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Client: Water Systems & Supplies
Address: 12802 Knott Street
Garden Grove, CA 92841

Attn: Heidi Ngo

Comments: The Water Brewery #2
1125 Victoria St., Suite A
Costa Mesa, CA 92627
License #New

Lab Request: 402268
Report Date: 05/10/2018
Date Received: 05/02/2018
Client ID: 7117

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample # **Client Sample ID**

402268-004 The Water Brewery #2

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Report Review performed by: Quynhgio Le, Assistant Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 60 days from date received.

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Matrix: Drinking Water	Client: Water Systems & Supplies	Collector: Client
Sampled: 05/02/2018 09:30	Site:	
Sample #: 402268-004	Client Sample #: The Water Brewery #2	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: EPA 200.8	Prep Method: EPA 3010A					QCBatchID: QC1190771	
Lead	ND	1	5	ug/L	05/03/18	05/03/18	SBW
Method: EPA 524.2	Prep Method: 5030B					QCBatchID: QC1190807	
1,1,1,2-Tetrachloroethane	ND	1	0.5	ug/L		05/04/18	LZ
1,1,1-Trichloroethane	ND	1	0.5	ug/L		05/04/18	LZ
1,1,2,2-Tetrachloroethane	ND	1	0.5	ug/L		05/04/18	LZ
1,1,2-Trichloroethane	ND	1	0.5	ug/L		05/04/18	LZ
1,1,2-Trichlorotrifluoroethane	ND	1	10	ug/L		05/04/18	LZ
1,1-Dichloroethane	ND	1	0.5	ug/L		05/04/18	LZ
1,1-Dichloroethene	ND	1	0.5	ug/L		05/04/18	LZ
1,1-Dichloropropene	ND	1	0.5	ug/L		05/04/18	LZ
1,2,3-Trichlorobenzene	ND	1	0.5	ug/L		05/04/18	LZ
1,2,4-Trichlorobenzene	ND	1	0.5	ug/L		05/04/18	LZ
1,2,4-Trimethylbenzene	ND	1	0.5	ug/L		05/04/18	LZ
1,2-Dibromo-3-chloropropane	ND	1	0.5	ug/L		05/04/18	LZ
1,2-Dibromoethane	ND	1	0.5	ug/L		05/04/18	LZ
1,2-Dichlorobenzene	ND	1	0.5	ug/L		05/04/18	LZ
1,2-Dichloroethane	ND	1	0.5	ug/L		05/04/18	LZ
1,2-Dichloropropane	ND	1	0.5	ug/L		05/04/18	LZ
1,3,5-Trimethylbenzene	ND	1	0.5	ug/L		05/04/18	LZ
1,3-Dichlorobenzene	ND	1	0.5	ug/L		05/04/18	LZ
1,3-Dichloropropane	ND	1	0.5	ug/L		05/04/18	LZ
1,4-Dichlorobenzene	ND	1	0.5	ug/L		05/04/18	LZ
2,2-Dichloropropane	ND	1	0.5	ug/L		05/04/18	LZ
2-Chlorotoluene	ND	1	0.5	ug/L		05/04/18	LZ
4-Chlorotoluene	ND	1	0.5	ug/L		05/04/18	LZ
4-Isopropyltoluene	ND	1	0.5	ug/L		05/04/18	LZ
Benzene	ND	1	0.5	ug/L		05/04/18	LZ
Bromobenzene	ND	1	0.5	ug/L		05/04/18	LZ
Bromochloromethane	ND	1	0.5	ug/L		05/04/18	LZ
Bromodichloromethane	ND	1	0.5	ug/L		05/04/18	LZ
Bromoform	ND	1	0.5	ug/L		05/04/18	LZ
Bromomethane	ND	1	0.5	ug/L		05/04/18	LZ
Carbon Tetrachloride	ND	1	0.5	ug/L		05/04/18	LZ
Chlorobenzene	ND	1	0.5	ug/L		05/04/18	LZ
Chlorodibromomethane	ND	1	0.5	ug/L		05/04/18	LZ
Chloroethane	ND	1	0.5	ug/L		05/04/18	LZ
Chloroform	ND	1	0.5	ug/L		05/04/18	LZ
Chloromethane	ND	1	0.5	ug/L		05/04/18	LZ
cis-1,2-Dichloroethene	ND	1	0.5	ug/L		05/04/18	LZ
cis-1,3-dichloropropene	ND	1	0.5	ug/L		05/04/18	LZ
Dibromomethane	ND	1	0.5	ug/L		05/04/18	LZ
Dichlorodifluoromethane	ND	1	0.5	ug/L		05/04/18	LZ
Ethylbenzene	ND	1	0.5	ug/L		05/04/18	LZ
Hexachlorobutadiene	ND	1	0.5	ug/L		05/04/18	LZ
Isopropylbenzene	ND	1	0.5	ug/L		05/04/18	LZ
m and p-Xylene	ND	1	0.5	ug/L		05/04/18	LZ
Methylene chloride	ND	1	0.5	ug/L		05/04/18	LZ
Methyl-t-butyl Ether (MTBE)	ND	1	3	ug/L		05/04/18	LZ
Naphthalene	ND	1	0.5	ug/L		05/04/18	LZ
N-butylbenzene	ND	1	0.5	ug/L		05/04/18	LZ
N-propylbenzene	ND	1	0.5	ug/L		05/04/18	LZ
o-Xylene	ND	1	0.5	ug/L		05/04/18	LZ

Matrix: Drinking Water	Client: Water Systems & Supplies	Collector: Client
Sampled: 05/02/2018 09:30	Site:	
Sample #: 402268-004	Client Sample #: The Water Brewery #2	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Sec-butylbenzene	ND	1	0.5	ug/L		05/04/18	LZ
Styrene	ND	1	0.5	ug/L		05/04/18	LZ
Tert-butylbenzene	ND	1	0.5	ug/L		05/04/18	LZ
Tetrachloroethene	ND	1	0.5	ug/L		05/04/18	LZ
Toluene	ND	1	0.5	ug/L		05/04/18	LZ
trans-1,2-dichloroethene	ND	1	0.5	ug/L		05/04/18	LZ
trans-1,3-dichloropropene	ND	1	0.5	ug/L		05/04/18	LZ
Trichloroethene	ND	1	0.5	ug/L		05/04/18	LZ
Trichlorofluoromethane	ND	1	5	ug/L		05/04/18	LZ
Vinyl Chloride	ND	1	0.5	ug/L		05/04/18	LZ
Xylenes (Total)	ND	1	0.5	ug/L		05/04/18	LZ
<u>Surrogate</u>	<u>% Recovery</u>		<u>Limits</u>	<u>Notes</u>			
1,2-Dichloroethane-d4 (SUR)	101		70-145				
4-Bromofluorobenzene (SUR)	101		70-145				
Dibromofluoromethane (SUR)	109		70-145				
Toluene-d8 (SUR)	104		70-145				
Method: SM 2540-C	Prep Method: SM 2540-C					QCBatchID: QC1190794	
Total Dissolved Solids	4.80	0.25	2.5	mg/L	05/03/18	05/03/18	TD
Method: SM 9223-B-C	Prep Method: Method					QCBatchID: QC1190836	
Coliform, E. Coli	Absent	1		P/A	05/02/18 19:00	05/03/18 13:35	CO
Coliform, Total	Absent	1		P/A	05/02/18 19:00	05/03/18 13:35	CO

QCBatchID: <u>QC1190771</u>	Analyst: sbailey-woo	Method: EPA 200.8
Matrix: Drinking Water	Analyzed: 05/03/2018	Instrument: AAICP (group)

Blank Summary						
Analyte	Blank Result	Units		RDL	Notes	
QC1190771MB1						
Lead	ND	ug/L		5		

Lab Control Spike/ Lab Control Spike Duplicate Summary											
Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1190771LCS1											
Lead	50		48.9		ug/L	98			85-115		

Matrix Spike/Matrix Spike Duplicate Summary												
Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
		MS	MSD	MS	MSD		MS	MSD		%Rec	RPD	
QC1190771MS1												
Lead	ND	50		52.2		ug/L	104			70-130		
Source: 402268-004												

QCBatchID: <u>QC1190794</u>	Analyst: tdang	Method: SM 2540-C
Matrix: Drinking Water	Analyzed: 05/03/2018	Instrument: CHEM (group)

Blank Summary						
Analyte	Blank Result	Units		RDL	Notes	
QC1190794MB1						
Total Dissolved Solids	ND	mg/L		10		

Lab Control Spike/ Lab Control Spike Duplicate Summary											
Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1190794LCS1											
Total Dissolved Solids	3000		2940		mg/L	98			90-110		

Duplicate Summary						
Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1190794DUP1						
Total Dissolved Solids	1370	1360	mg/L	0.7	5	Source: 402248-001

QCBatchID: **QC1190807**

Analyst: Lucy

Method: EPA 524.2

Matrix: Drinking Water

Analyzed: 05/03/2018

Instrument: VOA-MS (group)

Blank Summary

Analyte	Blank Result	Units	RDL	Notes
QC1190807MB1				
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	
1,1,1-Trichloroethane	ND	ug/L	0.5	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	
1,1,2-Trichloroethane	ND	ug/L	0.5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10	
1,1-Dichloroethane	ND	ug/L	0.5	
1,1-Dichloroethene	ND	ug/L	0.5	
1,1-Dichloropropene	ND	ug/L	0.5	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	
1,2-Dibromo-3-chloropropane	ND	ug/L	0.5	
1,2-Dibromoethane	ND	ug/L	0.5	
1,2-Dichlorobenzene	ND	ug/L	0.5	
1,2-Dichloroethane	ND	ug/L	0.5	
1,2-Dichloropropane	ND	ug/L	0.5	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	
1,3-Dichlorobenzene	ND	ug/L	0.5	
1,3-Dichloropropane	ND	ug/L	0.5	
1,4-Dichlorobenzene	ND	ug/L	0.5	
2,2-Dichloropropane	ND	ug/L	0.5	
2-Chlorotoluene	ND	ug/L	0.5	
4-Chlorotoluene	ND	ug/L	0.5	
4-Isopropyltoluene	ND	ug/L	0.5	
Benzene	ND	ug/L	0.5	
Bromobenzene	ND	ug/L	0.5	
Bromochloromethane	ND	ug/L	0.5	
Bromodichloromethane	ND	ug/L	0.5	
Bromoform	ND	ug/L	0.5	
Bromomethane	ND	ug/L	0.5	
Carbon Tetrachloride	ND	ug/L	0.5	
Chlorobenzene	ND	ug/L	0.5	
Chlorodibromomethane	ND	ug/L	0.5	
Chloroethane	ND	ug/L	0.5	
Chloroform	ND	ug/L	0.5	
Chloromethane	ND	ug/L	0.5	
cis-1,2-Dichloroethene	ND	ug/L	0.5	
cis-1,3-dichloropropene	ND	ug/L	0.5	
Dibromomethane	ND	ug/L	0.5	
Dichlorodifluoromethane	ND	ug/L	0.5	
Ethylbenzene	ND	ug/L	0.5	
Hexachlorobutadiene	ND	ug/L	0.5	
Isopropylbenzene	ND	ug/L	0.5	
m and p-Xylene	ND	ug/L	0.5	
Methylene chloride	ND	ug/L	0.5	
Methyl-t-butyl Ether (MTBE)	ND	ug/L	3	
Naphthalene	ND	ug/L	0.5	
N-butylbenzene	ND	ug/L	0.5	
N-propylbenzene	ND	ug/L	0.5	
o-Xylene	ND	ug/L	0.5	
Sec-butylbenzene	ND	ug/L	0.5	

QCBatchID: <u>QC1190807</u>	Analyst: lucy	Method: EPA 524.2
Matrix: Drinking Water	Analyzed: 05/03/2018	Instrument: VOA-MS (group)

Analyte	Blank Result	Units	RDL	Notes
QC1190807MB1				
Styrene	ND	ug/L	0.5	
Tert-butylbenzene	ND	ug/L	0.5	
Tetrachloroethene	ND	ug/L	0.5	
Toluene	ND	ug/L	0.5	
trans-1,2-dichloroethene	ND	ug/L	0.5	
trans-1,3-dichloropropene	ND	ug/L	0.5	
Trichloroethene	ND	ug/L	0.5	
Trichlorofluoromethane	ND	ug/L	5	
Vinyl Chloride	ND	ug/L	0.5	
Xylenes (Total)	ND	ug/L	0.5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1190807LCS1											
1,1-Dichloroethene	50		41		ug/L	82			59-172		
Benzene	50		44		ug/L	88			62-137		
Chlorobenzene	50		46		ug/L	92			60-133		
Methyl-t-butyl Ether (MTBE)	50		41		ug/L	82			62-137		
Toluene	50		45		ug/L	90			59-139		
Trichloroethene	50		45		ug/L	90			66-142		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	Amount	MS	MSD	MS	MSD		MS	MSD		%Rec	RPD	
QC1190807MS1												
Source: 402254-002												
1,1-Dichloroethene	ND	50		43		ug/L	86			59-172		
Benzene	ND	50		45		ug/L	90			62-137		
Chlorobenzene	ND	50		49		ug/L	98			60-133		
Methyl-t-butyl Ether (MTBE)	ND	50		42		ug/L	84			62-137		
Toluene	ND	50		46		ug/L	92			59-139		
Trichloroethene	ND	50		46		ug/L	92			66-142		

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than RDL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
BQ4	Minor Dissolved Oxygen loss was observed in the blank water check, however, the LCS was within criteria, validating the batch.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
D3	Insufficient sample was supplied for TCLP. Client was notified. TCLP was performed per the Client's instructions.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
P3	Per Client request, sample was composited for volatile analysis. Sample compositing for volatile analysis is not recommended due to potential loss of target analytes. Results may be biased low.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
S3	Internal Standard did not meet recovery limits. Analyte concentration is estimated.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds