



9399 West Higgins Road Suite 1100  
Rosemont, IL 60018

Phone: 847 430 1219  
Fax: 847 430 2219

## IBWA STANDARD OF QUALITY REPORT

Customer Name: Keppler Culligan Water Treatme  
Customer Address: 31 Lewis ROad  
Akron, NY 14001

Page 1 of 13

Sample Date: 6/28/2023  
Sample Description: Premium  
Date Reviewed: 8/7/2023

Sample I.D. 2307452  
Report Date 8/7/2023

### 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	0.02	4.00	0.02	mg/L	330.5
	Chlorine Dioxide	0.03	0.80		mg/L	STND 4500
	Chlorine, Free	0.02	0.10		mg/L	330.5
	Chlorine, Total	0.04	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	0.04			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;

CO-IL100213; MI-9988; VA-00466

Maria Mozdzen  
Analytical Lab Manager

## IBWA STANDARD OF QUALITY REPORT

### Secondary Inorganic Parameters

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method
7429-90-5	Aluminum	ND	200.00	2.00	ug/L	200.8 R5.4
	Chloride	15.69	250.00	0.50	mg/L	300.0 R2.1
7440-50-8	Copper (Cu)	ND	1.00	0.02	mg/L	200.7 R4.4
	Est TDS By Conductivity	37.32	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	62.20			microS/cm	120.1
	pH	6.90	8.50			150.1
	Turbidity	0.10	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	2.62		0.10	mg/L	200.7 R4.4
	Hardness (CaCO3)	19.86		0.70	mg/L	200.7 R4.4
7439-95-4	Magnesium	3.23		0.10	mg/L	200.7 R4.4
7440-23-5	Sodium	2.77		0.10	mg/L	200.7 R4.4

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## IBWA STANDARD OF QUALITY REPORT

Uncategorized						
CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method
	Bicarbonate	8.90			mg/L	SM2320B, 18Ed
	Carbonate	0.00			mg/L	SM2320B, 18Ed
	Contract Lab	See Attached Report				
7440-09-7	Potassium	ND		0.10	mg/L	200.7 R4.4
7631-86-9	Silica	ND		0.05	mg/L	200.7 R4.4
7440-24-6	Strontium (Sr)	ND		0.05	mg/L	200.7 R4.4
	Total Alkalinity	8.90			mg/L	SM2320B, 18Ed

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# IBWA STANDARD OF QUALITY REPORT



2307452

Pace Analytical  
Attn: Sample Receiving  
8 East Tower Circle  
Ormond Beach, FL 32174

### IBWA ANNUAL TESTING – FOR CULLIGAN INTERNATIONAL

**SAMPLE SUBMITTED BY:**

Account Number: 10004847  
Account Name: Akron, New York

**CULLIGAN BWP INFORMATION:**

Dealership Location/Name: Kepler Culligan Water Treatment  
Address: 31 Lewis Road  
City: Akron State: NY Zip: 14001

Phone Number: 716-542-4600  
FAX Number: 716-542-4565  
E-MAIL: Drake@www.culligan.com  
Person Taking Sample: Drake Brock  
Date Sample Taken: 6/28/23 Time Sample Taken: 17:30

**SAMPLE INFORMATION (check the appropriate boxes):**

Water Supply: Private  Municipal   
Source: Surface  Well  Unknown

Condition: Treated  Untreated

Water Type: Premium  Fluoridated  DI  Purified   
Demineralized  Spring  RO  Distilled   
Remineralized  Source

Optional Testing: USP23  Optional Testing for NY and PA only

For Questions contact Maria Mozdzen at (847) 430-1219

**LAB USE ONLY:**

Sample received in acceptable condition: Yes \_\_\_\_\_ No \_\_\_\_\_  
Received by: No Pace Date: 7-6-23 Time: 1650  
If not, reason: \_\_\_\_\_  
Disposition of sample: \_\_\_\_\_

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Analytical Lab Manager

# IBWA STANDARD OF QUALITY REPORT



## Sample Results

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

Client: Culligan International

Client ID: 2307452

Project ID: 2307452

Lab ID: 35812189001

Received 07/12/2023 11:22

Pace Project 35812189

Collected: 07/12/2023 11:22

Matrix: Drinking Water

Parameters	Report Limit	Results	Units	FDA Limit	Above/Below Limit	IBWA Limit	Above/Below Limit
<b>504.1 GCS EDB and DBCP</b>							
	Analytical Method: EPA 504.1			Preparation Method: EPA 504.1			
1,2-Dibromo-3-chloropropane	0.0065	<0.0065	ug/L	0.2	Below	0.2	Below
1,2-Dibromoethane (EDB)	0.0076	<0.0076	ug/L	0.05	Below	0.05	Below
<b>505 GCS PCB-TOX-TCH</b>							
	Analytical Method: EPA 505			Preparation Method: EPA 505			
Chlordane (Technical)	0.036	<0.036	ug/L	2	Below	2	Below
PCB-1016 (Aroclor 1016)	0.045	<0.045	ug/L				
PCB-1221 (Aroclor 1221)	0.033	<0.033	ug/L				
PCB-1232 (Aroclor 1232)	0.046	<0.046	ug/L				
PCB-1242 (Aroclor 1242)	0.032	<0.032	ug/L				
PCB-1248 (Aroclor 1248)	0.026	<0.026	ug/L				
PCB-1254 (Aroclor 1254)	0.038	<0.038	ug/L				
PCB-1260 (Aroclor 1260)	0.030	<0.030	ug/L				
PCB, Total	0.046	<0.046	ug/L	0.5	Below	0.5	Below
Toxaphene	0.26	<0.26	ug/L	3	Below	3	Below
<b>515.3 Chlorinated Herbicides</b>							
	Analytical Method: EPA 515.3			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
Dinoseb	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)	0.053	<0.053	ug/L	50	Below	10	Below
<b>525.3 Pesticides Semivolatiles</b>							
	Analytical Method: EPA 525.3			Preparation Method: EPA 525.3			
Alachlor	0.029	<0.029	ug/L	2	Below	2	Below
Atrazine	0.014	<0.014	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	0.46	<0.46	ug/L			6	Below
Heptachlor	0.013	<0.013	ug/L	0.4	Below	0.4	Below
Heptachlor epoxide	0.0030	<0.0030	ug/L	0.2	Below	0.2	Below
Hexachlorobenzene	0.014	<0.014	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	0.039	<0.039	ug/L	4	Below	4	Below
<b>531.2 HPLC Carbamates</b>							
	Analytical Method: EPA 531.2						
Aldicarb	0.36	<0.36	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				
Oxamyl	0.46	<0.46	ug/L	200	Below	200	Below
<b>547 HPLC Glyphosate</b>							
	Analytical Method: EPA 547						
Glyphosate	4.2	<4.2	ug/L	700	Below	700	Below
<b>549.2 HPLC Paraquat Diquat</b>							
	Analytical Method: EPA 549.2			Preparation Method: EPA 549.2			
Diquat	0.16	<0.16	ug/L	20	Below	20	Below
<b>552.3 Haloacetic Acids</b>							
	Analytical Method: EPA 552.3			Preparation Method: EPA 552.3			

08/04/2023 13:20:01

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Client: Culligan International

Client ID: 2307452

Project ID: 2307452

Lab ID: 35812189001

Received 07/12/2023 11:22

Pace Project 35812189

Collected: 07/12/2023 11:22

Matrix: Drinking Water

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<b>552.3 Haloacetic Acids</b>							
Analytical Method: EPA 552.3		Preparation Method: EPA 552.3					
Dibromoacetic Acid	0.43	<0.43	ug/L				
Dichloroacetic Acid	0.24	<0.24	ug/L				
Haloacetic Acids (Total)	0.90	<0.90	ug/L	60	Below	60	Below
Monobromoacetic Acid	0.29	<0.29	ug/L				
Monochloroacetic Acid	0.90	<0.90	ug/L				
Trichloroacetic Acid	0.26	<0.26	ug/L				
<b>548.1 GCS Endothall</b>							
Analytical Method: EPA 548.1		Preparation Method: EPA 548.1					
Endothall	3.3	<3.3	ug/L	100	Below	100	Below
<b>8270 MSSV Semivolatile</b>							
Analytical Method: EPA 8270		Preparation Method: EPA 3510					
Phenol	0.60	<0.60	ug/L				
<b>524.2 MSV</b>							
Analytical Method: EPA 524.2							
Benzene	0.40	<0.40	ug/L	5	Below	1	Below
Bromodichloromethane	0.37	<0.37	ug/L				
Bromoform	0.35	<0.35	ug/L				
Carbon tetrachloride	0.28	<0.28	ug/L	5	Below	5	Below
Chlorobenzene	0.26	<0.26	ug/L	100	Below	50	Below
Chloroform	0.44	<0.44	ug/L				
Dibromochloromethane	0.47	<0.47	ug/L				
1,2-Dichlorobenzene	0.28	<0.28	ug/L	600	Below	600	Below
1,4-Dichlorobenzene	0.30	<0.30	ug/L	75	Below	75	Below
1,2-Dichloroethane	0.30	<0.30	ug/L	5	Below	2	Below
1,1-Dichloroethene	0.29	<0.29	ug/L	7	Below	2	Below
cis-1,2-Dichloroethene	0.33	<0.33	ug/L	70	Below	70	Below
trans-1,2-Dichloroethene	0.27	<0.27	ug/L	100	Below	100	Below
1,2-Dichloropropane	0.44	<0.44	ug/L	5	Below	5	Below
Ethylbenzene	0.23	<0.23	ug/L	700	Below	700	Below
Methylene Chloride	0.44	<0.44	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	0.20	<0.20	ug/L	100	Below	100	Below
1,1,2,2-Tetrachloroethane	0.27	<0.27	ug/L			1	Below
Tetrachloroethene	0.26	<0.26	ug/L	5	Below	1	Below
Toluene	0.28	<0.28	ug/L	1000	Below	1000	Below
Total Trihalomethanes (Calc.)	0.47	<0.47	ug/L	80	Below	10	Below
1,2,4-Trichlorobenzene	0.35	<0.35	ug/L	70	Below	9	Below
1,1,1-Trichloroethane	0.27	<0.27	ug/L	200	Below	30	Below
1,1,2-Trichloroethane	0.28	<0.28	ug/L	5	Below	3	Below
Trichloroethene	0.28	<0.28	ug/L	5	Below	1	Below
Vinyl chloride	0.12	<0.12	ug/L	2	Below	2	Below
Xylene (Total)	0.11	<0.11	ug/L	10000	Below	1000	Below
<b>537.1 PFAS Compounds, Water</b>							
Analytical Method: EPA 537.1		Preparation Method: EPA 537.1					
11CI-PF3OUJS	0.0016	<0.0016	ug/L				
9CI-PF3ONS	0.0011	<0.0011	ug/L				
ADONA	0.00071	<0.00071	ug/L				
HFPO-DA	0.0016	<0.0016	ug/L				
NEFOSAA	0.00091	<0.00091	ug/L			5	Below
NMeFOSAA	0.0015	<0.0015	ug/L			5	Below

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Pace Project 35812189

Collected: 07/12/2023 11:22

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<b>537.1 PFAS Compounds, Water</b>		Analytical Method: EPA 537.1		Preparation Method: EPA 537.1			
Perfluorobutanesulfonic acid	0.00065	<0.00065	ug/L			5	Below
Perfluorodecanoic acid	0.00085	<0.00085	ug/L			5	Below
Perfluorohexanoic acid	0.0013	<0.0013	ug/L			5	Below
Perfluorodecanoic acid	0.0014	<0.0014	ug/L			5	Below
Perfluorheptanoic acid	0.00099	<0.00099	ug/L			5	Below
Perfluorhexanesulfonic acid	0.00072	<0.00072	ug/L			5	Below
Perfluorononanoic acid	0.0019	<0.0019	ug/L			5	Below
Perfluorooctanesulfonic acid	0.0012	<0.0012	ug/L			5	Below
Perfluorooctanoic acid	0.00086	<0.00086	ug/L			5	Below
Perfluorotetradecanoic acid	0.0018	<0.0018	ug/L			5	Below
Perfluorotridecanoic acid	0.0017	<0.0017	ug/L			5	Below
Perfluoroundecanoic acid	0.0019	<0.0019	ug/L			5	Below
Total PFAs	0.0018	<0.0018	ug/L			10	Below
<b>900.0 Gross Alpha/Beta</b>		Analytical Method: EPA 900.0					
Gross Alpha	1.56	1.56U	pCi/L	15	Below	15	Below
Gross Beta	1.66	1.66U	pCi/L	50	Below	50	Below
<b>903.1 Radium 226</b>		Analytical Method: EPA 903.1					
Radium-226	0.653	0.653U	pCi/L				
<b>904.0 Radium 228</b>		Analytical Method: EPA 904.0					
Radium-228	0.560	0.883	pCi/L				
<b>300.1 Oxhalide IC Anions 14d</b>		Analytical Method: EPA 300.1					
Chlorite	0.58	<0.58	ug/L	1000	Below	1000	Below
<b>335.4 Cyanide, Total</b>		Analytical Method: EPA 335.4		Preparation Method: EPA 335.4			
Cyanide	0.0050	<0.0050	mg/L	0.1	Below	0.1	Below
<b>353.2 Nitrogen, NO2/NO3</b>		Analytical Method: EPA 353.2					
Nitrogen, NO2 plus NO3	0.015	<0.015	mg/L	10	Below	10	Below
Nitrogen, Nitrate	0.025	<0.025	mg/L				
Nitrogen, Nitrite	0.025	<0.025	mg/L				

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Maria Mozden  
 Analytical Lab Manager

# IBWA STANDARD OF QUALITY REPORT



## Definitions/Qualifiers

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

Pace Project 35812189

### 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 A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
- 2p LCS recovery high and outside of default acceptance criteria at 141.86%. Samples with activity results less than MDC or RL of 1.0 pCi/L are reportable without additional qualification. 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.
- 3p
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- R1 RPD value was outside control limits.

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, NPDWR or IBWA.

MRL - Method Reporting Limit.

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;

CO-IL100213; MI-9988; VA-00466

Maria Mozden  
Analytical Lab Manager



## IBWA STANDARD OF QUALITY REPORT



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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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