



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2006098

Report Created for: H2O Water Company

1256 W Winton Ave.
Hayward, CA 94545

Project Contact: Frank Cheng

Project P.O.:

Project:

Project Received: 06/02/2020

Analytical Report reviewed & approved for release on 07/15/2020 by:

Jennifer Lagerbom
Project Manager

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Glossary of Terms & Qualifier Definitions

Client: H2O Water Company

Project:

WorkOrder: 2006098

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Glossary of Terms & Qualifier Definitions

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Analytical Qualifiers

B	Analyte detected in the associated Method Blank and in the sample
J	Result is less than the RL/ML but greater than the MDL. The reported concentration is an estimated value.
N	Collection date and/or time not provided
a7	Reporting limit raised due to limited sample amount

Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validates the prep batch.
F2	LCS/LCSD recovery and/or RPD/RSD is out of acceptance criteria.



Analytical Report

Client: H2O Water Company

Date Received: 06/02/2020 15:55

Date Prepared: 06/09/2020

Project:

WorkOrder: 2006098

Extraction Method: E300.1

Analytical Method: E300.1

Unit: µg/L

Inorganic Anions - Disinfection By-Products

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
H2O	2006098-001A	Water	<Not Provided>	IC5 06092012.D	199702

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Bromate	ND	N	0.20	5.0	1	06/09/2020 01:03
Chlorate	3.5	N	0.40	2.0	1	06/09/2020 01:03

Analyst(s): AO



Analytical Report

Client: H2O Water Company

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WorkOrder: 2006098

Extraction Method: E300.1

Analytical Method: E300.1

Unit: mg/L

Inorganic Anions by IC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
H2O	2006098-001A	Water	<Not Provided>	IC4 06032011.D	199374

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Fluoride	ND	N	0.044	0.10	1	06/02/2020 19:30
Nitrate as N	ND	N	0.053	0.10	1	06/02/2020 19:30
Nitrate as NO ₃ ⁻	ND	N	0.23	0.44	1	06/02/2020 19:30
Nitrite as N	0.055	JN	0.047	0.10	1	06/02/2020 19:30
Nitrite as NO ₂ ⁻	0.18	JN	0.15	0.33	1	06/02/2020 19:30
Nitrate & Nitrite as N	0.055	JN	NA	0.10	1	06/02/2020 19:30
Sulfate	ND	N	0.086	0.10	1	06/02/2020 19:30

Surrogates	REC (%)	Limits	
Malonate	100	85-115	06/02/2020 19:30

Analyst(s): AO



Analytical Report

Client: H2O Water Company
Date Received: 06/02/2020 15:55
Date Prepared: 06/03/2020
Project:

WorkOrder: 2006098
Extraction Method: E505
Analytical Method: E505
Unit: µg/L

Organochlorine Pesticides & PCBs

Client ID	Lab ID	Matrix	Date Collected			Instrument	Batch ID
H2O	2006098-001A	Water	<Not Provided>			GC40 06032085.d	199455

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
a-BHC	ND	N	0.0017	0.010	1	06/04/2020 07:39
b-BHC	ND	N	0.0023	0.0050	1	06/04/2020 07:39
d-BHC	ND	N	0.0013	0.0050	1	06/04/2020 07:39
g-BHC	ND	N	0.0018	0.020	1	06/04/2020 07:39
Chlordane (Technical)	ND	N	0.050	0.10	1	06/04/2020 07:39
a-Chlordane	ND	N	0.0018	0.050	1	06/04/2020 07:39
g-Chlordane	ND	N	0.0033	0.050	1	06/04/2020 07:39
p,p-DDT	ND	N	0.0017	0.010	1	06/04/2020 07:39
Endosulfan I	ND	N	0.0016	0.020	1	06/04/2020 07:39
Endosulfan II	ND	N	0.0011	0.020	1	06/04/2020 07:39
Endosulfan sulfate	ND	N	0.0017	0.050	1	06/04/2020 07:39
Endrin	ND	N	0.0010	0.010	1	06/04/2020 07:39
Endrin Aldehyde	ND	N	0.0029	0.050	1	06/04/2020 07:39
Endrin ketone	ND	N	0.0012	0.050	1	06/04/2020 07:39
Heptachlor Epoxide	ND	N	0.0015	0.010	1	06/04/2020 07:39
Hexachlorobenzene	ND	N	0.0016	0.50	1	06/04/2020 07:39
Hexachlorocyclopentadiene	ND	N	0.0018	1.0	1	06/04/2020 07:39
Heptachlor	ND	N	0.0019	0.010	1	06/04/2020 07:39
Methoxychlor	ND	N	0.0029	0.10	1	06/04/2020 07:39
Toxaphene	ND	N	0.23	0.50	1	06/04/2020 07:39
Aroclor1016	ND	N	0.12	0.50	1	06/04/2020 07:39
Aroclor1221	ND	N	0.18	0.50	1	06/04/2020 07:39
Aroclor1232	ND	N	0.13	0.50	1	06/04/2020 07:39
Aroclor1242	ND	N	0.080	0.50	1	06/04/2020 07:39
Aroclor1248	ND	N	0.28	0.50	1	06/04/2020 07:39
Aroclor1254	ND	N	0.16	0.50	1	06/04/2020 07:39
Aroclor1260	ND	N	0.11	0.50	1	06/04/2020 07:39
PCBs, total	ND	N	N/A	0.50	1	06/04/2020 07:39

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	88	70-130	06/04/2020 07:39
Analyst(s): CN			



Analytical Report

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Date Received: 06/02/2020 15:55
Date Prepared: 06/04/2020
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Extraction Method: SW8151A
Analytical Method: E515.3
Unit: µg/L

Chlorinated Herbicides

Client ID	Lab ID	Matrix	Date Collected			Instrument	Batch ID
H2O	2006098-001A	Water	<Not Provided>			GC15A 06032027.D	199486
<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>	
Bentazon	ND	N	0.17	1.0	1	06/04/2020 17:24	
2,4-D (Dichlorophenoxyacetic acid)	ND	N	0.35	1.0	1	06/04/2020 17:24	
Dalapon	ND	N	0.47	1.0	1	06/04/2020 17:24	
DCPA (mono & diacid)	ND	N	0.12	0.20	1	06/04/2020 17:24	
Dicamba	ND	N	0.27	1.0	1	06/04/2020 17:24	
Dinoseb (DNBP)	ND	N	0.072	1.0	1	06/04/2020 17:24	
Pentachlorophenol (PCP)	ND	N	0.065	0.20	1	06/04/2020 17:24	
Picloram	ND	N	0.27	1.0	1	06/04/2020 17:24	
2,4,5-TP (Silvex)	ND	N	0.099	1.0	1	06/04/2020 17:24	
<u>Surrogates</u>	<u>REC (%)</u>				<u>Limits</u>		
DCAA	94				70-130	06/04/2020 17:24	
<u>Analyst(s):</u> DP							



Analytical Report

Client: H2O Water Company
Date Received: 06/02/2020 15:55
Date Prepared: 06/12/2020
Project:

WorkOrder: 2006098
Extraction Method: E524.2
Analytical Method: E524.2
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
H2O	2006098-001A	Water	<Not Provided>	GC16 06112035.D	199794

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Benzene	ND	N	0.039	0.50	1	06/12/2020 10:45
Bromodichloromethane	ND	N	0.24	0.50	1	06/12/2020 10:45
Bromoform	ND	N	0.097	0.50	1	06/12/2020 10:45
Carbon tetrachloride	ND	N	0.092	0.50	1	06/12/2020 10:45
Chlorobenzene	ND	N	0.040	0.50	1	06/12/2020 10:45
Chloroform	0.046	JN	0.039	0.50	1	06/12/2020 10:45
Dibromochloromethane	ND	N	0.14	0.50	1	06/12/2020 10:45
1,2-Dichlorobenzene	ND	N	0.073	0.50	1	06/12/2020 10:45
1,4-Dichlorobenzene	ND	N	0.064	0.50	1	06/12/2020 10:45
1,2-Dichloroethane (1,2-DCA)	ND	N	0.053	0.50	1	06/12/2020 10:45
1,1-Dichloroethene	ND	N	0.061	0.50	1	06/12/2020 10:45
cis-1,2-Dichloroethene	ND	N	0.058	0.50	1	06/12/2020 10:45
trans-1,2-Dichloroethene	ND	N	0.12	0.50	1	06/12/2020 10:45
1,2-Dichloropropane	ND	N	0.041	0.50	1	06/12/2020 10:45
Ethylbenzene	ND	N	0.21	0.50	1	06/12/2020 10:45
Methylene chloride	ND	N	0.35	0.50	1	06/12/2020 10:45
Styrene	ND	N	0.30	0.50	1	06/12/2020 10:45
Tetrachloroethene	ND	N	0.053	0.50	1	06/12/2020 10:45
Toluene	ND	N	0.080	0.50	1	06/12/2020 10:45
1,2,4-Trichlorobenzene	ND	N	0.27	0.50	1	06/12/2020 10:45
1,1,1-Trichloroethane	ND	N	0.10	0.50	1	06/12/2020 10:45
1,1,2-Trichloroethane	ND	N	0.064	0.50	1	06/12/2020 10:45
Trichloroethene	ND	N	0.042	0.50	1	06/12/2020 10:45
Vinyl chloride	ND	N	0.064	0.50	1	06/12/2020 10:45
m,p-Xylene	ND	N	0.34	0.50	1	06/12/2020 10:45
o-Xylene	ND	N	0.066	0.50	1	06/12/2020 10:45
Xylenes, Total	ND	N	N/A	0.50	1	06/12/2020 10:45

Surrogates	REC (%)	Limits	
Dibromofluoromethane	100	70-130	06/12/2020 10:45
Toluene-d8	105	70-130	06/12/2020 10:45
4-BFB	97	70-130	06/12/2020 10:45

Analyst(s): KF



Analytical Report

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Extraction Method: E524.3

Analytical Method: E524.3

Unit: µg/L

EDB and DBCP

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
H2O	2006098-001A	Water	<Not Provided>	GC45 06082024.D	199838

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
1,2-Dibromo-3-chloropropane	ND	N	0.0077	0.010	1	06/09/2020 16:44
1,2-Dibromoethane (EDB)	ND	N	0.0076	0.010	1	06/09/2020 16:44

Surrogates	REC (%)	Limits	
tert-Butyl methyl ether-d3	83	70-130	06/09/2020 16:44
4-BFB	102	70-130	06/09/2020 16:44
1,2-dichlorobenzene-d4	108	70-130	06/09/2020 16:44

Analyst(s): JEM



Analytical Report

Client: H2O Water Company

Date Received: 06/02/2020 15:55

Date Prepared: 06/04/2020

Project:

WorkOrder: 2006098

Extraction Method: E525.2

Analytical Method: E525.2

Unit: µg/L

Nitrogen and Phosphorous containing Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
H2O	2006098-001A	Water	<Not Provided>	GC25 F0608201019.D	199519

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Alachlor	ND	N	0.11	0.26	1	06/08/2020 23:59
Atrazine	ND	N	0.15	0.26	1	06/08/2020 23:59
Diazinon	ND	N	0.14	0.26	1	06/08/2020 23:59
Molinate	ND	N	0.10	0.26	1	06/08/2020 23:59
Simazine	ND	N	0.22	0.26	1	06/08/2020 23:59
Thiobencarb	ND	N	0.095	0.26	1	06/08/2020 23:59

Surrogates	REC (%)	Limits	
1-Bromo-2-Nitrobenzene	88	60-130	06/08/2020 23:59

Analyst(s): STA

Analytical Comments: a7



Analytical Report

Client: H2O Water Company

Date Received: 06/02/2020 15:55

Date Prepared: 06/08/2020

Project:

WorkOrder: 2006098

Extraction Method: E525.2

Analytical Method: E525.2

Unit: µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
H2O	2006098-001A	Water	<Not Provided>	GC35 06092022.D	199662

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Benzo (a) pyrene	ND	N	0.040	0.040	1	06/09/2020 19:59
Bis (2-ethylhexyl) Adipate	ND	N	0.20	0.20	1	06/09/2020 19:59
Bis (2-ethylhexyl) Phthalate	ND	N	0.20	0.20	1	06/09/2020 19:59

Surrogates	REC (%)	Limits	
Triphenyl phosphate	83	70-130	06/09/2020 19:59

Analyst(s): HD



Analytical Report

Client: H2O Water Company

Date Received: 06/02/2020 15:55

Date Prepared: 06/03/2020

Project:

WorkOrder: 2006098

Extraction Method: E548.1

Analytical Method: E548.1

Unit: µg/L

Endothall by GC-MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
H2O	2006098-001A	Water	<Not Provided>	GC8 06042007.D	199410

<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Endothall	ND	N	4.4	20	1	06/04/2020 15:55

Analyst(s): TD



Analytical Report

Client: H2O Water Company

Date Received: 06/02/2020 15:55

Date Prepared: 06/05/2020

Project:

WorkOrder: 2006098

Extraction Method: E549.2

Analytical Method: E549.2

Unit: µg/L

Diquat and Paraquat

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
H2O	2006098-001A	Water	<Not Provided>	HPLC2 06052021.D	199600

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Diquat	ND	N	1.6	4.0	1	06/05/2020 13:16
Paraquat	ND	N	3.5	4.0	1	06/05/2020 13:16

Analyst(s): ANL



Analytical Report

Client: H2O Water Company

Date Received: 06/02/2020 15:55

Date Prepared: 06/04/2020

Project:

WorkOrder: 2006098

Extraction Method: E552.2

Analytical Method: E552.2

Unit: µg/L

Haloacetic Acids

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
H2O	2006098-001A	Water	<Not Provided>	GC50 06042012.d	199485

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Dibromoacetic acid (DBAA)	ND	N	0.027	0.13	1	06/04/2020 22:13
Dichloroacetic acid (DCAA)	ND	N	0.051	0.13	1	06/04/2020 22:13
Monobromoacetic acid (MBAA)	ND	N	0.058	0.13	1	06/04/2020 22:13
Monochloroacetic acid (MCAA)	ND	N	0.068	0.27	1	06/04/2020 22:13
Trichloroacetic acid (TCAA)	ND	N	0.057	0.13	1	06/04/2020 22:13
HAA5	ND	N	NA	1.0	1	06/04/2020 22:13

Surrogates	REC (%)	Limits
2,3-Dibromopropionic Acid	100	70-130

Analyst(s): DP



Analytical Report

Client: H2O Water Company

Date Received: 06/02/2020 15:55

Date Prepared: 06/04/2020

Project:

WorkOrder: 2006098

Extraction Method: E200.8

Analytical Method: E200.8

Unit: µg/L

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected			Instrument	Batch ID
H2O	2006098-001A	Water	<Not Provided>			ICP-MS2 014SMPL.D	199434
<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>	
Aluminum	ND	N	0.88	50	1	06/10/2020 10:36	
Antimony	ND	N	0.060	6.0	1	06/10/2020 10:36	
Arsenic	ND	N	0.53	2.0	1	06/10/2020 10:36	
Barium	ND	N	0.12	100	1	06/10/2020 10:36	
Beryllium	ND	N	0.060	1.0	1	06/10/2020 10:36	
Cadmium	ND	N	0.030	1.0	1	06/10/2020 10:36	
Chromium	ND	N	0.090	10	1	06/10/2020 10:36	
Copper	ND	N	0.090	10	1	06/10/2020 10:36	
Lead	ND	N	0.010	0.50	1	06/10/2020 10:36	
Manganese	ND	N	1.6	20	1	06/10/2020 10:36	
Mercury	0.034	JN	0.010	1.0	1	06/10/2020 10:36	
Nickel	ND	N	0.15	10	1	06/10/2020 10:36	
Selenium	ND	N	0.42	5.0	1	06/10/2020 10:36	
Silver	ND	N	0.070	10	1	06/10/2020 10:36	
Thallium	0.028	JN	0.010	1.0	1	06/10/2020 10:36	
Zinc	0.59	JBN	0.13	50	1	06/10/2020 10:36	

Analyst(s): WV



Analytical Report

Client: H2O Water Company

Date Received: 06/02/2020 15:55

Date Prepared: 06/02/2020

Project:

WorkOrder: 2006098

Extraction Method: SM4500-Cl G

Analytical Method: SM4500-Cl G

Unit: mg/L

Free Chlorine by DPD Colorimetric Method

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
H2O	2006098-001A	Water	<Not Provided>	SPECTROPHOTOMETER	199407

<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Free Chlorine	ND	N	0.040	0.040	1	06/02/2020 19:37

Analyst(s): HAD



Analytical Report

Client: H2O Water Company
Date Received: 06/02/2020 15:55
Date Prepared: 06/04/2020
Project:

WorkOrder: 2006098
Extraction Method: SM4500-Cl G
Analytical Method: SM4500-Cl G
Unit: mg/L

Total Chlorine by DPD Colorimetric Method

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
H2O	2006098-001A	Water	<Not Provided>	SPECTROPHOTOMETER	199408

<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Chlorine	ND	N	0.040	0.040	1	06/04/2020 10:09

Analyst(s): RB



Analytical Report

Client: H2O Water Company

Date Received: 06/02/2020 15:55

Date Prepared: 06/05/2020

Project:

WorkOrder: 2006098

Extraction Method: Kelada-01

Analytical Method: Kelada-01

Unit: µg/L

Cyanide, Total

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
H2O	2006098-001A	Water	<Not Provided>	WC_SKALAR 060520A1_25	199581

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Total Cyanide	ND	N	0.77	1.0	1	06/05/2020 10:13

Analyst(s): NM



Analytical Report

Client: H2O Water Company

Date Received: 06/02/2020 15:55

Date Prepared: 06/03/2020

Project:

WorkOrder: 2006098

Extraction Method: SM2120 B

Analytical Method: SM2120 B-2012

Unit: Color Units

Apparent Color (Unfiltered)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
H2O	2006098-001A	Water	<Not Provided>	WetChem	199454

<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Apparent Color	ND @ pH 7.1	N	2.0	2.0	1	06/03/2020 14:35

Analyst(s): AL



Analytical Report

Client: H2O Water Company

Date Received: 06/02/2020 15:55

Date Prepared: 06/02/2020

Project:

WorkOrder: 2006098

Extraction Method: SM4500-Cl G

Analytical Method: SM4500-Cl G

Unit: mg/L

Calculated Chloramines

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
H2O	2006098-001A	Water	<Not Provided>	SPECTROPHOTOMETER	199407

<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Chloramines	ND	N	0.040	0.040	1	06/02/2020 19:56

Analyst(s): RB



Analytical Report

Client: H2O Water Company

Date Received: 06/02/2020 15:55

Date Prepared: 06/03/2020 8:00

Project:

WorkOrder: 2006098

Extraction Method: SM9221BF

Analytical Method: SM9221BF

Unit: MPN/100ml

E. Coli, Enumeration

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
H2O	2006098-001A	Water	<Not Provided>	MICROBIOLOGY	199405

<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>95% Interval</u>	<u>Date Analyzed</u>
E. Coli	ND	N	1.1	1.1	1	---	06/05/2020 09:13

Analyst(s): AB



Analytical Report

Client: H2O Water Company

Date Received: 06/02/2020 15:55

Date Prepared: 06/02/2020

Project:

WorkOrder: 2006098

Extraction Method: SM2150B

Analytical Method: SM2150B

Unit: TON @ 60°C

Threshold Odor Test

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
H2O	2006098-001A	Water	<Not Provided>	WetChem	199406

<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TON	ND	N	1.0	1.0	1	06/02/2020 20:05

Analyst(s): HAD



Analytical Report

Client: H2O Water Company

Date Received: 06/02/2020 15:55

Date Prepared: 06/05/2020

Project:

WorkOrder: 2006098

Extraction Method: E420.4

Analytical Method: E420.4

Unit: µg/L

Phenolics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
H2O	2006098-001A	Water	<Not Provided>	WC_SKALAR 060520A1_27	199567

<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Phenolics	ND	N	1.6	2.0	1	06/05/2020 08:50

Analyst(s): RB



Analytical Report

Client: H2O Water Company

Date Received: 06/02/2020 15:55

Date Prepared: 06/04/2020

Project:

WorkOrder: 2006098

Extraction Method: SM2540 C-1997

Analytical Method: SM2540 C-1997

Unit: mg/L

Total Dissolved Solids

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
H2O	2006098-001A	Water	<Not Provided>	WetChem	199552

<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Dissolved Solids	ND	N	10.0	10.0	1	06/05/2020 08:15

Analyst(s): AL



Analytical Report

Client: H2O Water Company

Date Received: 06/02/2020 15:55

Date Prepared: 06/02/2020

Project:

WorkOrder: 2006098

Extraction Method: SM2130 B

Analytical Method: SM2130 B-2001

Unit: NTU

Turbidity

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
H2O	2006098-001A	Water	<Not Provided>	WetChem	199397

<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Turbidity	0.11	N	0.0117	0.10	1	06/02/2020 20:00

Analyst(s): HAD



Quality Control Report

Client: H2O Water Company
Date Prepared: 06/08/2020
Date Analyzed: 06/08/2020
Instrument: IC5
Matrix: Water
Project:

WorkOrder: 2006098
BatchID: 199702
Extraction Method: E300.1
Analytical Method: E300.1
Unit: µg/L
Sample ID: MB/LCS/LCSD-199702

QC Summary Report for E300.1

Analyte	MB Result	MDL	RL			
Bromate	ND	0.200	5.00	-	-	-
Chlorate	ND	0.400	2.00	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Bromate	37.6	37.5	40	94	94	85-115	0.125	10
Chlorate	38.9	38.6	40	97	97	85-115	0.815	10



Quality Control Report

Client: H2O Water Company
Date Prepared: 06/02/2020
Date Analyzed: 06/02/2020
Instrument: IC4
Matrix: Water
Project:

WorkOrder: 2006098
BatchID: 199374
Extraction Method: E300.1
Analytical Method: E300.1
Unit: mg/L
Sample ID: MB/LCS/LCSD-199374

QC Summary Report for E300.1

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Fluoride	ND	0.0440	0.100	-	-	-
Nitrate as N	ND	0.0530	0.100	-	-	-
Nitrate as NO ₃ ⁻	ND	0.230	0.440	-	-	-
Nitrite as N	ND	0.0470	0.100	-	-	-
Nitrite as NO ₂ ⁻	ND	0.150	0.330	-	-	-
Sulfate	ND	0.0860	0.100	-	-	-

Surrogate Recovery

Malonate	0.0970			0.1	97	90-115
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Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Fluoride	0.972	0.951	1	97	95	85-115	2.12	20
Nitrate as N	0.964	0.969	1	96	97	85-115	0.469	20
Nitrate as NO ₃ ⁻	4.27	4.29	4.4	97	97	85-115	0.469	20
Nitrite as N	0.950	0.956	1	95	96	85-115	0.680	20
Nitrite as NO ₂ ⁻	3.12	3.14	3.3	95	95	85-115	0.680	20
Sulfate	0.977	0.977	1	98	98	85-115	0.00451	20

Surrogate Recovery

Malonate	0.0974	0.0974	0.10	97	97	90-115	0.0647	20
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Quality Control Report

Client: H2O Water Company
Date Prepared: 06/03/2020
Date Analyzed: 06/04/2020 - 06/05/2020
Instrument: GC40
Matrix: Drinking Water
Project:

WorkOrder: 2006098
BatchID: 199455
Extraction Method: E505
Analytical Method: E505
Unit: µg/L
Sample ID: MB/LCS/LCSD-199455

QC Summary Report for E505

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
a-BHC	ND	0.00170	0.0100	-	-	-
b-BHC	ND	0.00230	0.00500	-	-	-
d-BHC	ND	0.00130	0.00500	-	-	-
g-BHC	ND	0.00180	0.0200	-	-	-
Chlordane (Technical)	ND	0.0500	0.100	-	-	-
a-Chlordane	ND	0.00180	0.0500	-	-	-
g-Chlordane	ND	0.00330	0.0500	-	-	-
p,p-DDT	ND	0.00170	0.0100	-	-	-
Dieldrin	ND	0.00270	0.0100	-	-	-
Endosulfan I	ND	0.00160	0.0200	-	-	-
Endosulfan II	ND	0.00110	0.0200	-	-	-
Endosulfan sulfate	ND	0.00170	0.0500	-	-	-
Endrin	ND	0.00100	0.0100	-	-	-
Endrin Aldehyde	ND	0.00290	0.0500	-	-	-
Endrin ketone	ND	0.00120	0.0500	-	-	-
Heptachlor Epoxide	ND	0.00150	0.0100	-	-	-
Hexachlorobenzene	ND	0.00160	0.500	-	-	-
Hexachlorocyclopentadiene	ND	0.00180	1.00	-	-	-
Heptachlor	ND	0.00190	0.0100	-	-	-
Methoxychlor	ND	0.00290	0.100	-	-	-
Toxaphene	ND	0.230	0.500	-	-	-
Aroclor1016	ND	0.120	0.500	-	-	-
Aroclor1221	ND	0.180	0.500	-	-	-
Aroclor1232	ND	0.130	0.500	-	-	-
Aroclor1242	ND	0.0800	0.500	-	-	-
Aroclor1248	ND	0.280	0.500	-	-	-
Aroclor1254	ND	0.160	0.500	-	-	-
Aroclor1260	ND	0.110	0.500	-	-	-
Surrogate Recovery						
Decachlorobiphenyl	1.06			1.25	85	70-130



Quality Control Report

Client: H2O Water Company
Date Prepared: 06/03/2020
Date Analyzed: 06/04/2020 - 06/05/2020
Instrument: GC40
Matrix: Drinking Water
Project:

WorkOrder: 2006098
BatchID: 199455
Extraction Method: E505
Analytical Method: E505
Unit: µg/L
Sample ID: MB/LCS/LCSD-199455

QC Summary Report for E505

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
a-BHC	1.54	1.56	1.25	123	125	70-130	1.17	20
b-BHC	1.37	1.41	1.25	110	113	70-130	2.57	20
d-BHC	1.53	1.58	1.25	122	126	70-130	3.18	20
g-BHC	1.50	1.53	1.25	120	122	70-130	2.05	20
a-Chlordane	1.34	1.37	1.25	107	109	70-130	2.14	20
g-Chlordane	1.48	1.48	1.25	119	119	70-130	0.116	20
p,p-DDT	1.50	1.48	1.25	120	119	70-130	1.50	20
Dieldrin	1.57	1.61	1.25	126	129	70-130	2.30	20
Endosulfan I	1.41	1.43	1.25	113	115	70-130	1.75	20
Endosulfan II	1.48	1.49	1.25	118	119	70-130	0.584	20
Endosulfan sulfate	1.46	1.45	1.25	117	116	70-130	1.26	20
Endrin	1.45	1.50	1.25	116	120	70-130	3.33	20
Endrin Aldehyde	1.31	1.35	1.25	105	108	70-130	2.90	20
Endrin ketone	1.30	1.35	1.25	104	108	70-130	3.54	20
Heptachlor Epoxide	1.36	1.39	1.25	109	111	70-130	1.86	20
Hexachlorobenzene	1.30	1.31	1.25	104	105	70-130	0.606	20
Hexachlorocyclopentadiene	0.944	1.00	1.25	75	80	70-130	6.14	20
Heptachlor	1.48	1.50	1.25	118	120	70-130	1.51	20
Methoxychlor	1.44	1.51	1.25	115	120	70-130	4.29	20
Aroclor1016	3.75	3.76	3.75	100	100	70-130	0.325	20
Aroclor1260	3.78	3.87	3.75	101	103	70-130	2.53	20
Surrogate Recovery								
Decachlorobiphenyl	1.29	1.28	1.25	103	102	70-130	0.976	20



Quality Control Report

Client: H2O Water Company
Date Prepared: 06/04/2020
Date Analyzed: 06/04/2020
Instrument: GC15A
Matrix: Drinking Water
Project:

WorkOrder: 2006098
BatchID: 199486
Extraction Method: SW8151A
Analytical Method: E515.3
Unit: µg/L
Sample ID: MB/LCS/LCSD-199486

QC Summary Report for E515.3

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Bentazon	ND	0.170	1.00	-	-	-
2,4-D (Dichlorophenoxyacetic acid)	ND	0.350	1.00	-	-	-
Dalapon	ND	0.470	1.00	-	-	-
DCPA (mono & diacid)	ND	0.120	0.200	-	-	-
Dicamba	ND	0.270	1.00	-	-	-
Dinoseb (DNBP)	ND	0.0720	1.00	-	-	-
Pentachlorophenol (PCP)	ND	0.0650	0.200	-	-	-
Picloram	ND	0.270	1.00	-	-	-
2,4,5-TP (Silvex)	ND	0.0990	1.00	-	-	-

Surrogate Recovery

DCAA	9.29			10	93	70-130
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Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Bentazon	10.6	10.7	10	106	107	70-130	0.997	20
2,4-D (Dichlorophenoxyacetic acid)	10.4	10.7	10	104	107	70-130	2.58	20
Dalapon	9.86	9.77	10	99	98	70-130	0.952	20
DCPA (mono & diacid)	10.5	11.2	10	105	112	70-130	6.12	20
Dicamba	10.4	10.4	10	104	104	70-130	0.447	20
Dinoseb (DNBP)	11.1	11.6	10	111	116	70-130	4.64	20
Pentachlorophenol (PCP)	11.3	11.3	10	113	113	70-130	0.221	20
Picloram	11.7	12.6	10	117	126	70-130	7.66	20
2,4,5-TP (Silvex)	10.7	11.1	10	107	111	70-130	3.98	20

Surrogate Recovery

DCAA	10.1	10.2	10	101	102	70-130	0.441	20
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Quality Control Report

Client: H2O Water Company
Date Prepared: 06/09/2020
Date Analyzed: 06/09/2020
Instrument: GC38
Matrix: Drinking Water
Project:

WorkOrder: 2006098
BatchID: 199794
Extraction Method: E524.2
Analytical Method: E524.2
Unit: µg/L
Sample ID: MB/LCS/LCSD-199794

QC Summary Report for E524.2

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	30.0	40.0	-	-	-
tert-Amyl Methyl Ether (TAME)	ND	0.100	0.500	-	-	-
Benzene	ND	0.0390	0.500	-	-	-
Bromobenzene	ND	0.110	0.500	-	-	-
Bromochloromethane	ND	0.0720	0.500	-	-	-
Bromodichloromethane	ND	0.240	0.500	-	-	-
Bromoform	ND	0.0970	0.500	-	-	-
Bromomethane	ND	0.170	0.500	-	-	-
2-Butanone (MEK)	ND	0.980	5.00	-	-	-
t-Butyl alcohol (TBA)	ND	1.50	2.00	-	-	-
n-Butyl benzene	ND	0.0700	0.500	-	-	-
sec-Butyl benzene	ND	0.270	0.500	-	-	-
tert-Butyl benzene	ND	0.0950	0.500	-	-	-
Carbon disulfide	ND	0.340	0.500	-	-	-
Carbon tetrachloride	ND	0.0920	0.500	-	-	-
Chlorobenzene	ND	0.0400	0.500	-	-	-
Chloroethane	ND	0.150	0.500	-	-	-
Chloroform	ND	0.0390	0.500	-	-	-
Chloromethane	ND	0.200	0.500	-	-	-
2-Chlorotoluene	ND	0.0740	0.500	-	-	-
4-Chlorotoluene	ND	0.100	0.500	-	-	-
Dibromochloromethane	ND	0.140	0.500	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.0690	0.200	-	-	-
1,2-Dibromoethane (EDB)	ND	0.120	0.500	-	-	-
Dibromomethane	ND	0.0580	0.500	-	-	-
1,2-Dichlorobenzene	ND	0.0730	0.500	-	-	-
1,3-Dichlorobenzene	ND	0.0930	0.500	-	-	-
1,4-Dichlorobenzene	ND	0.0640	0.500	-	-	-
Dichlorodifluoromethane	ND	0.0930	0.500	-	-	-
1,1-Dichloroethane	ND	0.0530	0.500	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0530	0.500	-	-	-
1,1-Dichloroethene	ND	0.0610	0.500	-	-	-
cis-1,2-Dichloroethene	ND	0.0580	0.500	-	-	-
trans-1,2-Dichloroethene	ND	0.120	0.500	-	-	-
1,2-Dichloropropane	ND	0.0410	0.500	-	-	-
1,3-Dichloropropane	ND	0.0860	0.500	-	-	-
2,2-Dichloropropane	ND	0.150	0.500	-	-	-
1,1-Dichloropropene	ND	0.250	0.500	-	-	-

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Quality Control Report

Client: H2O Water Company
Date Prepared: 06/09/2020
Date Analyzed: 06/09/2020
Instrument: GC38
Matrix: Drinking Water
Project:

WorkOrder: 2006098
BatchID: 199794
Extraction Method: E524.2
Analytical Method: E524.2
Unit: µg/L
Sample ID: MB/LCS/LCSD-199794

QC Summary Report for E524.2

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
cis-1,3-Dichloropropene	ND	0.160	0.500	-	-	-
trans-1,3-Dichloropropene	ND	0.170	0.500	-	-	-
Diisopropyl ether (DIPE)	ND	0.0650	0.500	-	-	-
Ethylbenzene	ND	0.210	0.500	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0820	0.500	-	-	-
Freon 113	ND	0.0420	0.500	-	-	-
Hexachlorobutadiene	ND	0.0480	0.500	-	-	-
2-Hexanone	ND	0.130	1.00	-	-	-
Isopropylbenzene	ND	0.110	0.500	-	-	-
4-Isopropyl toluene	ND	0.340	0.500	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0730	0.500	-	-	-
Methylene chloride	ND	0.350	0.500	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	0.200	0.500	-	-	-
Naphthalene	ND	0.460	0.500	-	-	-
n-Propyl benzene	ND	0.0630	0.500	-	-	-
Styrene	ND	0.300	0.500	-	-	-
1,1,1,2-Tetrachloroethane	ND	0.130	0.500	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.120	0.500	-	-	-
Tetrachloroethene	ND	0.0530	0.500	-	-	-
Toluene	ND	0.0800	0.500	-	-	-
1,2,3-Trichlorobenzene	ND	0.230	0.500	-	-	-
1,2,4-Trichlorobenzene	ND	0.270	0.500	-	-	-
1,1,1-Trichloroethane	ND	0.100	0.500	-	-	-
1,1,2-Trichloroethane	ND	0.0640	0.500	-	-	-
Trichloroethene	ND	0.0420	0.500	-	-	-
Trichlorofluoromethane	ND	0.0880	0.500	-	-	-
1,2,4-Trimethylbenzene	ND	0.0900	0.500	-	-	-
1,3,5-Trimethylbenzene	ND	0.100	0.500	-	-	-
Vinyl chloride	ND	0.0640	0.500	-	-	-
m,p-Xylene	ND	0.340	0.500	-	-	-
o-Xylene	ND	0.0660	0.500	-	-	-

Surrogate Recovery

Dibromofluoromethane	25.0	25	100	70-130
Toluene-d8	23.4	25	94	70-130
4-BFB	2.22	2.5	89	70-130

(Cont.)

CA ELAP 1644



Quality Control Report

Client: H2O Water Company
Date Prepared: 06/09/2020
Date Analyzed: 06/09/2020
Instrument: GC38
Matrix: Drinking Water
Project:

WorkOrder: 2006098
BatchID: 199794
Extraction Method: E524.2
Analytical Method: E524.2
Unit: µg/L
Sample ID: MB/LCS/LCSD-199794

QC Summary Report for E524.2

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	57.0	57.7	40	143,F2	144,F2	70-130	1.07	20
tert-Amyl Methyl Ether (TAME)	4.03	3.98	4	101	99	70-130	1.27	20
Benzene	3.85	3.84	4	96	96	70-130	0.247	20
Bromobenzene	3.88	3.93	4	97	98	70-130	1.33	20
Bromochloromethane	4.29	4.28	4	107	107	70-130	0.140	20
Bromodichloromethane	4.31	4.24	4	108	106	70-130	1.62	20
Bromoform	4.56	4.43	4	114	111	70-130	2.76	20
Bromomethane	4.13	3.96	4	103	99	70-130	4.29	20
2-Butanone (MEK)	20.9	20.8	16	130	130	70-130	0.131	20
t-Butyl alcohol (TBA)	18.3	19.1	16	114	120	70-130	4.51	20
n-Butyl benzene	3.71	3.82	4	93	95	70-130	2.92	20
sec-Butyl benzene	3.50	3.67	4	87	92	70-130	4.77	20
tert-Butyl benzene	3.40	3.63	4	85	91	70-130	6.68	20
Carbon disulfide	3.69	3.65	4	92	91	70-130	1.16	20
Carbon tetrachloride	4.33	4.43	4	108	111	70-130	2.12	20
Chlorobenzene	3.79	3.80	4	95	95	70-130	0.309	20
Chloroethane	4.00	3.82	4	100	95	70-130	4.79	20
Chloroform	4.56	4.52	4	114	113	70-130	0.927	20
Chloromethane	3.89	3.67	4	97	92	70-130	5.65	20
2-Chlorotoluene	3.71	3.73	4	93	93	70-130	0.736	20
4-Chlorotoluene	3.63	3.67	4	91	92	70-130	1.11	20
Dibromochloromethane	4.04	3.99	4	101	100	70-130	1.12	20
1,2-Dibromo-3-chloropropane	2.16	2.13	2	108	107	70-130	0.950	20
1,2-Dibromoethane (EDB)	2.15	2.13	2	107	107	70-130	0.893	20
Dibromomethane	4.22	4.08	4	105	102	70-130	3.35	20
1,2-Dichlorobenzene	3.83	3.83	4	96	96	70-130	0.125	20
1,3-Dichlorobenzene	3.83	3.77	4	96	94	70-130	1.41	20
1,4-Dichlorobenzene	3.59	3.60	4	90	90	70-130	0.216	20
Dichlorodifluoromethane	3.60	3.64	4	90	91	70-130	1.24	20
1,1-Dichloroethane	4.08	4.05	4	102	101	70-130	0.808	20
1,2-Dichloroethane (1,2-DCA)	5.01	4.90	4	125	123	70-130	2.12	20
1,1-Dichloroethene	4.48	4.49	4	112	112	70-130	0.198	20
cis-1,2-Dichloroethene	3.84	3.83	4	96	96	70-130	0.0751	20
trans-1,2-Dichloroethene	3.79	3.76	4	95	94	70-130	0.881	20
1,2-Dichloropropane	3.90	3.85	4	97	96	70-130	1.26	20
1,3-Dichloropropane	4.00	4.04	4	100	101	70-130	1.09	20
2,2-Dichloropropane	4.14	4.16	4	104	104	70-130	0.385	20
1,1-Dichloropropene	3.85	3.91	4	96	98	70-130	1.48	20

(Cont.)

CA ELAP 1644



Quality Control Report

Client: H2O Water Company
Date Prepared: 06/09/2020
Date Analyzed: 06/09/2020
Instrument: GC38
Matrix: Drinking Water
Project:

WorkOrder: 2006098
BatchID: 199794
Extraction Method: E524.2
Analytical Method: E524.2
Unit: µg/L
Sample ID: MB/LCS/LCSD-199794

QC Summary Report for E524.2

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	4.34	4.29	4	108	107	70-130	1.13	20
trans-1,3-Dichloropropene	4.72	4.67	4	118	117	70-130	1.19	20
Diisopropyl ether (DIPE)	3.84	3.79	4	96	95	70-130	1.18	20
Ethylbenzene	3.79	3.86	4	95	97	70-130	1.84	20
Ethyl tert-butyl ether (ETBE)	3.87	3.82	4	97	96	70-130	1.15	20
Freon 113	3.67	3.76	4	92	94	70-130	2.66	20
Hexachlorobutadiene	3.97	4.13	4	99	103	70-130	3.90	20
2-Hexanone	4.34	4.45	4	109	111	70-130	2.46	20
Isopropylbenzene	3.51	3.68	4	88	92	70-130	4.85	20
4-Isopropyl toluene	3.56	3.68	4	89	92	70-130	3.31	20
Methyl-t-butyl ether (MTBE)	4.42	4.33	4	110	108	70-130	1.91	20
Methylene chloride	3.78	3.74	4	95	94	70-130	0.992	20
4-Methyl-2-pentanone (MIBK)	4.66	4.59	4	116	115	70-130	1.45	20
Naphthalene	4.43	4.34	4	111	108	70-130	2.13	20
n-Propyl benzene	3.63	3.66	4	91	91	70-130	0.801	20
Styrene	3.76	3.74	4	94	93	70-130	0.752	20
1,1,1,2-Tetrachloroethane	3.91	3.94	4	98	98	70-130	0.835	20
1,1,2,2-Tetrachloroethane	4.55	4.58	4	114	115	70-130	0.685	20
Tetrachloroethene	3.78	3.87	4	94	97	70-130	2.40	20
Toluene	3.63	3.69	4	91	92	70-130	1.69	20
1,2,3-Trichlorobenzene	4.12	4.05	4	103	101	70-130	1.73	20
1,2,4-Trichlorobenzene	3.98	3.85	4	100	96	70-130	3.42	20
1,1,1-Trichloroethane	3.98	4.03	4	100	101	70-130	1.23	20
1,1,2-Trichloroethane	4.12	4.05	4	103	101	70-130	1.83	20
Trichloroethene	3.43	3.45	4	86	86	70-130	0.465	20
Trichlorofluoromethane	3.92	4.02	4	98	101	70-130	2.48	20
1,2,4-Trimethylbenzene	3.52	3.56	4	88	89	70-130	1.09	20
1,3,5-Trimethylbenzene	3.61	3.68	4	90	92	70-130	1.89	20
Vinyl chloride	1.82	1.76	2	91	88	70-130	3.15	20
m,p-Xylene	7.46	7.57	8	93	95	70-130	1.42	20
o-Xylene	3.81	3.87	4	95	97	70-130	1.60	20
Surrogate Recovery								
Dibromofluoromethane	25.5	26.7	25	102	107	70-130	4.86	20
Toluene-d8	23.4	23.7	25	94	95	70-130	1.12	20
4-BFB	2.21	2.31	2.5	88	92	70-130	4.30	20



Quality Control Report

Client: H2O Water Company
Date Prepared: 06/09/2020
Date Analyzed: 06/09/2020
Instrument: GC45
Matrix: Drinking Water
Project:

WorkOrder: 2006098
BatchID: 199838
Extraction Method: E524.3
Analytical Method: E524.3
Unit: µg/L
Sample ID: MB/LCS/LCSD-199838

QC Summary Report for E524.3

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
1,2-Dibromo-3-chloropropane	ND	0.00770	0.0100	-	-	-
1,2-Dibromoethane (EDB)	ND	0.00760	0.0100	-	-	-

Surrogate Recovery

tert-Butyl methyl ether-d3	0.974			1	97	70-130
4-BFB	1.02			1	102	70-130
1,2-dichlorobenzene-d4	1.04			1	103	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
1,2-Dibromo-3-chloropropane	0.0896	0.0963	0.10	90	96	70-130	7.21	20
1,2-Dibromoethane (EDB)	0.0903	0.0945	0.10	90	95	70-130	4.58	20
Surrogate Recovery								
tert-Butyl methyl ether-d3	1.08	1.08	1	107	108	70-130	0.308	20
4-BFB	1.02	1.02	1	102	102	70-130	0.121	20
1,2-dichlorobenzene-d4	1.02	1.03	1	102	103	70-130	1.38	20



Quality Control Report

Client: H2O Water Company
Date Prepared: 06/04/2020
Date Analyzed: 06/08/2020
Instrument: GC25
Matrix: Drinking Water
Project:

WorkOrder: 2006098
BatchID: 199519
Extraction Method: E525.2
Analytical Method: E525.2
Unit: µg/L
Sample ID: MB/LCS/LCSD-199519

QC Summary Report for E525.2

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Alachlor	ND	0.100	0.250	-	-	-
Atrazine	ND	0.140	0.250	-	-	-
Diazinon	ND	0.130	0.250	-	-	-
Molinate	ND	0.0950	0.250	-	-	-
Simazine	ND	0.210	0.250	-	-	-
Thiobencarb	ND	0.0900	0.250	-	-	-

Surrogate Recovery

1-Bromo-2-Nitrobenzene	0.468			0.5	94	43-130
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Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Alachlor	1.24	1.36	1.5	83	90	47-135	8.90	20
Atrazine	1.20	1.26	1.5	80	84	48-136	5.06	20
Diazinon	1.23	1.28	1.5	82	85	45-131	4.13	20
Molinate	1.12	1.24	1.5	75	83	48-131	9.80	20
Simazine	1.23	1.29	1.5	82	86	41-134	4.41	20
Thiobencarb	1.21	1.27	1.5	81	85	43-122	4.81	20

Surrogate Recovery

1-Bromo-2-Nitrobenzene	0.442	0.447	0.50	88	89	43-130	1.05	20
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Quality Control Report

Client: H2O Water Company
Date Prepared: 06/08/2020
Date Analyzed: 06/09/2020
Instrument: GC35
Matrix: Drinking Water
Project:

WorkOrder: 2006098
BatchID: 199662
Extraction Method: E525.2
Analytical Method: E525.2
Unit: µg/L
Sample ID: MB/LCS/LCSD-199662

QC Summary Report for E525.2

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Benzo (a) pyrene	ND	0.0400	0.0400	-	-	-
Bis (2-ethylhexyl) Adipate	ND	0.200	0.200	-	-	-
Bis (2-ethylhexyl) Phthalate	ND	0.200	0.200	-	-	-
Surrogate Recovery						
Triphenyl phosphate	0.376			0.5	75	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Benzo (a) pyrene	0.411	0.455	0.50	82	91	70-130	10.2	20
Bis (2-ethylhexyl) Adipate	5.05	5.26	5	101	105	70-130	4.05	20
Bis (2-ethylhexyl) Phthalate	5.58	6.26	5	112	125	70-130	11.4	20
Surrogate Recovery								
Triphenyl phosphate	0.446	0.475	0.50	89	95	70-130	6.15	20



Quality Control Report

Client: H2O Water Company
Date Prepared: 06/03/2020
Date Analyzed: 06/03/2020
Instrument: GC8
Matrix: Water
Project:

WorkOrder: 2006098
BatchID: 199410
Extraction Method: E548.1
Analytical Method: E548.1
Unit: µg/L
Sample ID: MB/LCS/LCSD-199410

QC Summary Report for E548.1

Analyte	MB Result	MDL	RL			
Endothall	ND	4.40	20.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Endothall	105	103	100	105	103	78-127	1.79	20



Quality Control Report

Client: H2O Water Company
Date Prepared: 06/05/2020
Date Analyzed: 06/05/2020
Instrument: HPLC2
Matrix: Drinking Water
Project:

WorkOrder: 2006098
BatchID: 199600
Extraction Method: E549.2
Analytical Method: E549.2
Unit: µg/L
Sample ID: MB/LCS/LCSD-199600
2006098-001AMS/MSD

QC Summary Report for E549.2

Analyte	MB Result	MDL	RL			
Diquat	ND	1.60	4.00	-	-	-
Paraquat	ND	3.50	4.00	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Diquat	100	99.8	100	100	100	70-130	0	30
Paraquat	93.2	92.8	100	93	93	70-130	0	30

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Diquat	1	101	102	100	ND	101	102	70-130	1.37	30
Paraquat	1	94.2	97.0	100	ND	94	97	70-130	2.91	30



Quality Control Report

Client: H2O Water Company
Date Prepared: 06/04/2020
Date Analyzed: 06/04/2020
Instrument: GC50
Matrix: Drinking Water
Project:

WorkOrder: 2006098
BatchID: 199485
Extraction Method: E552.2
Analytical Method: E552.2
Unit: µg/L
Sample ID: MB/LCS/LCSD-199485

QC Summary Report for E552.2

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Dibromoacetic acid (DBAA)	ND	0.0270	0.130	-	-	-
Dichloroacetic acid (DCAA)	ND	0.0510	0.130	-	-	-
Monobromoacetic acid (MBAA)	ND	0.0580	0.130	-	-	-
Monochloroacetic acid (MCAA)	ND	0.0680	0.270	-	-	-
Trichloroacetic acid (TCAA)	ND	0.0570	0.130	-	-	-

Surrogate Recovery

2,3-Dibromopropionic Acid	13.0			13.3	98	70-130
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Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Dibromoacetic acid (DBAA)	3.73	3.88	4	93	97	70-130	3.86	30
Dichloroacetic acid (DCAA)	4.30	4.36	4	108	109	70-130	1.41	30
Monobromoacetic acid (MBAA)	3.78	3.83	4	95	96	70-130	1.16	30
Monochloroacetic acid (MCAA)	7.98	8.06	8	100	101	70-130	0.996	30
Trichloroacetic acid (TCAA)	4.01	4.01	4	100	100	70-130	0.0150	30

Surrogate Recovery

2,3-Dibromopropionic Acid	13.6	13.8	13.3	103	103	70-130	0.761	30
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Quality Control Report

Client: H2O Water Company
Date Prepared: 06/04/2020
Date Analyzed: 06/10/2020
Instrument: ICP-MS2
Matrix: Drinking Water
Project:

WorkOrder: 2006098
BatchID: 199434
Extraction Method: E200.8
Analytical Method: E200.8
Unit: µg/L
Sample ID: MB/LCS/LCSD-199434
2006098-001AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	MDL	RL			
Aluminum	ND	0.880	50.0	-	-	-
Antimony	ND	0.0600	6.00	-	-	-
Arsenic	0.664,J	0.530	2.00	-	-	-
Barium	ND	0.120	100	-	-	-
Beryllium	ND	0.0600	1.00	-	-	-
Cadmium	ND	0.0300	1.00	-	-	-
Chromium	ND	0.0900	10.0	-	-	-
Copper	ND	0.0900	10.0	-	-	-
Lead	0.0188,J	0.0100	0.500	-	-	-
Manganese	ND	1.60	20.0	-	-	-
Mercury	ND	0.0100	1.00	-	-	-
Nickel	ND	0.150	10.0	-	-	-
Selenium	2.35,J	0.420	5.00	-	-	-
Silver	ND	0.0700	10.0	-	-	-
Thallium	ND	0.0100	1.00	-	-	-
Zinc	0.141,J	0.130	50.0	-	-	-



Quality Control Report

Client: H2O Water Company
Date Prepared: 06/04/2020
Date Analyzed: 06/10/2020
Instrument: ICP-MS2
Matrix: Drinking Water
Project:

WorkOrder: 2006098
BatchID: 199434
Extraction Method: E200.8
Analytical Method: E200.8
Unit: µg/L
Sample ID: MB/LCS/LCSD-199434
2006098-001AMS/MSD

QC Summary Report for Metals

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Aluminum	548	556	500	110	111	70-130	1.49	20
Antimony	46.6	48.9	50	93	98	85-115	4.86	20
Arsenic	55.4	54.0	50	111	108	85-115	2.49	20
Barium	541	531	500	108	106	85-115	1.72	20
Beryllium	55.6	55.9	50	111	112	85-115	0.449	20
Cadmium	53.4	52.2	50	107	104	85-115	2.24	20
Chromium	54.7	54.1	50	109	108	85-115	1.07	20
Copper	55.6	55.6	50	111	111	85-115	0.0899	20
Lead	54.1	53.2	50	108	106	85-115	1.55	20
Manganese	4870	5150	5000	97	103	70-130	5.51	20
Mercury	1.12	1.14	1.25	89	91	85-115	2.12	20
Nickel	55.2	54.2	50	110	108	85-115	1.79	20
Selenium	57.4	56.6	50	115	113	85-115	1.30	20
Silver	52.9	52.7	50	106	105	85-115	0.303	20
Thallium	56.0	55.7	50	112	111	85-115	0.519	20
Zinc	573	569	500	115	114	85-115	0.666	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Aluminum	1	550	550	500	ND	110	110	70-130	0.0364	20
Antimony	1	47.3	48.4	50	ND	95	97	85-115	2.32	20
Arsenic	1	53.1	51.5	50	ND	106	103	85-115	3.08	20
Barium	1	531	532	500	ND	106	106	85-115	0.207	20
Beryllium	1	56.2	55.5	50	ND	112	111	85-115	1.34	20
Cadmium	1	52.1	52.4	50	ND	104	105	85-115	0.632	20
Chromium	1	54.6	54.1	50	ND	109	108	85-115	0.883	20
Copper	1	56.4	56.0	50	ND	113	112	85-115	0.694	20
Lead	1	53.4	53.0	50	ND	107	106	85-115	0.902	20
Manganese	1	4950	5100	5000	ND	99	102	70-130	2.99	20
Mercury	1	1.13	1.18	1.25	ND	87	92	85-115	4.85	20
Nickel	1	55.4	54.6	50	ND	111	109	85-115	1.47	20
Selenium	1	42.4	38.8	50	ND	85	78,F1	85-115	8.82	20
Silver	1	53.1	52.7	50	ND	106	105	85-115	0.832	20
Thallium	1	55.1	55.2	50	ND	110	110	85-115	0.290	20

(Cont.)

CA ELAP 1644



Quality Control Report

Client: H2O Water Company
Date Prepared: 06/04/2020
Date Analyzed: 06/10/2020
Instrument: ICP-MS2
Matrix: Drinking Water
Project:

WorkOrder: 2006098
BatchID: 199434
Extraction Method: E200.8
Analytical Method: E200.8
Unit: µg/L
Sample ID: MB/LCS/LCSD-199434
2006098-001AMS/MSD

QC Summary Report for Metals

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Zinc	1	568	568	500	ND	114	114	85-115	0.0352	20



Quality Control Report

Client: H2O Water Company
Date Prepared: 06/04/2020
Date Analyzed: 06/04/2020
Instrument: SPECTROPHOTOMETER
Matrix: Water
Project:

WorkOrder: 2006098
BatchID: 199493
Extraction Method: SM4500-Cl G
Analytical Method: SM4500-Cl G
Unit: mg/L
Sample ID: MB/LCS/LCSD-199493
2006098-001A

QC Summary Report for SM4500-Cl G

Analyte	MB Result	MDL	RL			
Total Chlorine	ND	0.0400	0.0400	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Total Chlorine	0.960	0.960	1	96	96	80-120	0	20

Analyte	SAMP Result	DUP Result		RPD	RPD Limit
Total Chlorine	ND	ND		N/A	10



Quality Control Report

Client: H2O Water Company
Date Prepared: 06/05/2020
Date Analyzed: 06/05/2020
Instrument: WC_SKALAR
Matrix: Water
Project:

WorkOrder: 2006098
BatchID: 199581
Extraction Method: Kelada-01
Analytical Method: Kelada-01
Unit: µg/L
Sample ID: MB/LCS/LCSD-199581

QC Summary Report for Kelada-01

Analyte	MB Result	MDL	RL			
Total Cyanide	ND	0.770	1.00	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Total Cyanide	44.1	40.9	40	110	102	80-120	7.49	20



Quality Control Report

Client: H2O Water Company
Date Prepared: 06/03/2020
Date Analyzed: 06/03/2020
Instrument: WetChem
Matrix: Water
Project:

WorkOrder: 2006098
BatchID: 199454
Extraction Method: SM2120 B
Analytical Method: SM2120 B-2012
Unit: Color Units
Sample ID: MB-199454
2006098-001A

QC Report for Apparent Color (Unfiltered)

Analyte	MB Result	MDL	RL			
Apparent Color	ND @ pH	2.00	2.00	-	-	-

Analyte	SAMP Result	DUP Result	RPD	RPD Limit
Apparent Color	ND @ pH 7.7	ND @ pH 7.1	N/A	10



Quality Control Report

Client: H2O Water Company
Date Prepared: 06/02/2020
Date Analyzed: 06/02/2020
Instrument: SPECTROPHOTOMETER
Matrix: Water
Project:

WorkOrder: 2006098
BatchID: 199407
Extraction Method: SM4500-Cl G
Analytical Method: SM4500-Cl G
Unit: mg/L
Sample ID: MB/LCS/LCSD-199407

QC Summary Report for SM4500-Cl G

Analyte	MB Result	MDL	RL			
Free Chlorine	ND	0.0400	0.0400	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Free Chlorine	0.940	0.940	1	94	94	80-120	0	20



Quality Control Report

Client: H2O Water Company
Date Prepared: 06/03/2020
Date Analyzed: 06/05/2020
Instrument: MICROBIOLOGY
Matrix: Drinking Water
Project:

WorkOrder: 2006098
BatchID: 199405
Extraction Method: SM9221BF
Analytical Method: SM9221BF
Unit: MPN/100ml
Sample ID: MB-199405
2006098-001A

QC Summary Report for SM9221BF

Analyte	RL	Blank	Control	Sample Result	Dup / Serial Dilution Result	RPD	RPD Limit
E. Coli	1.10	ND	-	ND	ND	-	15
Enterobacter aerogenes (EC NEG Control)	1.10	-	ND	-	-	-	-
E. coli (EC POS Control)	1.10	-	140	-	-	-	-



Quality Control Report

Client: H2O Water Company
Date Prepared: 06/02/2020
Date Analyzed: 06/02/2020
Instrument: WetChem
Matrix: Water
Project:

WorkOrder: 2006098
BatchID: 199406
Extraction Method: SM2150B
Analytical Method: SM2150B
Unit: TON @ 60°C
Sample ID: MB-199406
2006098-001A

QC Summary Report for SM2150B

Analyte	MB Result	MDL	RL			
TON	ND	1.00	1.00	-	-	-

Analyte	SAMP Result	DUP Result	RPD	RPD Limit
TON	ND	ND	N/A	10



Quality Control Report

Client: H2O Water Company
Date Prepared: 06/05/2020
Date Analyzed: 06/05/2020
Instrument: WC_SKALAR
Matrix: Water
Project:

WorkOrder: 2006098
BatchID: 199567
Extraction Method: E420.4
Analytical Method: E420.4
Unit: µg/L
Sample ID: MB/LCS/LCSD-199567

QC Summary Report for E420.4

Analyte	MB Result	MDL	RL			
Phenolics	ND	1.60	2.00	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Phenolics	38.5	39.7	40	96	99	80-120	3.05	20



Quality Control Report

Client: H2O Water Company
Date Prepared: 06/04/2020
Date Analyzed: 06/05/2020
Instrument: WetChem
Matrix: Water
Project:

WorkOrder: 2006098
BatchID: 199552
Extraction Method: SM2540 C-1997
Analytical Method: SM2540 C-1997
Unit: mg/L
Sample ID: MB/LCS/LCSD-199552

QC Summary Report for Total Dissolved Solids

Analyte	MB Result	MDL	RL			
Total Dissolved Solids	ND	10.0	10.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Total Dissolved Solids	1020	1010	1000	102	101	80-120	0.197	10



Quality Control Report

Client: H2O Water Company
Date Prepared: 06/02/2020
Date Analyzed: 06/02/2020
Instrument: WetChem
Matrix: Water
Project:

WorkOrder: 2006098
BatchID: 199397
Extraction Method: SM2130 B
Analytical Method: SM2130 B-2001
Unit: NTU
Sample ID: CCV-199397

QC Summary Report for SM2130B (Turbidity)

Analyte	CCV REC (%)	CCV Limits
Turbidity	94	90-110



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

☐ WaterTrax ☐ WriteOn ☐ EDF

Report to:

Frank Cheng
H2O Water Company
1256 W Winton Ave.
Hayward, CA 94545
510-303-5029 FAX:

Email: fcheng@h2goapp.com
cc/3rd Party:
PO:
Project:

CHAIN-OF-CUSTODY RECORD

WorkOrder: 2006098

ClientCode: H2OWC

QuoteID: 202581

☐ Excel ☐ EQulS ☐ Email ☐ HardCopy ☐ ThirdParty ☒ J-flag
☐ Detection Summary ☐ Dry-Weight

Bill to:

Frank Cheng
H2O Water Company
1256 W Winton Ave.
Hayward, CA 94545
fcheng@h2goapp.com

**Requested TATs: 15 days;
5 days;**

***Date Received:* 06/02/2020**

***Date Logged:* 06/02/2020**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2006098-001	H2O	Water	<Not Provided>	<input type="checkbox"/>	A	A	A	A	A	A	A	A	A	A	A	A

Test Legend:

1	1613_TCDD_W	2	300_1_W	3	300_1SPE_W(ug/L)	4	505_W
5	515_3_W	6	524_2BASIC_W	7	524_3_504_W	8	525_2_507_W
9	525_2_W	10	548_1_W	11	549_2_W	12	552_2_W

Project Manager: Rosa Venegas

Prepared by: Lilly Ortiz

The following SampID: 001A contains testgroup CHLORAMINES_4500G_W.; The following SampID: 001A contains testgroup General Physical_DW.

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

☐ WaterTrax ☐ WriteOn ☐ EDF

Report to:

Frank Cheng
H2O Water Company
1256 W Winton Ave.
Hayward, CA 94545
510-303-5029 FAX:

Email: fcheng@h2goapp.com
cc/3rd Party:
PO:
Project:

CHAIN-OF-CUSTODY RECORD**WorkOrder: 2006098****ClientCode: H2OWC****QuoteID: 202581**

☐ Excel ☐ EQulS ☐ Email ☐ HardCopy ☐ ThirdParty ☒ J-flag
☐ Detection Summary ☐ Dry-Weight

Bill to:

Frank Cheng
H2O Water Company
1256 W Winton Ave.
Hayward, CA 94545
fcheng@h2goapp.com

**Requested TATs: 15 days;
5 days;**

***Date Received:* 06/02/2020**

***Date Logged:* 06/02/2020**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					13	14	15	16	17	18	19	20	21	22	23	24
2006098-001	H2O	Water	<Not Provided>	<input type="checkbox"/>	A	A	A	A	A	A	A	A	A	A	A	A

Test Legend:

13	CAMMETMS_DIGEST_DW
17	CHLORINE_SM4500CLG_W
21	GROSS ALPHA & BETA_W

14	Chloramine_SM4500CLG_W
18	CN_W
22	ODOR_W

15	Chlorine Dioxide_W
19	COLOR_App_DW
23	PHENOLICS_W

16	CHLORINE_FreeSM4500CLG_W
20	EC_9221BF_MTF_DW
24	PRDisposal Fee

Project Manager: Rosa Venegas**Prepared by: Lilly Ortiz**

The following SampID: 001A contains testgroup CHLORAMINES_4500G_W.; The following SampID: 001A contains testgroup General Physical_DW.

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 2006098

ClientCode: H2OWC

QuoteID: 202581

☐ Excel ☐ EQulS ☐ Email ☐ HardCopy ☐ ThirdParty ☒ J-flag
☐ Detection Summary ☐ Dry-Weight

Bill to:

Frank Cheng
H2O Water Company
1256 W Winton Ave.
Hayward, CA 94545
fcheng@h2goapp.com

**Requested TATs: 15 days;
5 days;**

***Date Received:* 06/02/2020**

***Date Logged:* 06/02/2020**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2006098-001	H2O	Water	<Not Provided>	<input type="checkbox"/>	A	A	A	A	A							

Test Legend:

1	Radium226_W	2	Radium228_W	3	TDS_W	4	TURBIDITY_W
5	URANIUM_W	6		7		8	
9		10		11		12	

Project Manager: Rosa Venegas

Prepared by: Lilly Ortiz

The following SampID: 001A contains testgroup CHLORAMINES_4500G_W.; The following SampID: 001A contains testgroup General Physical_DW.

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
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http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: H2O WATER COMPANY

Client Contact: Frank Cheng

Contact's Email: fcheng@h2goapp.com

Project:

Comments:

Work Order: 2006098

QC Level:

Date Logged: 6/2/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQUIS ☐ Email ☐ HardCopy ☐ ThirdParty ☒ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2006098-001A	H2O	Water	EDOE U-04 (Uranium) (SUB)	1	5G HDPE, Unpres	<input type="checkbox"/>	<Not Provided>	5 days	None	<input type="checkbox"/>	SubOut
			SM2540C (TDS)			<input type="checkbox"/>		5 days	None	<input type="checkbox"/>	
			E904.0 (Radium-228) (SUB)			<input type="checkbox"/>		5 days	None	<input type="checkbox"/>	SubOut
			E903.0 (Radium-226) (SUB)			<input type="checkbox"/>		5 days	None	<input type="checkbox"/>	SubOut
			E420.4 (Phenolics)			<input type="checkbox"/>		5 days	None	<input type="checkbox"/>	
			E900 (Gross Alpha & Beta) (SUB)			<input type="checkbox"/>		5 days	None	<input type="checkbox"/>	SubOut
			SM9221BF (E Coli) (MTF)			<input type="checkbox"/>		5 days	None	<input type="checkbox"/>	
			General Physical			<input type="checkbox"/>		5 days	None	<input type="checkbox"/>	
			Kelada-01 (Cyanide, Total)			<input type="checkbox"/>		5 days	None	<input type="checkbox"/>	
			SM4500-CL02 Chlorine Dioxide			<input type="checkbox"/>		5 days	None	<input type="checkbox"/>	SubOut
			Chlorine (Speciated) †			<input type="checkbox"/>		5 days	None	<input type="checkbox"/>	
			E200.8 (Metals) <Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Silver, Thallium, Zinc>			<input type="checkbox"/>		5 days	None	<input type="checkbox"/>	
			E552.2 (Haloacetic Acids)			<input type="checkbox"/>		5 days	None	<input type="checkbox"/>	
			E549.2 (Diquat & Paraquat)			<input type="checkbox"/>		5 days	None	<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

Legend:

† Chloramines = Total Chlorine-Free Chlorine



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WORK ORDER SUMMARY

Client Name: H2O WATER COMPANY

Client Contact: Frank Cheng

Contact's Email: fcheng@h2goapp.com

Project:

Comments:

Work Order: 2006098

QC Level:

Date Logged: 6/2/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQUIS ☐ Email ☐ HardCopy ☐ ThirdParty ☒ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2006098-001A	H2O	Water	E548.1 (Endothall)	1	5G HDPE, Unpres	<input type="checkbox"/>	<Not Provided>	5 days	None	<input type="checkbox"/>	
			E525.2 (SVOCs)			<input type="checkbox"/>		5 days	None	<input type="checkbox"/>	
			E525.2 (ON/P Pesticides) <Alachlor_1, Atrazine_1, Diazinon_1, Molinate_1, Simazine_1, Thiobencarb_1>			<input type="checkbox"/>		5 days	None	<input type="checkbox"/>	
			E524.3 (EDB & DBCP)			<input type="checkbox"/>		5 days	None	<input type="checkbox"/>	
			E524.2 (VOCs) <1,1,1-Trichloroethane, 1,1,2-Trichloroethane, 1,1- Dichloroethene, 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,2- Dichloroethane (1,2-DCA), 1,2- Dichloropropane, 1,4-Dichlorobenzene, Benzene, Bromodichloromethane, Bromoform, Carbon tetrachloride, Chlorobenzene, Chloroform, cis-1,2- Dichloroethene, Dibromochloromethane, Ethylbenzene, m,p-Xylene, Methylene chloride, o-Xylene, Styrene, Tetrachloroethene, Toluene, trans-1,2- Dichloroethene, Trichloroethene, Vinyl chloride, Xylenes, Total>			<input type="checkbox"/>		5 days	None	<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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WORK ORDER SUMMARY

Client Name: H2O WATER COMPANY

Client Contact: Frank Cheng

Contact's Email: fcheng@h2goapp.com

Project:

Comments:

Work Order: 2006098

QC Level:

Date Logged: 6/2/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQUIS ☐ Email ☐ HardCopy ☐ ThirdParty ☒ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2006098-001A	H2O	Water	E515.3 (OC Acidic Herbicides) <2,4,5-TP (Silvex)_2, 2,4-D (Dichlorophenoxyacetic acid)_2, Bentazon_2, Dalapon_2, DCPA (mono & diacid)_2, Dicamba_2, Dinoseb (DNBP)_2, Pentachlorophenol (PCP)_2, Picloram_2> E505 (OC Pesticides+PCBs) E300.1 (Inorganic Anions DBP) <Bromate, Chlorate> E300.1 (Inorganic Anions) <Fluoride, Nitrate & Nitrite as N, Nitrate as N, Nitrate as NO3 ⁻ , Nitrite as N, Nitrite as NO2 ⁻ , Sulfate> E1613 (2,3,7,8-TCDD only)	1	5G HDPE, Unpres	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<Not Provided>	5 days 5 days 5 days 15 days	None None None None	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

Legend:

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[illegible]



QUOTATION for ANALYTICAL SERVICES

Requested By: Frank Cheng
H2O Water Company (H2OWC)
1256 W Winton Ave.

Hayward, CA 94545
510-303-5029
fcheng@h2goapp.com
Project: Title 22 Drinking Water Testing

Quote ID: 202581

Prepared DATE: May 14, 2020

Expiration DATE: August 12, 2020

Assigned PM:

Prepared By: Rosa Venegas

Test Name	Test Method	TAT	Matrix	Qty	Unit Price	Total
Tests:						
General Physical		5 days	DW	1	\$40.00	\$40.00
Chlorine (Speciated)	SM4500 Cl G	5 days	W	1	\$40.00	\$40.00
SM2540C (TDS)	SM2540 C-1997	5 days	W	1	\$18.00	\$18.00
E200.8 (Metals)	E200.8	5 days	DW	1	\$95.00	\$95.00
Kelada-01 (Cyanide, Total)	Kelada-01	5 days	W	1	\$45.00	\$45.00
E300.1 (Inorganic Anions)	E300.1	5 days	W	1	\$40.00	\$40.00
E420.4 (Phenolics)	E420.4	5 days	W	1	\$45.00	\$45.00
E524.2 (VOCs)	E524.2	5 days	DW	1	\$75.00	\$75.00
E524.3 (EDB & DBCP)	E524.3	5 days	DW	1	\$50.00	\$50.00
E505 (OC Pesticides+PCBs)	E505	5 days	DW	1	\$110.00	\$110.00
E515.3 (OC Acidic Herbicides)	E515.3	5 days	DW	1	\$110.00	\$110.00
E525.2 (ON/P Pesticides)	E525.2	5 days	DW	1	\$110.00	\$110.00
E525.2 (SVOCs)	E525.2	5 days	DW	1	\$100.00	\$100.00
E548.1 (Endothall)	E548.1	5 days	W	1	\$110.00	\$110.00
E549.2 (Diquat & Paraquat)	E549.2	5 days	DW	1	\$110.00	\$110.00
E1613 (2,3,7,8-TCDD only)	E1613B	15 days	W	1	\$275.00	\$275.00
SM9221BF (E Coli) (MTF)	SM9221BF	5 days	DW	1	\$39.00	\$39.00
E300.1 (Inorganic Anions DBP)	E300.1	5 days	W	1	\$50.00	\$50.00
E552.2 (Haloacetic Acids)	E552.2	5 days	DW	1	\$110.00	\$110.00
Fix-Rate Items:						
E903.0 (Radium-226) (SUB)	E903.0	15 days	W	1	\$135.00	\$135.00
E904.0 (Radium-228) (SUB)	E904.0	18 days	W	1	\$155.00	\$155.00
E900 (Gross Alpha & Beta) (SUB)	E900.0	15 days	W	1	\$60.00	\$60.00
EDOE U-04 (Uranium) (SUB)	EDOE U-04	21 days	W	1	\$95.00	\$95.00
Sample Disposal Fee				1	\$2.00	\$2.00
SM4500-CL02 Chlorine Dioxide	SM4500-CIO2	—	W	1	\$75.00	\$75.00
Write On EDT Report				1	\$0.00	\$0.00
Write On EDT Report				1	\$0.00	\$0.00

Tests SubTotal: \$1,572.00

Fix-Rate Items SubTotal: \$522.00

TOTAL: \$2,094.00

Comments:

The Quote ID number MUST be indicated on the incoming Chain of Custody (COC) at the time of sample submission to ensure that the quoted analytical methodologies & prices are applied.



Sample Receipt Checklist

Client Name: **H2O Water Company**
Project:

Date and Time Received: **6/2/2020 15:55**

Date Logged: **6/2/2020**

Received by: Lilly Ortiz

Logged by: Lilly Ortiz

WorkOrder No: **2006098** Matrix: Water

Carrier: Patrick Johnson (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Sample IDs noted by Client on COC?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Date and Time of collection noted by Client on COC?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Sampler's name noted on COC?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
COC agrees with Quote?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: WET ICE)

Sample/Temp Blank temperature	Temp: 5.6°C	NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/> No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	NA <input type="checkbox"/>

UCMR Samples:

pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes <input type="checkbox"/> No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes <input type="checkbox"/> No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

Comments: The following SampleID(s) does not have collection date: 2006098-001A. pH adjusted in Lab.