

**Work Orders:** 3F13159

**Report Date:** 7/24/2023

**Project:** Faucet 2 - Vitae

**Received Date:** 6/13/2023

**Turnaround Time:** Normal

**Phones:** (949) 432-0525

**Fax:**

**Attn:** Evan Rivera

**P.O. #:**

**Client:** The Water Brewery  
1125 Victoria St.  
Costa Mesa, CA 92627

**Billing Code:**

DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • ISO17025 ANAB #L2457.01 • LACSD #10143

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

Dear Evan Rivera,

Enclosed are the results of analyses for samples received 6/13/23 with the Chain-of-Custody document. The samples were received in good condition, at 1.5 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

**Reviewed by:**



Erika C. Alvarenga  
PM Assistant



The Water Brewery  
 1125 Victoria St.  
 Costa Mesa, CA 92627

**Project Number:** Faucet 2 - Vitae

**Project Manager:** Evan Rivera

**Reported:**  
 07/24/2023 12:28

## Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
Faucet 2 - Vitae	Client	3F13159-01	Water	06/13/23 09:30	

## Analyses Accreditation Summary

Analyte	CAS #	Not By NELAP	ANAB ISO 17025
<b>SM 4500Cl-G in Water</b>			
Chlorine Residual, Free	7782-50-5	✓	
Monochloramine	10599-90-3	✓	
Dichloramine	3400-09-7	✓	
<b>SM 9223B in Water</b>			
Total Coliform		✓	
E. coli		✓	

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## Sample Results

Sample: Faucet 2 - Vitae  
3F13159-01 (Water) Sampled: 06/13/23 9:30 by Client

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
<b>Anions by IC, EPA Method 300.0</b>						
<b>Method:</b> EPA 300.0		<b>Instr:</b> LC12				
<b>Batch ID:</b> W3F1160	<b>Preparation:</b> _NONE (LC)	<b>Prepared:</b> 06/14/23 11:09		<b>Analyst:</b> jan		
Fluoride, Total	ND	0.10	mg/l	1	06/14/23	
Nitrate as N	ND	110	ug/l	1	06/14/23 18:29	
Nitrite as N	ND	150	ug/l	1	06/14/23 18:29	
<b>Sulfate as SO4</b>	<b>0.59</b>	0.50	mg/l	1	06/14/23	
<b>Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods</b>						
<b>Method:</b> EPA 350.1		<b>Instr:</b> AA06				
<b>Batch ID:</b> W3F1671	<b>Preparation:</b> _NONE (WETCHEM)	<b>Prepared:</b> 06/20/23 16:01		<b>Analyst:</b> YMT		
Ammonia as N	ND	0.10	mg/l	1	06/22/23	
<b>Method:</b> SM 2540C		<b>Instr:</b> OVEN17				
<b>Batch ID:</b> W3F1313	<b>Preparation:</b> _NONE (WETCHEM)	<b>Prepared:</b> 06/15/23 12:35		<b>Analyst:</b> bel		
Total Dissolved Solids	ND	10	mg/l	1	06/16/23	
<b>Method:</b> SM 4500Cl-G		<b>Instr:</b> UVVIS04				
<b>Batch ID:</b> W3F1132	<b>Preparation:</b> _NONE (WETCHEM)	<b>Prepared:</b> 06/14/23 09:37		<b>Analyst:</b> cpt		
Chlorine Residual, Free	ND	0.050	mg/l	1	06/14/23	*
Chlorine Residual, Total	ND	0.050	mg/l	1	06/14/23 19:29	*
Dichloramine	ND	0.050	mg/l	1	06/14/23	*
Monochloramine	ND	0.050	mg/l	1	06/14/23	*
<b>Metals by EPA 200 Series Methods</b>						
<b>Method:</b> EPA 200.7		<b>Instr:</b> ICP03				
<b>Batch ID:</b> W3F1581	<b>Preparation:</b> EPA 200.2	<b>Prepared:</b> 06/20/23 08:46		<b>Analyst:</b> kvm		
<b>Silica as SiO2, Total</b>	<b>0.72</b>	0.10	mg/l	1	06/21/23	
<b>Method:</b> EPA 200.8		<b>Instr:</b> ICPMS04				
<b>Batch ID:</b> W3F1583	<b>Preparation:</b> EPA 200.2	<b>Prepared:</b> 06/20/23 12:20		<b>Analyst:</b> tyc		
Aluminum, Total	ND	20	ug/l	1	06/21/23	
Antimony, Total	ND	0.50	ug/l	1	06/21/23	
Arsenic, Total	ND	0.50	ug/l	1	06/21/23	
Barium, Total	ND	1.0	ug/l	1	06/21/23	
Beryllium, Total	ND	0.10	ug/l	1	06/21/23	
Cadmium, Total	ND	0.50	ug/l	1	06/21/23	
Chromium, Total	ND	2.0	ug/l	1	06/21/23	
<b>Copper, Total</b>	<b>1.6</b>	1.0	ug/l	1	06/21/23	
Lead, Total	ND	0.20	ug/l	1	06/21/23	
Manganese, Total	ND	1.0	ug/l	1	06/21/23	
Nickel, Total	ND	2.0	ug/l	1	06/21/23	
Selenium, Total	ND	0.50	ug/l	1	06/21/23	
Silver, Total	ND	0.20	ug/l	1	06/21/23	

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## Sample Results

(Continued)

Sample: Faucet 2 - Vitae  
3F13159-01 (Water) Sampled: 06/13/23 9:30 by Client  
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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### Metals by EPA 200 Series Methods (Continued)

<b>Method:</b> EPA 200.8		<b>Instr:</b> ICPMS04				
<b>Batch ID:</b> W3F1583	<b>Preparation:</b> EPA 200.2	<b>Prepared:</b> 06/20/23 12:20	<b>Analyst:</b> tyc			
Thallium, Total	ND	0.20	ug/l	1	06/21/23	
<b>Zinc, Total</b>	<b>34</b>	10	ug/l	1	06/21/23	

<b>Method:</b> EPA 245.1		<b>Instr:</b> HG03				
<b>Batch ID:</b> W3F1748	<b>Preparation:</b> EPA 245.1	<b>Prepared:</b> 06/21/23 10:29	<b>Analyst:</b> KVM			
Mercury, Total	ND	0.050	ug/l	1	06/22/23	

### Microbiological Parameters by Standard Methods

<b>Method:</b> SM 9223B		<b>Instr:</b> INC12				
<b>Batch ID:</b> W3F1158	<b>Preparation:</b> _NONE (MICROBIOLOGY)	<b>Prepared:</b> 06/13/23 15:10	<b>Analyst:</b> rea			
E. coli	ND	1.0	MPN/100mL	1	06/14/23	
Total Coliform	ND	1.0	MPN/100mL	1	06/14/23	

### Perchlorate by EPA 314.0

<b>Method:</b> EPA 314.0		<b>Instr:</b> LC08_Channel1				
<b>Batch ID:</b> W3F1869	<b>Preparation:</b> _NONE (LC)	<b>Prepared:</b> 06/22/23 09:36	<b>Analyst:</b> JAN			
Perchlorate	ND	2.0	ug/l	1	06/23/23	

### PPCPs - Isotope Dilution LCMSMS

<b>Method:</b> EPA 1694M		<b>Instr:</b> LCMS03				
<b>Batch ID:</b> W3F1274	<b>Preparation:</b> _NONE (LC)	<b>Prepared:</b> 06/15/23 09:36	<b>Analyst:</b> jna			
Acetaminophen	ND	5.0	ng/l	1	06/15/23	
Amoxicillin	ND	20	ng/l	1	06/15/23	
Atenolol	ND	4.0	ng/l	1	06/15/23	
Atorvastatin	ND	4.0	ng/l	1	06/15/23	
Caffeine	ND	4.0	ng/l	1	06/15/23	
Carbamazepine	ND	4.0	ng/l	1	06/15/23	
Cotinine	ND	8.0	ng/l	1	06/15/23	
DEET	ND	4.0	ng/l	1	06/15/23	
Diazepam	ND	4.0	ng/l	1	06/15/23	
Erythromycin	ND	5.0	ng/l	1	06/15/23	
Fluoxetine	ND	4.0	ng/l	1	06/15/23	
Meprobamate	ND	4.0	ng/l	1	06/15/23	
Methadone	ND	4.0	ng/l	1	06/15/23	
Sulfamethoxazole	ND	4.0	ng/l	1	06/15/23	
TCEP	ND	10	ng/l	1	06/15/23	
TCP	ND	50	ng/l	1	06/15/23	
Trimethoprim	ND	4.0	ng/l	1	06/15/23	

<i>Surrogate(s)</i>						
Acetaminophen-d4	52%	Conc: 1560	20-500		06/15/23	

3F13159

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## Sample Results

(Continued)

Sample: Faucet 2 - Vitae  
3F13159-01 (Water)

Sampled: 06/13/23 9:30 by Client  
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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### PPCPs - Isotope Dilution LCMSMS (Continued)

Method: EPA 1694M		Instr: LCMS03		
Batch ID: W3F1274	Preparation: _NONE (LC)	Prepared: 06/15/23 09:36		Analyst: jna
Amoxicillin-d4	85%	Conc: 53300	20-500	06/15/23
Atenolol-d7	192%	Conc: 769	20-500	06/15/23
Caffeine-13C3	64%	Conc: 127	20-500	06/15/23
Carbamazepine- 13C2, d2	77%	Conc: 30.8	20-500	06/15/23
Cotinine-d3	158%	Conc: 316	20-500	06/15/23
DEET-d7	103%	Conc: 20.5	20-500	06/15/23
Diazepam-d5	97%	Conc: 1950	20-500	06/15/23
Fluoxetine-d5	103%	Conc: 205	20-500	06/15/23
Methadone-d3	102%	Conc: 40.7	20-500	06/15/23
Sulfamethoxazole-d4	48%	Conc: 97.0	20-500	06/15/23
Trimethoprim-d9	110%	Conc: 220	20-500	06/15/23

Method: EPA 1694M		Instr: LCMS03			
Batch ID: W3F1275	Preparation: _NONE (LC)	Prepared: 06/15/23 09:37		Analyst: jna	
17-a-Ethynylestradiol	ND	4.0	ng/l	1	06/15/23
<b>Bisphenol A</b>	<b>11</b>	10	ng/l	1	06/15/23
Diclofenac	ND	4.0	ng/l	1	06/15/23
Estrone	ND	4.0	ng/l	1	06/15/23
Gemfibrozil	ND	4.0	ng/l	1	06/15/23
Iopromide	ND	4.0	ng/l	1	06/15/23
Naproxen	ND	4.0	ng/l	1	06/15/23
Phenytoin (Dilantin)	ND	4.0	ng/l	1	06/15/23
Primidone	ND	4.0	ng/l	1	06/15/23
Progesterone	ND	4.0	ng/l	1	06/15/23
Salicylic Acid	ND	100	ng/l	1	06/15/23
TDCPP	ND	50	ng/l	1	06/15/23
Testosterone	ND	4.0	ng/l	1	06/15/23
Triclosan	ND	8.0	ng/l	1	06/15/23

Surrogate(s)				
17-a-Ethynylestradiol-d4	87%	Conc: 175	20-500	06/15/23
Bisphenol A-d16	91%	Conc: 183	20-500	06/15/23
Gemfibrozil-d6	89%	Conc: 89.4	20-500	06/15/23
Naproxen-d3	93%	Conc: 185	20-500	06/15/23
Phenytoin-d10	125%	Conc: 250	20-500	06/15/23
Primidone-d5	74%	Conc: 147	20-500	06/15/23
Progesterone-d9	87%	Conc: 174	20-500	06/15/23
Salicylic Acid-d4	100%	Conc: 499	20-500	06/15/23

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## Sample Results

(Continued)

Sample: Faucet 2 - Vitae  
3F13159-01 (Water) Sampled: 06/13/23 9:30 by Client  
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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### PPCPs - Isotope Dilution LCMSMS (Continued)

<b>Method:</b> EPA 1694M		<b>Instr:</b> LCMS03	
<b>Batch ID:</b> W3F1275	<b>Preparation:</b> _NONE (LC)	<b>Prepared:</b> 06/15/23 09:37	
Testosterone-d3	110% Conc: 219	20-500	06/15/23
Triclosan-d3	91% Conc: 363	20-500	06/15/23

<b>Method:</b> EPA 1694M		<b>Instr:</b> LCMS03	
<b>Batch ID:</b> W3F1276	<b>Preparation:</b> _NONE (LC)	<b>Prepared:</b> 06/15/23 09:38	
17-b-Estradiol	ND	4.0 ng/l	1 06/16/23
Ibuprofen	ND	4.0 ng/l	1 06/16/23
Sucralose	ND	20 ng/l	1 06/16/23

Surrogate(s)

17-b-Estradiol-d3	94% Conc: 188	20-500	06/16/23
Ibuprofen-d3	105% Conc: 211	20-500	06/16/23
Sucralose-d6	107% Conc: 1070	20-500	06/16/23

### Radiological Parameters by APHA/EPA Methods

<b>Method:</b> EPA 200.8		<b>Instr:</b> ICPMS04	
<b>Batch ID:</b> W3F1583	<b>Preparation:</b> EPA 200.2	<b>Prepared:</b> 06/20/23 12:20	
Uranium Rad	ND	0.13 pCi/ L	1 06/21/23

### Volatile Organic Compounds by P&T and GC/MS

<b>Method:</b> EPA 524.2		<b>Instr:</b> GCMS14	
<b>Batch ID:</b> W3F1245	<b>Preparation:</b> EPA 5030B	<b>Prepared:</b> 06/15/23 13:25	
1,1,1,2-Tetrachloroethane	ND	0.50 ug/l	1 06/16/23
1,1,1-Trichloroethane	ND	0.50 ug/l	1 06/16/23
1,1,2,2-Tetrachloroethane	ND	0.50 ug/l	1 06/16/23
1,1,2-Trichloroethane	ND	0.50 ug/l	1 06/16/23
1,1-Dichloroethane	ND	0.50 ug/l	1 06/16/23
1,1-Dichloroethene	ND	0.50 ug/l	1 06/16/23
1,1-Dichloropropene	ND	0.50 ug/l	1 06/16/23
1,2,3-Trichlorobenzene	ND	0.50 ug/l	1 06/16/23
1,2,4-Trichlorobenzene	ND	0.50 ug/l	1 06/16/23
1,2,4-Trimethylbenzene	ND	0.50 ug/l	1 06/16/23
1,2-Dichloroethane	ND	0.50 ug/l	1 06/16/23
1,2-Dichloropropane	ND	0.50 ug/l	1 06/16/23
1,3,5-Trimethylbenzene	ND	0.50 ug/l	1 06/16/23
1,3-Dichloropropane	ND	0.50 ug/l	1 06/16/23
1,3-Dichloropropene, Total	ND	0.50 ug/l	1 06/16/23
2,2-Dichloropropane	ND	0.50 ug/l	1 06/16/23
2-Butanone	ND	5.0 ug/l	1 06/16/23
2-Chlorotoluene	ND	0.50 ug/l	1 06/16/23

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## Sample Results

(Continued)

Sample: Faucet 2 - Vitae  
3F13159-01 (Water)

Sampled: 06/13/23 9:30 by Client  
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
<b>Volatile Organic Compounds by P&amp;T and GC/MS (Continued)</b>						
<b>Method:</b> EPA 524.2		<b>Instr:</b> GCMS14				
<b>Batch ID:</b> W3F1245	<b>Preparation:</b> EPA 5030B	<b>Prepared:</b> 06/15/23 13:25		<b>Analyst:</b> cam		
2-Hexanone	ND	5.0	ug/l	1	06/16/23	
4-Chlorotoluene	ND	0.50	ug/l	1	06/16/23	
4-Methyl-2-pentanone	ND	5.0	ug/l	1	06/16/23	
Benzene	ND	0.50	ug/l	1	06/16/23	
Bromobenzene	ND	0.50	ug/l	1	06/16/23	
Bromochloromethane	ND	0.50	ug/l	1	06/16/23	
Bromodichloromethane	ND	0.50	ug/l	1	06/16/23	
Bromoform	ND	0.50	ug/l	1	06/16/23	
Bromomethane	ND	0.50	ug/l	1	06/16/23	
Carbon tetrachloride	ND	0.50	ug/l	1	06/16/23	
Chlorobenzene	ND	0.50	ug/l	1	06/16/23	
Chloroethane	ND	0.50	ug/l	1	06/16/23	
Chloroform	ND	0.50	ug/l	1	06/16/23	
Chloromethane	ND	0.50	ug/l	1	06/16/23	
cis-1,2-Dichloroethene	ND	0.50	ug/l	1	06/16/23	
cis-1,3-Dichloropropene	ND	0.50	ug/l	1	06/16/23	
Dibromochloromethane	ND	0.50	ug/l	1	06/16/23	
Dibromomethane	ND	0.50	ug/l	1	06/16/23	
Dichlorodifluoromethane (Freon 12)	ND	0.50	ug/l	1	06/16/23	
Di-isopropyl ether	ND	2.0	ug/l	1	06/16/23	
Ethyl tert-butyl ether	ND	2.0	ug/l	1	06/16/23	
Ethylbenzene	ND	0.50	ug/l	1	06/16/23	
Freon 113	ND	5.0	ug/l	1	06/16/23	
Hexachlorobutadiene	ND	0.50	ug/l	1	06/16/23	
Isopropylbenzene	ND	0.50	ug/l	1	06/16/23	
m,p-Xylene	ND	0.50	ug/l	1	06/16/23	
m-Dichlorobenzene	ND	0.50	ug/l	1	06/16/23	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/l	1	06/16/23	
Methylene chloride	ND	0.50	ug/l	1	06/16/23	
Naphthalene	ND	0.50	ug/l	1	06/16/23	
n-Butylbenzene	ND	0.50	ug/l	1	06/16/23	
n-Propylbenzene	ND	0.50	ug/l	1	06/16/23	
o-Dichlorobenzene	ND	0.50	ug/l	1	06/16/23	
o-Xylene	ND	0.50	ug/l	1	06/16/23	
p-Dichlorobenzene	ND	0.50	ug/l	1	06/16/23	

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## Sample Results

(Continued)

Sample: Faucet 2 - Vitae  
3F13159-01 (Water) Sampled: 06/13/23 9:30 by Client  
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
<b>Method:</b> EPA 524.2 <span style="float: right;"><b>Instr:</b> GCMS14</span>						
<b>Batch ID:</b> W3F1245		<b>Preparation:</b> EPA 5030B		<b>Prepared:</b> 06/15/23 13:25		<b>Analyst:</b> cam
p-Isopropyltoluene	ND	0.50	ug/l	1	06/16/23	
sec-Butylbenzene	ND	0.50	ug/l	1	06/16/23	
Styrene	ND	0.50	ug/l	1	06/16/23	
Tert-amyl methyl ether	ND	2.0	ug/l	1	06/16/23	
tert-Butylbenzene	ND	0.50	ug/l	1	06/16/23	
Tetrachloroethene	ND	0.50	ug/l	1	06/16/23	
THMs, Total	ND	0.50	ug/l	1	06/16/23	
Toluene	ND	0.50	ug/l	1	06/16/23	
trans-1,2-Dichloroethene	ND	0.50	ug/l	1	06/16/23	
trans-1,3-Dichloropropene	ND	0.50	ug/l	1	06/16/23	
Trichloroethene	ND	0.50	ug/l	1	06/16/23	
Trichlorofluoromethane	ND	0.50	ug/l	1	06/16/23	
Vinyl chloride	ND	0.50	ug/l	1	06/16/23	
Xylenes, Total	ND	0.50	ug/l	1	06/16/23	
<i>Surrogate(s)</i>						
1,2-Dichlorobenzene-d4	111%	Conc: 55.6	70-130		06/16/23	
4-Bromofluorobenzene	112%	Conc: 55.8	70-130		06/16/23	

## Sample Results GEL Laboratories, LLC

Sample: Faucet 2 - Vitae  
3F13159-01 (Water) Sampled: 06/13/23 9:30 by Client

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>EPA 903.1</b>							
<b>Method:</b> EPA 903.1		<b>Batch ID:</b> 2447294		<b>Prepared:</b> 07/03/23 00:00		<b>Analyst:</b> LXP1	
Radium-226	0.0909			pCi/L	1	07/03/23	U
<b>Uncertainty:</b> 0.126		<b>MDA:</b> 0.213					
<b>EPA 904.0/ EPA 9320</b>							
<b>Method:</b> EPA 904.0/ EPA 9320		<b>Batch ID:</b> 2447319		<b>Prepared:</b> 06/29/23 00:00		<b>Analyst:</b> JE1	
Radium-228	0.620			pCi/L	1	06/29/23	
<b>Uncertainty:</b> 0.304		<b>MDA:</b> 0.447					
<i>Surrogate(s)</i>							
Barium Carrier	94.2%		25-125			06/29/23	
Yttrium Carrier	99.1%		25-125			06/29/23	



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## Notes and Definitions

Item	Definition
*	The recommended holding time for this analysis is only 15 minutes. The sample was analyzed as soon as it was possible but it was received and analyzed past holding time.
R-03	The RPD is not applicable for result below the reporting limit (either ND or J value).
U	Result not detected above the detection limit
%REC	Percent Recovery
Dil	Dilution
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.