



9399 W Higgins Rd Suite 1100
Rosemont, IL 60018

Phone: 877-889-8195
Web: www.culligan.com

IBWA STANDARD OF QUALITY REPORT

Customer Name: Culligan Water Conditioning of M
Customer Address: 2020 Ernest Ave
Missoula, MT 59801

Sample Date: 5/22/2024
Sample Description: RO With Minerals Added
Date Reviewed: 7/2/2024

Sample I.D. 2406011
Report Date 7/2/2024

Inorganic Chemicals (IOCs)

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method
7440-36-0	Antimony	ND	6.00	2.00	ug/L	200.8 R5.4
7440-39-3	Barium	ND	1,000.00	10.00	ug/L	200.7 R4.4
7940-41-7	Beryllium	ND	4.00	0.10	ug/L	200.8 R5.4
	Bromate (BrO3) ^{***}	ND	10.00	2.50	ug/L	300.1
7440-43-9	Cadmium (Cd)	ND	5.00	0.10	ug/L	200.8 R5.4
	Chloramine	ND	4.00	0.02	mg/L	330.5
	Chlorine Dioxide	0.10	0.80		mg/L	STND 4500
	Chlorine, Free	0.02	0.10		mg/L	330.5
	Chlorine, Total	0.03	0.10		mg/L	330.5
7440-47-3	Chromium	ND	50.00	1.00	ug/L	200.8 R5.4
16984-48-8	Fluoride	ND	3.00	0.20	mg/L	300.0 R2.1
	Free Chlorine	0.02			mg/L	330.5
7439-92-1	Lead (Pb)	ND	1.00	1.00	ug/L	200.8 R5.4
7439-97-6	Mercury (Hg)	ND	1.00	0.20	ug/L	245.1 Rev. 3
7440-02-0	Nickel (Ni)	ND	100.00	10.00	ug/L	200.7 R4.4
	Perchlorate	ND	2.00	2.00	ug/L	314.0
7782-49-2	Selenium (Se)	ND	10.00	2.00	ug/L	200.8 R5.4
7440-28-0	Thallium (Tl)	ND	2.00	1.00	ug/L	200.8 R5.4
7440-38-2	Total Arsenic	ND	10.00	1.00	ug/L	200.8 R5.4
	Total Chlorine	0.03			mg/L	330.5

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NELAP Certifications: IL-100213; PA-68-04623; NY-11756; TX-TX269-2007A
State Certifications: IL-IDPH-17598; CA-2958; MT-CERT0091; IA-369; VT-VT02199; WI-399016200;
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Maria Mozdzen
Analytical Lab Manager

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Secondary Inorganic Parameters

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method
7429-90-5	Aluminum Chloride	ND	200.00	2.00	ug/L	200.8 R5.4
		5.02	250.00	0.50	mg/L	300.0
7440-50-8	Copper (Cu)	ND	1.00	0.02	mg/L	200.7 R4.4
	Est TDS By Conductivity	22.85	500.00		mg/L	
7439-89-6	Iron (Fe)	ND		0.05	mg/L	200.7 R4.4
7439-96-5	Manganese (Mn)	ND	0.05	0.02	mg/L	200.7 R4.4
7440-22-4	Silver (Ag)	ND	25.00	0.10	ug/L	200.8 R5.4
14808-79-8	Sulfate	ND	250.00	0.85	mg/L	300.0 R2.1
7440-66-6	Zinc (Zn)	ND	5.00	0.05	mg/L	200.7 R4.4

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Additional Regulated Contaminants

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method
7440-61-1	Uranium (U)	ND	30.00	2.00	ug/L	200.8 R5.4

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Water Properties

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method
	Color	ND	5.00	5.00	color	SM2120C, 21Ed
	Color after Acidification	NM	5.00	5.00	color	SM2120C,21Ed
	Conductivity	37.40			microS/cm	120.1
	pH	7.00	8.50			150.1
	Turbidity	0.14	0.50		NTU	180.1 Rev. 2 1993
	Turbidity Filtered	NA	0.50		NTU	180.1 Rev. 2 1993

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Hardness						
CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method
7440-70-2	Calcium	2.56		0.10	mg/L	200.7 R4.4
	Hardness (CaCO3)	6.44		0.70	mg/L	200.7 R4.4
7439-95-4	Magnesium	ND		0.10	mg/L	200.7 R4.4
7440-23-5	Sodium	0.71		0.10	mg/L	200.7 R4.4

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Uncategorized						
CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method
	Bicarbonate	9.78			mg/L	SM2320B, 21st ED
	Carbonate	0.00			mg/L	SM2320B, 21st ED
	Contract Lab	See Attached Report				
7440-09-7	Potassium	5.43		0.10	mg/L	200.7 R4.4
7631-86-9	Silica	0.41		0.05	mg/L	200.7 R4.4
7440-24-6	Strontium (Sr)	ND		0.05	mg/L	200.7 R4.4
	Total Alkalinity to pH 4.5	9.78			mg/L	SM2320B, 21st ED

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Sample Results

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386) 672-5668

Client: Culligan International

Project ID: 2406011

Client ID: 2406011

Lab ID: 35883910001

Received: 06/06/2024 10:19

Pace Project: 35883910

Collected: 06/06/2024 10:16

Matrix: Drinking Water

Parameters	Report Limit	Results	Units	FDA Limit	Above/Below Limit	IBWA Limit	Above/Below Limit
504.1 GCS EDB and DBCP							
Analytical Method: EPA 504.1				Preparation Method: EPA 604.1			
1,2-Dibromo-3-chloropropane	0.0064	<0.0064	ug/L	0.2	Below	0.2	Below
1,2-Dibromoethane (EDB)	0.0075	<0.0075	ug/L	0.05	Below	0.05	Below
505 GCS PCB-TOX-TCH							
Analytical Method: EPA 505				Preparation Method: EPA 505			
Chlordane (Technical)	0.035	<0.035	ug/L	2	Below	0.5	Below
PCB-1016 (Aroclor 1016)	0.044	<0.044	ug/L				
PCB-1221 (Aroclor 1221)	0.040	<0.040	ug/L				
PCB-1232 (Aroclor 1232)	0.045	<0.045	ug/L				
PCB-1242 (Aroclor 1242)	0.031	<0.031	ug/L				
PCB-1248 (Aroclor 1248)	0.025	<0.025	ug/L				
PCB-1254 (Aroclor 1254)	0.037	<0.037	ug/L				
PCB-1260 (Aroclor 1260)	0.029	<0.029	ug/L				
PCB, Total	0.045	<0.045	ug/L	0.5	Below	0.5	Below
Toxaphene	0.27	<0.27	ug/L	3	Below	3	Below
515.3 Chlorinated Herbicides							
Analytical Method: EPA 615.3				Preparation Method: EPA 515.3			
2,4-D	0.096	<0.096	ug/L	70	Below	70	Below
Dalapon	0.49	<0.49	ug/L	200	Below	200	Below
Dicoseb	0.16	<0.16	ug/L	7	Below	7	Below
Pentachlorophenol	0.014	<0.014	ug/L	1	Below	1	Below
Picloram	0.040	<0.040	ug/L	500	Below	500	Below
2,4,5-TP (Silvex)	0.059	<0.059	ug/L	50	Below	10	Below
525.3 Pesticides Semivolatiles							
Analytical Method: EPA 525.3				Preparation Method: EPA 525.3			
Alachlor	0.029	<0.029	ug/L	2	Below	2	Below
Atrazine	0.015	<0.015	ug/L	3	Below	3	Below
Benzo(a)pyrene	0.019	<0.019	ug/L	0.2	Below	0.2	Below
gamma-BHC (Lindane)	0.0027	<0.0027	ug/L	0.2	Below	0.2	Below
Endrin	0.0023	<0.0023	ug/L	2	Below	2	Below
bis(2-Ethylhexyl)adipate	0.36	<0.36	ug/L	400	Below	400	Below
bis(2-Ethylhexyl)phthalate	0.47	<0.47	ug/L	6	Below	6	Below
Heptachlor	0.014	<0.014	ug/L	0.4	Below	0.4	Below
Heptachlor epoxide	0.0030	<0.0030	ug/L	0.2	Below	0.2	Below
Hexachlorobenzene	0.015	<0.015	ug/L	1	Below	1	Below
Hexachlorocyclopentadiene	0.024	<0.024	ug/L	50	Below	50	Below
Methoxychlor	0.023	<0.023	ug/L	40	Below	40	Below
Simazine	0.040	<0.040	ug/L	4	Below	4	Below
531.2 HPLC Carbamates							
Analytical Method: EPA 531.2							
Aldicarb	0.38	<0.38	ug/L			3	Below
Aldicarb sulfone	0.58	<0.58	ug/L			3	Below
Aldicarb sulfoxide	0.47	<0.47	ug/L			4	Below
Carbofuran	0.59	<0.59	ug/L	40	Below	40	Below
Oxamyl	0.46	<0.46	ug/L	200	Below	200	Below
547 HPLC Glyphosate							
Analytical Method: EPA 547							
Glyphosate	4.2	<4.2	ug/L	700	Below	700	Below
549.2 HPLC Paraquat Diquat							
Analytical Method: EPA 549.2				Preparation Method: EPA 549.2			
Diquat	0.16	<0.16	ug/L	20	Below	20	Below
552.3 Haloacetic Acids							
Analytical Method: EPA 552.3				Preparation Method: EPA 552.3			

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Sample Results

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Project ID: 2406011

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Lab ID: 35883910001

Received 06/06/2024 10:19

Pace Project 35883910

Collected: 06/06/2024 10:16

Matrix: Drinking Water

Parameters	Report Limit	Results	Units	FDA Limit	Above/Below Limit	IBWA Limit	Above/Below Limit
552.3 Haloacetic Acids		Analytical Method: EPA 552.3		Preparation Method: EPA 552.3			
Dibromoacetic Acid	0.43	<0.43	ug/L				
Dichloroacetic Acid	0.39	<0.39	ug/L				
Haloacetic Acids (Total)	0.90	<0.90	ug/L	60	Below	60	Below
Monobromoacetic Acid	0.46	<0.46	ug/L				
Monochloroacetic Acid	0.90	<0.90	ug/L				
Trichloroacetic Acid	0.40	<0.40	ug/L				
548.1 GCS Endothall		Analytical Method: EPA 548.1		Preparation Method: EPA 548.1			
Endothall	3.3	<3.3	ug/L	100	Below	100	Below
8270 MSSV Semivolatile		Analytical Method: EPA 8270		Preparation Method: EPA 3510			
Phenol	0.050	<0.050	ug/L	1	Below	1	Below
524.2 MSV		Analytical Method: EPA 524.2					
Benzene	0.40	<0.40	ug/L	5	Below	1	Below
Bromodichloromethane	0.60	<0.60	ug/L				
Bromoform	0.48	<0.48	ug/L				
Carbon tetrachloride	0.36	<0.36	ug/L	5	Below	2	Below
Chlorobenzene	0.31	<0.31	ug/L	100	Below	50	Below
Chloroform	0.75	<0.75	ug/L				
Dibromochloromethane	0.47	<0.47	ug/L				
1,2-Dichlorobenzene	0.40	<0.40	ug/L	600	Below	600	Below
1,3-Dichlorobenzene	0.29	<0.29	ug/L			600	Below
1,4-Dichlorobenzene	0.33	<0.33	ug/L	75	Below	75	Below
1,1-Dichloroethane	0.71	<0.71	ug/L			50	Below
1,2-Dichloroethane	0.30	<0.30	ug/L	5	Below	2	Below
1,1-Dichloroethene	0.37	<0.37	ug/L	7	Below	2	Below
cis-1,2-Dichloroethene	0.33	<0.33	ug/L	70	Below	70	Below
trans-1,2-Dichloroethene	0.33	<0.33	ug/L	100	Below	100	Below
1,2-Dichloropropane	0.44	<0.44	ug/L	5	Below	5	Below
Ethylbenzene	0.37	<0.37	ug/L	700	Below	700	Below
Methylene Chloride	0.46	<0.46	ug/L	5	Below	3	Below
Methyl tert-butyl ether	0.36	<0.36	ug/L			70	Below
Naphthalene	0.48	<0.48	ug/L			300	Below
Styrene	0.27	<0.27	ug/L	100	Below	100	Below
1,1,2,2-Tetrachloroethane	0.41	<0.41	ug/L			1	Below
Tetrachloroethene	0.41	<0.41	ug/L	5	Below	1	Below
Toluene	0.28	<0.28	ug/L	1000	Below	1000	Below
Total Trihalomethanes (Calc.)	0.75	<0.75	ug/L	80	Below	10	Below
1,2,4-Trichlorobenzene	0.35	<0.35	ug/L	70	Below	9	Below
1,1,1-Trichloroethane	0.29	<0.29	ug/L	200	Below	30	Below
1,1,2-Trichloroethane	0.34	<0.34	ug/L	5	Below	3	Below
Trichloroethene	0.26	<0.26	ug/L	5	Below	1	Below
Vinyl chloride	0.41	<0.41	ug/L	2	Below	2	Below
Xylene (Total)	0.42	<0.42	ug/L	10000	Below	1000	Below
537.1 PFAS Compounds, Water		Analytical Method: EPA 537.1		Preparation Method: EPA 537.1			
11Cl-PF3OUdS	0.0014	<0.0014	ug/L			0.005	Below
9Cl-PF3ONS	0.00099	<0.00099	ug/L			0.005	Below
ADONA	0.00063	<0.00063	ug/L			0.005	Below
HFPO-DA	0.0014	<0.0014	ug/L			0.005	Below

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Pace Project 35883910
Matrix: Drinking Water

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537.1 PFAS Compounds, Water		Analytical Method: EPA 537.1		Preparation Method: EPA 637.1			
NEiFOSAA	0.0081	<0.0081	ug/L			0.005	Below
NMeFOSAA	0.0014	<0.0014	ug/L			0.005	Below
Perfluorobutanesulfonic acid (PFBS)	0.0058	<0.0058	ug/L			0.005	Below
Perfluorodecanoic acid (PFDA)	0.0084	<0.0084	ug/L			0.005	Below
Perfluorohexanoic acid (PFHxA)	0.0011	<0.0011	ug/L			0.005	Below
Perfluorododecanoic acid (PFDoA)	0.0013	<0.0013	ug/L			0.005	Below
Perfluoroheptanoic acid (PFHpA)	0.0088	<0.0088	ug/L			0.005	Below
Perfluorohexanesulfonic acid (PFHxS)	0.0064	<0.0064	ug/L			0.005	Below
Perfluorononanoic acid (PFNA)	0.0017	<0.0017	ug/L			0.005	Below
Perfluorooctanesulfonic acid (PFOS)	0.0010	<0.0010	ug/L			0.005	Below
Perfluorooctanoic acid (PFOA)	0.0076	<0.0076	ug/L			0.005	Below
Perfluorotetradecanoic acid (PFTeDA)	0.0018	<0.0018	ug/L			0.005	Below
Perfluorotridecanoic acid (PFTrDA)	0.0015	<0.0015	ug/L			0.005	Below
Perfluoroundecanoic acid (PFUnA)	0.0017	<0.0017	ug/L			0.005	Below
Total PFAs	0.0016	<0.0016	ug/L			0.01	Below
900.0 Gross Alpha/Beta		Analytical Method: EPA 900.0					
Gross Alpha	2.21	2.21U	pCi/L	15	Below	15	Below
Gross Beta	1.59	4.03	pCi/L	50	Below	50	Below
903.1 Radium 226, DW		Analytical Method: EPA 903.1					
Radium-226	0.584	0.684U	pCi/L	5	Below	5	Below
904.0 Radium 228, DW		Analytical Method: EPA 904.0					
Radium-228	0.660	0.660U	pCi/L	5	Below	5	Below
300.1 Oxhalide IC Anions 14d		Analytical Method: EPA 300.1					
Chlorite	0.56	<0.56	ug/L	1000	Below	1000	Below
335.4 Cyanide, Total		Analytical Method: EPA 335.4		Preparation Method: EPA 335.4			
Cyanide	0.0050	<0.0050	mg/L	0.2	Below	0.2	Below
353.2 Nitrogen, NO2/NO3		Analytical Method: EPA 353.2					
Nitrogen, NO2 plus NO3	0.015	0.031J	mg/L	10	Below	10	Below
Nitrogen, Nitrate	0.025	0.031J	mg/L	10	Below	10	Below
Nitrogen, Nitrite	0.025	<0.025	mg/L	1	Below	1	Below

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Definitions/Qualifiers

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8 East Tower Circle
Ormond Beach, FL 32174
(386) 672-5668

Pace Project 35883910

DEFINITIONS

- DF Dilution Factor
- J Estimated concentration above the adjusted method detection limit and below the adjusted reporting
- U Indicates the compound was analyzed for, but not detected.
- MDL Adjusted Method Detection Limit
- PQL Practical Quantitation Limit
- ND Not Detected at or above adjusted reporting limit.

ANALYTE QUALIFIERS

- 1p The recovery of the analyte in the CRDL standard (also known as the reporting limit verification) exceeded the acceptance criteria. Analyte results below the reporting limits are not affected by high bias.

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State Certifications: IL-IDPH-17598; CA-2958; MT-CERT0091; IA-369; VT-VT02199; WI-399016200;

CO-IL100213; MI-9988; VA-00466

Maria Mozden
Analytical Lab Manager

IBWA STANDARD OF QUALITY REPORT



Pace Analytical Services, LLC.
 1700 Elm Street
 Minneapolis, MN 55414
 Tel: 612-607-1700
 Fax: 612-607-6444

**Drinking Water Analysis Results
 2,3,7,8-TCDD -- USEPA Method 1613B**

Sample ID.....2406011 Date Collected.....06/06/2024
 Client..... PASI Florida Date Received.....06/12/2024
 Lab Sample ID..... 35883910001 Date Extracted.....06/13/2024

	Sample 2406011	Method Blank	Lab Spike	Lab Spike Dup
[2,3,7,8-TCDD]	ND	ND	--	--
EDL	0.83 pg/L	0.94 pg/L	--	--
2,3,7,8-TCDD Recovery	--	--	108%	108%
Spike Recovery Limit	--	--	73-146%	73-146%
RPD				0.1%
IS Recovery	63%	79%	59%	76%
IS Recovery Limits	31-137%	31-137%	25-141%	25-141%
CS Recovery	63%	75%	58%	74%
CS Recovery Limits	42-164%	42-164%	37-158%	37-158%
Filename	E240618A_08	E240617A_07	E240618A_13	E240617A_04
Analysis Date	06/18/2024	06/17/2024	06/18/2024	06/17/2024
Analysis Time	04:34	15:49	07:21	14:09
Analyst	SMT	SMT	JF	SMT
Volume	0.995L	0.983L	1.009L	1.005L
Dilution	NA	NA	NA	NA
ICAL Date	04/17/2024	04/17/2024	04/17/2024	04/17/2024
CCAL Filename	E240618A_02	E240617A_02	E240618A_02	E240617A_02

! = Outside the Control Limits
 ND = Not Detected
 EDL = Estimated Detection Limit
 Limits = Control Limits from Method 1613 (10/94 Revision), Tables 6A and 7A
 RPD = Relative Percent Difference of Lab Spike Recoveries
 IS = Internal Standard [2,3,7,8-TCDD-¹⁵C₁₂]
 CS = Cleanup Standard [2,3,7,8-TCDD-³⁷Cl₂]

Analyst:

Project No.....10696117

N.D. - Indicates that the compound was not detected above the Lab's Reporting Limit - MRL
 N.A. - Indicates that the compound was not analyzed.
 SOQ - Standard of Quality, maximum permissible level of a contaminant in water established by EPA, NPDPWR or IBWA.
 MRL - Method Reporting Limit.
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Reporting Flags

- A = Reporting Limit based on signal to noise (EDL)
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- H2 = Extracted outside of holding time
- I = Isotope ratio out of specification
- J = Estimated value
- L = Suppressive interference, analyte may be biased low
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

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