 2	0.81 - 2.21	1.12	2021	NR	N/A	N/A	NR	N/A	N/A	Various natural and manmade sources		
CONSTITUENT	UNITS	PHG OR (MCLG)	MCL	LEVELI	OUND	YEAR SAMPLED	LEVEL	FOUND	YEAR SAMPLED	LEVEL I	OUND	YEAR SAMPLED	MAJOR SOURCES		
	NTU	N/A	TT = 1 NTU	0.0	48	2021	N	IR	N/A	N	R	N/A			
Turbidity (b)	% Samples	N/A	TT = ≤0.3 NTU	10	10	2021	N	IR	N/A	NR		N/A	Soil runoff		
CONSTITUENT	UNITS	PHG OR (MCLG)	MCL	HIGHEST MONTHLY RESULT	# MONTHS WITH POSITIVE SAMPLE	YEAR SAMPLED	HIGHEST MONTHLY RESULT	# MONTHS WITH POSITIVE SAMPLE	YEAR Sampled	HIGHEST MONTHLY RESULT	# MONTHS WITH POSITIVE SAMPLE	YEAR SAMPLED	MAJOR SOURCES		
Total Coliform Bacteria	% Samples	(0)	>5% monthly samples positive	2.32 (0)	1 (0)	2021	0	0	2021	0	0	2021	Naturally present in the environment		
CONSTITUENT	UNITS	PHG OR (MCLG)	AL	90th PERCENTILE	# SAMPLED/ # EXCEED AL	YEAR Sampled	90th PERCENTILE	# SAMPLED/ # EXCEED AL	YEAR SAMPLED	90th PERCENTILE	#SAMPLED/ #EXCEED AL	YEAR Sampled	MAJOR SOURCES		
Lead (c)	PPB	0.2	15	ND (ND)	30/0 (30/0)	2021 (2021)	ND	30/0	2021	ND	31/0	2019	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits		
Copper	PPM	0.3	1.3	0.055 (0.1)	30/0 (30/0)	2021 (2021)	0.083	30/0	2021	0.063	31/0	2019	Internal corrosion of household plumbing systems; erosion of natura deposits; leaching from wood preservatives		
		DE	TECTED	SECONDA	RY DRINK	ING WATE	R CONSTI	TUENTS re	gulated for	aesthetic	qualities				
CONSTITUENT	UNITS	PHG or	MCL		Juan Surface W range Vale Wate		Citru	s Heights Groundv	vater	Fair	Oaks Groundwater		MAJOR SOURCES		
CONSTITUENT	UNITS	(MCLG)	WIGE	RANGE	AVERAGE	YEAR SAMPLED	RANGE	AVERAGE	YEAR SAMPLED	RANGE	AVERAGE	YEAR Sampled	MAJON SUUNCES		
Total Dissolved Solids	PPM	N/A	1,000	30	30	2019	220 - 260	245	2016, 2019	110 - 190	148	2021	Runoff/leaching from natural deposits		
Specific Conductance	μS/CM	N/A	1,600	68-110	82.2	2021	280 - 360	325	2016, 2019	120 - 230	183	2021	Substances that form ions when in water		
Sulfate	PPM	N/A	500	3.8	3.8	2019	8.4 - 12	10.6	2016, 2019	3.7 - 16	8.6	2021	Runoff/leaching from natural deposits		
Chloride	PPM	N/A	500	1.8	1.8	2019	12 - 18	15.5	2016, 2019	3.5 - 7	5	2021	Runoff/leaching from natural deposits		
Turbidity	NTU	N/A	5	0.017 - 0.048	0.023	2021	ND - 0.1	ND	2016, 2019	ND	ND	2021	Soil runoff		
							DRINKING	WATER CO	NSTITUEN	TUENTS (d)					
CONSTITUENT	UNITS	PHG or	NL		San Juan Surface Water cluding Orange Vale Water Company Citrus Heights Groundwater		Fair Oaks Groundwater		ater	MAJOR SOURCES					
0011011102111	00	(MCLG)		RANGE	AVERAGE	YEAR SAMPLED	RANGE	AVERAGE	YEAR SAMPLED	RANGE	AVERAGE	YEAR Sampled	MAJOR SUURCES		
Bicarbonate Alkalinity	PPM	N/A	NONE	12-23	18	2021	130 - 180	150	2016, 2019	54 - 100	76.5	2021	Bicarbonate alkalinity is the measure of the capacity of water or any solution to neutralize or "buffer" acids, represented as the bicarbonate ion.		
Hardness	PPM	N/A	NONE	12	12	2019	110 - 150	132.5	2016, 2019	53 - 94	70.6	2021	Hardness is the sum of polyvalent cations present in the water, generally naturally occurring magnesium and calcium.		
Sodium	PPM	N/A	NONE	1.6	1.6	2019	16 - 22	19	2016, 2019	5.3 - 16	9.4	2021	Naturally occurring salt in the water		
Calcium	PPM	N/A	NONE	4.5-8.3	6	2021	24 - 33	29.25	2016, 2019	13 - 22	17	2021	Erosion of natural deposits		
Magnesium	PPM	N/A	NONE	1	1	2019	12 - 16	14.25	2016, 2019	4.8 - 9.6	6.7	2021	Erosion of natural deposits		

⁽a) – Data for OVWC Distribution System is shown in parenthesis.

⁽b) — Only surface water sources must comply with PDWS for Control of Disinfection By-Product Precursors and turbidity. Turbidity is a mesure of the cloudiness of water. We monitor for it because it is a good indicator of the effectiveness of our filtration system.

⁽c) – No schools requested monitoring for lead in 2021.

⁽d) - Unregulated contaminant monitoring helps determine where certain contaminants occur and whether they need to be regulated.

The State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though representative, are more than one year old.



2021 CONSUMER CONFIDENCE REPORT

Yearly Water Quality Report

San Juan Wholesale Customer Agencies

P.O. Box 2157 Granite Bay, CA 95746

Board of Directors

Kenneth H. Miller Pamela Tobin
Dan Rich Manuel Zamorano

Edward J. "Ted" Costa

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien. Favor de comunicarse San Juan Family Agency para asistirlo en español.

Этот отчет содержит важную информацию о вашей питьевой воде. Пожалуйста, свяжитесь с San Juan Family Agency для получения помощи на русском языке.



CONTACT US

If you have any questions about this report or your water supply, please contact your local water provider. Each of the member agencies holds monthly board meetings that are open to the public as indicated below.



Contact Person:

Brian Hensley (916) 725-6873 bhensley@chwd.org chwd.org

Board Meetings:

3rd Wednesday each month 6:30 p.m. 6230 Sylvan Road Citrus Heights



Contact Person:

Paul Siebensohn (916) 844-3513 psiebensohn@fowd.com fowd.com

Board Meetings:

2nd Monday every month 6:30 p.m. 10326 Fair Oaks Boulevard Fair Oaks



Contact Person:

Mark DuBose (916) 988-1693 mdubose@orangevalewater.com orangevalewater.com

Board Meetings:

1st Tuesday each month 4:00 p.m. 9031 Central Avenue Orangevale



Contact Person:

Greg Turner (916) 791-1715 gturner@sjwd.org sjwd.org

Board Meetings:

4th Wednesday each month, except November and December where they occur on the 2nd Wednesday 6:00 p.m. 9935 Auburn-Folsom Road Granite Bay

LEARN MORE ABOUT YOUR WATER AT SJWD.ORG