



9399 West Higgins Road Suite 1100
Rosemont, IL 60018

Phone: 847 430 1219
Fax: 847 430 2219

IBWA STANDARD OF QUALITY REPORT

Customer Name: Culligan of Santa Maria
Customer Address: 700 W Cook St
Santa Maria, CA 93458

Page 1 of 12

Sample Date: 3/2/2018
Sample Description: Purified
Date Reviewed: 3/29/2018

Sample I.D. 1802394
Report Date 3/29/2018

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	184.79	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	321.8 Rev. 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	0.00	0.80		mg/L	STND 4500
	Chlorine, Free	0.00	0.10		mg/L	330.5
	Chlorine, Total	0.01	0.10		mg/L	330.5
7440-47-3	Chromium	ND	50.00	0.50	ug/L	200.8 R5.4
16984-48-8	Fluoride	ND	3.00	0.20	mg/L	300.0 R2.1
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	0.20	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	0.01			mg/L	330.5

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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

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	4.20	200.00	2.00	ug/L	200.8 R5.4
	Chloride	0.64	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	3.35	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	3.00	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	3.60			microS/cm	120.1
	pH	6.06	8.50			150.1
	Turbidity	0.22	0.50		NTU	180.1 Rev. 2 1993
	Turbidity Filtered	NM	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	0.29		0.10	mg/L	200.7 R4.4
	Hardness (CaCO3)	0.98			mg/L	200.7 R4.4
7439-95-4	Magnesium	ND		0.10	mg/L	200.7 R4.4
7440-23-5	Sodium	0.16		0.10	mg/L	200.7 R4.4

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Uncategorized						
CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method
	Bicarbonate	2.49			mg/L	SM2320B, 18Ed
	Bromide (Br)	ND		10.00	ug/L	321.8 Rev. 1
	Carbonate	NM			mg/L	SM2320B, 18Ed
	Contract Lab	See Attached Report				
7440-09-7	Potassium	0.31		0.10	mg/L	200.7 R4.4
7631-86-9	Silica	1.19		0.01	mg/L	200.7 R4.4
7440-24-6	Strontium (Sr)	ND		0.05	mg/L	200.7 R4.4
	Tannins	ND		2.00	mg/L	SM 5550

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IBWA STANDARD OF QUALITY REPORT



1802394

Control Number:

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

IBWA ANNUAL TESTING - FOR CULLIGAN INTERNATIONAL

SAMPLE SUBMITTED BY:

Account Number: 4258
Account Name: Santa Maria, California

CULLIGAN BWP INFORMATION:

Dealership Location/Name: Culligan of Santa Maria
Address: 700 West Cook Street
City: Santa Maria State: CA Zip: 93458-5514

Phone Number: 805-922-3585
FAX Number: 805-922-9912
E-MAIL: dan@eculligan.com
Person Taking Sample: DAN ALLEN
Date Sample Taken: 3/2/18 Time Sample Taken: 9:40 A.M.

SAMPLE INFORMATION (check the appropriate boxes):

Water Supply: Private Municipal
Source: Surface Well Unknown I.B.W.A.

Condition: Treated Untreated Cloudy
Colored

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

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

LAB USE ONLY:

Sample received in acceptable condition: Yes _____ No _____
Received by: _____ Date: _____ Time: _____
If not, reason: _____
Disposition of sample: _____

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IBWA STANDARD OF QUALITY REPORT



Sample Results

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

Client: Culligan International

Client ID: 1802394

Project ID: 1802394

Lab ID: 35377783001

Received: 03/06/2018 09:00

Pace Project No.: 35377783

Collected: 03/06/2018 09:00

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 504.1			
1,2-Dibromo-3-chloropropane	0.0062	<0.0062	ug/L	0.2	Below	0.2	Below
1,2-Dibromoethane (EDB)	0.0073	<0.0073	ug/L	0.05	Below	0.05	Below
508.1 GCS Pesticides							
		Analytical Method: EPA 508.1		Preparation Method: EPA 508.1			
Alachlor	0.034	<0.034	ug/L	2	Below	2	Below
gamma-BHC (Lindane)	0.0029	<0.0029	ug/L	0.2	Below	0.2	Below
Chlordane (Technical)	0.045	<0.045	ug/L	2	Below	2	Below
Endrin	0.0067	<0.0067	ug/L	2	Below	2	Below
Heptachlor	0.012	<0.012	ug/L	0.4	Below	0.4	Below
Heptachlor epoxide	0.0029	<0.0029	ug/L	0.2	Below	0.2	Below
Hexachlorobenzene	0.018	<0.018	ug/L	1	Below	1	Below
Hexachlorocyclopentadiene	0.031	<0.031	ug/L	50	Below	50	Below
Methoxychlor	0.049	<0.049	ug/L	40	Below	40	Below
PCB-1016 (Aroclor 1016)	0.077	<0.077	ug/L				
PCB-1221 (Aroclor 1221)	0.028	<0.028	ug/L				
PCB-1232 (Aroclor 1232)	0.028	<0.028	ug/L				
PCB-1242 (Aroclor 1242)	0.049	<0.049	ug/L				
PCB-1248 (Aroclor 1248)	0.060	<0.060	ug/L				
PCB-1254 (Aroclor 1254)	0.022	<0.022	ug/L				
PCB-1260 (Aroclor 1260)	0.064	<0.064	ug/L				
PCB, Total	0.077	<0.077	ug/L	0.5	Below	0.5	Below
Simazine	0.066	<0.066	ug/L	4	Below	4	Below
Toxaphene	0.59	<0.59	ug/L	3	Below	3	Below
515.3 Chlorinated Herbicides							
		Analytical Method: EPA 515.3		Preparation Method: EPA 515.3			
2,4-D	0.081	<0.081	ug/L	70	Below	70	Below
Dalapon	0.89	<0.89	ug/L	200	Below	200	Below
Dinoseb	0.16	<0.16	ug/L	7	Below	7	Below
Pentachlorophenol	0.030	<0.030	ug/L	1	Below	1	Below
Picloram	0.094	<0.094	ug/L	500	Below	500	Below
2,4,5-TP (Silvex)	0.16	<0.16	ug/L	50	Below	10	Below
525.2 Semi Volatile Compounds							
		Analytical Method: EPA 525.2		Preparation Method: EPA 525.2			
Atrazine	0.076	<0.076	ug/L	3	Below	3	Below
Benzo(a)pyrene	0.013	<0.013	ug/L	0.2	Below	0.2	Below
bis(2-Ethylhexyl)adipate	0.37	<0.37	ug/L	400	Below	400	Below
bis(2-Ethylhexyl)phthalate	0.48	<0.48	ug/L			6	Below
531.1 HPLC Carbamates							
		Analytical Method: EPA 531.1					
Aldicarb	0.64	<0.64	ug/L			3	Below
Aldicarb sulfone	0.37	<0.37	ug/L			3	Below
Aldicarb sulfoxide	0.59	<0.59	ug/L			4	Below
Carbofuran	0.32	<0.32	ug/L				
Oxamyl	0.55	<0.55	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	0.30	<0.30	ug/L	20	Below	20	Below
552.3 Haloacetic Acids							
		Analytical Method: EPA 552.3		Preparation Method: EPA 552.3			

03/23/2018 15:58:41

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Maria Mozden
Analytical Lab Manager

IBWA STANDARD OF QUALITY REPORT



Sample Results

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

Client: Culligan International

Client ID: 1802394

Project ID: 1802394

Lab ID: 35377783001

Received: 03/06/2018 09:00

Pace Project No.: 35377783

Collected: 03/06/2018 09:00

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	0.24	<0.24	ug/L				
Haloacetic Acids (Total)	0.67	<0.67	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				
548.1 GCS Endothall							
Analytical Method: EPA 548.1				Preparation Method: EPA 548.1			
Endothall	4.3	<4.3	ug/L	100	Below	100	Below
524.2 MSV							
Analytical Method: EPA 524.2							
Benzene	0.25	<0.25	ug/L	5	Below	1	Below
Bromodichloromethane	0.25	<0.25	ug/L				
Bromoform	0.32	<0.32	ug/L				
Carbon tetrachloride	0.25	<0.25	ug/L	5	Below	5	Below
Chlorobenzene	0.25	<0.25	ug/L	100	Below	50	Below
Chloroform	0.25	<0.25	ug/L				
Dibromochloromethane	0.25	<0.25	ug/L				
1,2-Dichlorobenzene	0.25	<0.25	ug/L	600	Below	600	Below
1,4-Dichlorobenzene	0.25	<0.25	ug/L	75	Below	75	Below
1,2-Dichloroethane	0.25	<0.25	ug/L	5	Below	2	Below
1,1-Dichloroethene	0.25	<0.25	ug/L	7	Below	2	Below
cis-1,2-Dichloroethene	0.25	<0.25	ug/L	70	Below	70	Below
trans-1,2-Dichloroethene	0.25	<0.25	ug/L	100	Below	100	Below
1,2-Dichloropropane	0.25	<0.25	ug/L	5	Below	5	Below
Ethylbenzene	0.25	<0.25	ug/L	700	Below	700	Below
Methylene Chloride	0.44	<0.44	ug/L	5	Below	3	Below
Methyl-tert-butyl ether	0.25	<0.25	ug/L			70	Below
Naphthalene	0.25	<0.25	ug/L			300	Below
Styrene	0.25	<0.25	ug/L	100	Below	100	Below
1,1,2,2-Tetrachloroethane	0.25	<0.25	ug/L			1	Below
Tetrachloroethene	0.25	<0.25	ug/L	5	Below	1	Below
Toluene	0.25	<0.25	ug/L	1000	Below	1000	Below
Total Trihalomethanes (Calc.)	0.32	<0.32	ug/L	80	Below	10	Below
1,2,4-Trichlorobenzene	0.41	<0.41	ug/L	70	Below	9	Below
1,1,1-Trichloroethane	0.25	<0.25	ug/L	200	Below	30	Below
1,1,2-Trichloroethane	0.25	<0.25	ug/L	5	Below	3	Below
Trichloroethene	0.25	<0.25	ug/L	5	Below	1	Below
Vinyl chloride	0.39	<0.39	ug/L	2	Below	2	Below
Xylene (Total)	0.25	<0.25	ug/L	10000	Below	1000	Below
900.0 Gross Alpha/Beta							
Analytical Method: EPA 900.0							
Gross Alpha	1.83	1.83U	pCi/L	15	Below	15	Below
Gross Beta	1.80	1.80U	pCi/L	50	Below	50	Below
903.1 Radium 226							
Analytical Method: EPA 903.1							
Radium-226	0.578	0.578U	pCi/L				
904.0 Radium 228							
Analytical Method: EPA 904.0							
Radium-228	0.773	0.773U	pCi/L				
300.1 Oxihalide IC Anions 14d							
Analytical Method: EPA 300.1							

03/23/2018 15:58:41

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Collected: 03/06/2018 09:00

Matrix: Drinking Water

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Analytical Method: EPA 300.1							
300.1 Oxihalide IC Anions 14d	1.3	<1.3	ug/L	1000	Below	1000	Below
Chlorite							
Analytical Method: EPA 335.4 Preparation Method: EPA 335.4							
335.4 Cyanide, Total	0.0050	<0.0050	mg/L	0.1	Below	0.1	Below
Cyanide							
Analytical Method: EPA 353.2							
353.2 Nitrogen, NO2/NO3 unpres	0.025	0.10	mg/L	10	Below	10	Below
Nitrogen, NO2 plus NO3							
Nitrogen, Nitrate	0.025	0.10	mg/L				
Nitrogen, Nitrite	0.025	<0.025	mg/L				
Analytical Method: EPA 420.4							
420.4 Phenolics, Total Low Lvl	0.00060	<0.00060	mg/L	0.001	Below	0.001	Below
Phenolics, Total Recoverable LL							

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Definitions/Qualifiers

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

Pace Project No.: 35377783

DEFINITIONS

- DF Dilution Factor
- J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
- 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

- L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

03/23/2018 15:58:42

page 6 of 8

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Analytical Lab Manager

IBWA STANDARD OF QUALITY REPORT



Pace Analytical Services, LLC.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

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

Tel: 612-607-1700
Fax: 612-607-6444

Sample ID..... 1802394
Client..... PASI Florida
Lab Sample ID..... 35377783001

Date Collected..... 03/06/2018
Date Received..... 03/07/2018
Date Extracted..... 03/08/2018

	Sample 1802394	Method Blank	Lab Spike	Lab Spike Dup
[2,3,7,8-TCDD]	ND	ND	--	--
EDL	0.83 pg/L	0.62 pg/L	--	--
2,3,7,8-TCDD Recovery	--	--	86%	83%
Spike Recovery Limit	--	--	73-146%	73-146%
RPD			3.4%	
IS Recovery	76%	75%	81%	87%
IS Recovery Limits	31-137%	31-137%	25-141%	25-141%
CS Recovery	101%	90%	101%	98%
CS Recovery Limits	42-164%	42-164%	37-158%	37-158%
Filename	Y180313B_17	F180310B_09	F180310B_03	F180310B_04
Analysis Date	03/14/2018	03/10/2018	03/10/2018	03/10/2018
Analysis Time	03:48	20:15	17:24	17:52
Analyst	SMT	BAL	BAL	BAL
Volume	1.026L	0.959L	0.978L	0.993L
Dilution	NA	NA	NA	NA
ICAL Date	11/12/2017	01/13/2018	01/13/2018	01/13/2018
CCAL Filename	Y180313B_02	F180310B_01	F180310B_01	F180310B_01

- ! = 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-¹³C₁₂]
- CS = Cleanup Standard [2,3,7,8-TCDD-³⁷Cl₄]

Analyst: 

Project No..... 10422806

Report No..... 10422806_1613DW_DFR

Page 7 of 7

N.D. - Indicates that the compound was not detected above the Lab's Reporting Limit - MRL
 N.M. - Indicates that the compound was not measured.
 SOQ - Standard of Quality, maximum permissible level of a contaminant in water established by EPA, NPDR 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

Maria Mozden
Analytical Lab Manager