

## DEUTERATED WATER REPORT

SUBMITTER'S NAME: JASON ~~DOE~~

The following <sup>2</sup>H Water test results provide the PPM (part per million) of deuterium in your submitted samples. A host of natural factors that may play a role in determining the deuterium in your samples is discussed below. The additional information you provided about the sample's source may also be helpful in determining which of these factors are most important.

<u>SAMPLE TYPE</u>	<u>SAMPLE SOURCE</u>	<u>SAMPLE BRAND</u>	<u>MFG/COLLECTION DATE</u>	<u>PPM</u>
SPRING WATER	MADRAS, OREGON (OPAL SPRING)	LIVING SPRING WATER "FOUNTAIN OF TRUTH"	FEBRUARY 2018	139.1

### DISCUSSION

Since evaporation favors hydrogen over the heavier deuterium, water vapor is lower in deuterium. In areas where there is a greater degree of evaporation (equator and deserts) the deuterium content of the surface water is high. On the other hand, where there is less evaporation (Polar Regions and mountains) the deuterium concentration of the surface water is lower. Natural deuterium concentration depends on a number of factors:

- Temperature/Season—Water in cold climates contains less deuterium than water in warmer climates. Winter precipitation contains less deuterium than summer precipitation.
- Water source (fresh vs. ocean)—Oceans contain more deuterium than fresh water. The deuterium concentration in the Atlantic and Pacific Ocean remains fairly constant at 156 ppm. Polar oceans have a much lower concentration.
- Altitude—Water at high altitudes has less deuterium. Water from the Rocky Mountains in Western United States has been measured with 136 ppm deuterium.
- Distance from coastline—heavier water precipitates first so the surface water along western coastlines contains more deuterium than inland areas.
- Distance from the equator—Equatorial waters contain more deuterium than water at the poles. Water from Antarctic ice measures 90 ppm deuterium and water beneath the Sahara desert measure 180 ppm deuterium.



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946



# Data Report

Client Name: H2O To Go / Opal Springs  
P.O. Box 56  
Culver, OR 97734

Reference Number: **18-46751**  
Project: Live Water

Report Date: 1/31/19

Date Received: 12/18/18

Approved by: anp,bj,hkl

Authorized by:

Michelle R Angland  
Lab Manager, Bend

Sample Description: Finished 2x2.5 Glass - Live Water      Sample Date: 1/7/19 10:01 am  
Lab Number: 95642      Sample Comment:      Collected By: Daryl

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
7440-70-2	<b>CALCIUM</b>	5.80	0.5	0.009	mg/L	1.0	200.7	a	1/14/19	ANP	200.7_190114A	
7439-95-4	<b>MAGNESIUM</b>	5.69	0.5	0.001	mg/L	1.0	200.7	a	1/14/19	ANP	200.7_190114A	
7440-09-7	<b>POTASSIUM</b>	2.04	1.0	0.1	mg/L	1.0	200.7	a	1/14/19	ANP	200.7_190114A	
7440-23-5	<b>SODIUM</b>	12.2	0.5	0.05	mg/L	1.0	200.7	a	1/14/19	ANP	200.7_190114A	
24959-67-9	<b>BROMIDE</b>	0.009	0.005	0.00054	mg/L	1.0	300.1	a	1/8/19	BJ	300.1_190108A	
E-10184	<b>ELECTRICAL CONDUCTIVITY</b>	127	10		uS/cm	1.0	SM2510 B	a	1/9/19	HKL	EC_190109	

Notes: \_\_\_\_\_

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.  
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.  
D.F. - Dilution Factor

If you have any questions concerning this report contact us at the above phone number.



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 540 SW Third Street - Corvallis, OR 97333 - 541.753.4946  
 Bend, OR Microbiology (e)  
 20332 Empire Blvd Ste 4 - Bend, OR 97701 - 541.639.8425

## BOTTLED WATER STANDARD OF QUALITY REPORT

Client Name: H2O To Go / Opal Springs  
 P.O. Box 56  
 Culver, OR 97734

Reference Number: **18-46751**

Authorized by:

Michelle R Angland  
 Lab Manager, Bend

Project: Live Water  
 Field ID: Finished 2x2.5 Glass  
 Sample Description: Live Water  
 Sampled By: Daryl  
 Sample Date: 01/07/2019

Lab Number: **95642**  
 Report Date: 01/31/2019  
 Approved By: anp,bj,dst,fm,hkl,hy,nml,pdi

### Inorganic Chemicals (IOCs)

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	Lab	COMMENT
57-12-5	CYANIDE	ND	0.2	0.010	mg/L	OIA-1677-DW	a	
7440-36-0	ANTIMONY	ND	0.006	0.001	mg/L	200.8	a	
7440-38-2	ARSENIC	<b>0.002</b>	0.010	0.001	mg/L	200.8	a	
7440-39-3	BARIUM	<b>0.007</b>	1.0	0.001	mg/L	200.8	a	
7440-41-7	BERYLLIUM	ND	0.004	0.001	mg/L	200.8	a	
7440-43-9	CADMIUM	ND	0.005	0.001	mg/L	200.8	a	
7440-47-3	CHROMIUM	ND	0.05	0.001	mg/L	200.8	a	
16984-48-8	FLUORIDE	<b>0.10</b>	2	0.10	mg/L	300.0	a	
7439-92-1	LEAD	ND	0.005	0.001	mg/L	200.8	a	
7439-97-6	MERCURY	ND	0.001	0.0002	mg/L	245.1	a	
7440-02-0	NICKEL	ND	0.1	0.001	mg/L	200.8	a	
14797-55-8	NITRATE-N	<b>0.23</b>	10	0.10	mg/L	300.0	a	
14797-65-0	NITRITE-N	ND	1.0	0.10	mg/L	300.0	a	
E-10128	TOTAL NITRATE/NITRITE	<b>0.23</b>	10	0.10	mg/L	300.0	a	
7782-49-2	SELENIUM	ND	0.010	0.005	mg/L	200.8	a	
7440-28-0	THALLIUM	ND	0.002	0.001	mg/L	200.8	a	

Notation:

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## BOTTLED WATER STANDARD OF QUALITY REPORT

### Secondary Inorganic Parameters

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	Lab	COMMENT
7429-90-5	ALUMINUM	ND	0.2	0.010	mg/L	200.7	a	
16887-00-6	CHLORIDE	1.7	250	0.1	mg/L	300.0	a	
7440-50-8	COPPER	ND	1.0	0.005	mg/L	200.8	a	
7439-89-6	IRON	ND	0.3	0.050	mg/L	200.7	a	
7439-96-5	MANGANESE	ND	0.05	0.001	mg/L	200.8	a	
7440-22-4	SILVER	ND	0.025	0.001	mg/L	200.8	a	
14808-79-8	SULFATE	1.2	250	0.2	mg/L	300.0	a	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	99	500	10	mg/L	SM2540 C	a	
7440-66-6	ZINC	ND	5.00	0.005	mg/L	200.8	a	

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## BOTTLED WATER STANDARD OF QUALITY REPORT

### Volatile Organic Chemicals (VOCs)

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	Lab	COMMENT
75-35-4	1,1 - DICHLOROETHYLENE	ND	2	0.4	ug/L	524.2	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND	30	0.4	ug/L	524.2	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND	5	0.4	ug/L	524.2	a	
107-06-2	1,2 - DICHLOROETHANE	ND	2	0.4	ug/L	524.2	a	
78-87-5	1,2 - DICHLOROPROPANE	ND	5	0.4	ug/L	524.2	a	
120-82-1	1,2,4 - TRICHLOROBENZENE	ND	9	0.4	ug/L	524.2	a	
71-43-2	BENZENE	ND	1	0.4	ug/L	524.2	a	
56-23-5	CARBON TETRACHLORIDE	ND	2	0.4	ug/L	524.2	a	
156-59-2	CIS - 1,2 - DICHLOROETHYLENE	ND	70	0.4	ug/L	524.2	a	
156-60-5	TRANS - 1,2 - DICHLOROETHYLENE	ND	100	0.4	ug/L	524.2	a	
100-41-4	ETHYLBENZENE	ND	700	0.4	ug/L	524.2	a	
75-09-2	DICHLOROMETHANE	ND	3	0.4	ug/L	524.2	a	
108-90-7	MONOCHLOROBENZENE	ND	50	0.4	ug/L	524.2	a	
95-50-1	O - DICHLOROBENZENE	ND	600	0.4	ug/L	524.2	a	
106-46-7	P - DICHLOROBENZENE	ND	75	0.4	ug/L	524.2	a	
100-42-5	STYRENE	ND	100	0.4	ug/L	524.2	a	
127-18-4	TETRACHLOROETHYLENE	ND	1	0.4	ug/L	524.2	a	
108-88-3	TOLUENE	ND	1000	0.4	ug/L	524.2	a	
79-01-6	TRICHLOROETHYLENE	ND	1	0.4	ug/L	524.2	a	
75-01-4	VINYL CHLORIDE	ND	2	0.4	ug/L	524.2	a	
1330-20-7	XYLENES (TOTAL)	ND	1000	0.4	ug/L	524.2	a	

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## BOTTLED WATER STANDARD OF QUALITY REPORT

### Synthetic Organic Chemicals (SOCs)

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	Lab	COMMENT
94-75-7	2,4 - D	ND	70	0.1	ug/L	515.4	a	
93-72-1	2,4,5 - TP (SILVEX)	ND	10	0.2	ug/L	515.4	a	
16655-82-6	3-HYDROXYCARBOFURAN	ND		1.0	ug/L	531.2	a	
15972-60-8	ALACHLOR	ND	2	0.2	ug/L	525.2	a	
116-06-3	ALDICARB	ND		1.0	ug/L	531.2	a	
1646-88-4	ALDICARB SULFONE	ND		1.6	ug/L	531.2	a	
1646-87-3	ALDICARB SULFOXIDE	ND		1.0	ug/L	531.2	a	
309-00-2	ALDRIN	ND		0.1	ug/L	525.2	a	
1912-24-9	ATRAZINE	ND	3	0.1	ug/L	525.2	a	
50-32-8	BENZO(A)PYRENE	ND	0.2	0.02	ug/L	525.2	a	
23184-66-9	BUTACHLOR	ND		0.1	ug/L	525.2	a	
63-25-2	CARBARYL	ND		1.0	ug/L	531.2	a	
1563-66-2	CARBOFURAN	ND	40	0.9	ug/L	531.2	a	
57-74-9	CHLORDANE	ND	0.5	0.2	ug/L	508.1	a	
75-99-0	DALAPON	ND	200	1	ug/L	515.4	a	
117-81-7	DI(ETHYLHEXYL)-PHTHALATE	ND	6	0.6	ug/L	525.2	a	
103-23-1	DI(ETHYLHEXYL)-ADIPATE	ND	400	0.6	ug/L	525.2	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE (D	ND	0.2	0.02	ug/L	504.1	a	
1918-00-9	DICAMBA	ND		0.2	ug/L	515.4	a	
60-57-1	DIELDRIN	ND		0.1	ug/L	525.2	a	
88-85-7	DINOSEB	ND	7	0.2	ug/L	515.4	a	
1746-01-6	DIOXIN (2,3,7,8-TETRACHLORODIBEN;	ND	30	5	pg/L	1613		Analyzed by PACE_MN
85-00-7	DIQUAT	ND	20	0.4	ug/L	549.2	a	
145-73-3	ENDOTHALL	ND	100	9	ug/L	548.1	a	
72-20-8	ENDRIN	ND	0.2	0.01	ug/L	525.2	a	
106-93-4	1,2 - DIBROMOETHANE (EDB)	ND	0.05	0.01	ug/L	504.1	a	
1071-83-6	GLYPHOSATE	ND	700	6	ug/L	547	a	
76-44-8	HEPTACHLOR	ND	0.4	0.04	ug/L	525.2	a	
1024-57-3	HEPTACHLOR EPOXIDE "B"	ND	0.2	0.02	ug/L	525.2	a	
118-74-1	HEXACHLOROBENZENE	ND	1	0.1	ug/L	525.2	a	
77-47-4	HEXACHLOROCYCLO-PENTADIENE	ND	50	0.1	ug/L	525.2	a	
58-89-9	LINDANE (BHC - GAMMA)	ND	0.2	0.02	ug/L	525.2	a	
16752-77-5	METHOMYL	ND		1.0	ug/L	531.2	a	
72-43-5	METHOXYCHLOR	ND	40	0.1	ug/L	525.2	a	
51218-45-2	METOLACHLOR	ND		0.1	ug/L	525.2	a	
21087-64-9	METRIBUZIN	ND		0.1	ug/L	525.2	a	
23135-22-0	OXAMYL (VYDATE)	ND	200	2	ug/L	531.2	a	
87-86-5	PENTACHLOROPHENOL	ND	1	0.04	ug/L	515.4	a	
1918-02-1	PICLORAM	ND	500	0.1	ug/L	515.4	a	
1336-36-3	POLYCHLORINATED BIPHENYLS (PCB	ND	0.5	0.5	ug/L	508.1	a	
1918-16-7	PROPACHLOR	ND		0.1	ug/L	525.2	a	

## Notation:

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Reference Number: **18-46751**

Lab Number: **95642**

Report Date: **01/31/2019**

## BOTTLED WATER STANDARD OF QUALITY REPORT

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122-34-9	SIMAZINE	ND	4	0.07	ug/L	525.2	a	
8001-35-2	TOXAPHENE	ND	3	1	ug/L	508.1	a	
E-10253	TOTAL PHENOLIC COMPOUNDS	ND	1	1	ug/L	420.4		Analyzed by NSF

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## BOTTLED WATER STANDARD OF QUALITY REPORT

### Water Properties

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	Lab	COMMENT
1332-21-4	ASBESTOS	ND	7	0.098	MFL>10urr	100.2		Analyzed by EMSL
E-10139	HYDROGEN ION (pH)	<b>8.16</b>			pH Units	150.1	a	Temp (C) : 23.9
NA	TASTE	ND		1		SM2160 B	a	
NA	MBAS (Surfactants)	ND			mg/L	SM5540 C		Analyzed By NSF
E-11712	COLOR	ND	15	5	COLOR UI	SM2120 B	a	pH: 8.16
E-11734	ODOR	ND	3	1	TON	SM2150	a	Temperature: 39.6
E-10617	TURBIDITY	ND	1	0.10	NTU	180.1	a	

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## BOTTLED WATER STANDARD OF QUALITY REPORT

### Disinfectants/DBP

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	Lab	COMMENT
15541-45-4	BROMATE	ND	0.010	0.001	mg/L	300.1	a	
10049-04-4	CHLORINE DIOXIDE	ND		0.10	mg/L	SM4500-CIO2 I	a	
7758-19-2	CHLORITE	ND	1.00	0.010	mg/L	300.1	a	
	CHLORAMINES TOTAL	ND	4.0	0.05	mg/L	SM4500-CI G	a	
7782-50-5	FREE CHLORINE RESIDUAL	ND	0.1	0.05	mg/L	SM4500-CI G	a	
NA	HAA(5)	ND	60	2	ug/L	552.3	a	
79-43-6	DICHLOROACETIC ACID	ND		1	ug/L	552.3	a	
76-03-9	TRICHLOROACETIC ACID	ND		1	ug/L	552.3	a	
631-64-1	DIBROMOACETIC ACID	ND		1	ug/L	552.3	a	
79-11-8	MONOCHLOROACETIC ACID	ND		2	ug/L	552.3	a	
79-08-3	MONOBROMOACETIC ACID	ND		1	ug/L	552.3	a	
E-14471	TOTAL TRIHALOMETHANE	ND	10	0.4	ug/L	524.2	a	
75-27-4	BROMODICHLOROMETHANE	ND		0.4	ug/L	524.2	a	
124-48-1	CHLORODIBROMOMETHANE	ND		0.4	ug/L	524.2	a	
67-66-3	CHLOROFORM	ND		0.4	ug/L	524.2	a	
75-25-2	BROMOFORM	ND		0.4	ug/L	524.2	a	

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## BOTTLED WATER STANDARD OF QUALITY REPORT

### Radiological Contaminants

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	Lab	COMMENT
12587-46-1	GROSS ALPHA	ND	15	0	pCi/L	900.0		Analyzed by Pace
12587-47-2	GROSS BETA	ND	50	0	pCi/L	900.0		Analyzed by Pace
13982-63-3	RADIUM 226	ND			pCi/L	903.1		Analyzed by Pace
15262-20-1	RADIUM 228	ND	5	5	pCi/L	904.0		Analyzed by Pace
7440-61-1	URANIUM	ND	0.030	0.001	mg/L	200.8	a	
14859-67-7	RADON	ND			pCi/L	SM7500-Rn B		Analyzed by EEA IN

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## BOTTLED WATER STANDARD OF QUALITY REPORT

### Additional Volatile Organic Chemicals (New York)

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	Lab	COMMENT
542-75-6	1,3-DICHLOROPROPYLENE, TOTAL	ND		0.5	ug/L	524.2	a	
75-34-3	1,1 - DICHLOROETHANE	ND		0.5	ug/L	524.2	a	
563-58-6	1,1 - DICHLOROPROPENE	ND		0.5	ug/L	524.2	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		0.5	ug/L	524.2	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		0.5	ug/L	524.2	a	
87-61-6	1,2,3 - TRICHLOROBENZENE	ND		0.5	ug/L	524.2	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		0.5	ug/L	524.2	a	
95-63-6	1,2,4 - TRIMETHYLBENZENE	ND		0.5	ug/L	524.2	a	
142-28-9	1,3 - DICHLOROPROPANE	ND		0.5	ug/L	524.2	a	
108-67-8	1,3,5 - TRIMETHYLBENZENE	ND		0.5	ug/L	524.2	a	
594-20-7	2,2 - DICHLOROPROPANE	ND		0.5	ug/L	524.2	a	
108-86-1	BROMOBENZENE	ND		0.5	ug/L	524.2	a	
74-97-5	BROMOCHLOROMETHANE	ND		0.5	ug/L	524.2	a	
74-83-9	BROMOMETHANE	ND		0.5	ug/L	524.2	a	
75-00-3	CHLOROETHANE	ND		0.5	ug/L	524.2	a	
74-87-3	CHLOROMETHANE	ND		0.5	ug/L	524.2	a	
10061-01-5	CIS - 1,3 - DICHLOROPROPENE	ND		0.5	ug/L	524.2	a	
74-95-3	DIBROMOMETHANE	ND		0.5	ug/L	524.2	a	
75-71-8	DICHLORODIFLUOROMETHANE	ND		0.5	ug/L	524.2	a	
87-68-3	HEXACHLOROBUTADIENE	ND		0.5	ug/L	524.2	a	
98-82-8	ISOPROPYLBENZENE	ND		0.5	ug/L	524.2	a	
541-73-1	M - DICHLOROBENZENE	ND		0.5	ug/L	524.2	a	
1330-20-7	M/P - XYLENE	ND		0.5	ug/L	524.2	a	
1634-04-4	METHYL TERT-BUTYL ETHER	ND		0.5	ug/L	524.2	a	
104-51-8	N - BUTYLBENZENE	ND		0.5	ug/L	524.2	a	
103-65-1	N - PROPYLBENZENE	ND		0.5	ug/L	524.2	a	
91-20-3	NAPHTHALENE	ND	14	0.5	ug/L	524.2	a	
95-49-8	O - CHLOROTOLUENE	ND		0.5	ug/L	524.2	a	
106-43-4	P - CHLOROTOLUENE	ND		0.5	ug/L	524.2	a	
95-47-6	O - XYLENE	ND		0.5	ug/L	524.2	a	
99-87-6	P - ISOPROPYLTOLUENE	ND		0.5	ug/L	524.2	a	
135-98-8	SEC - BUTYLBENZENE	ND		0.5	ug/L	524.2	a	
98-06-6	TERT - BUTYLBENZENE	ND		0.5	ug/L	524.2	a	
10061-02-6	TRANS- 1,3 - DICHLOROPROPENE	ND		0.5	ug/L	524.2	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		0.5	ug/L	524.2	a	

## Notation:

A Result of "ND" indicates that the compound was not detected above the Lab's Reporting Limit - MRL.  
 SOQ - Standard of Quality, maximum permissible level of a contaminant in water established by CBWA, IBWA or US FDA.  
 MRL - Method Reporting Limit .

## BOTTLED WATER STANDARD OF QUALITY REPORT

### Additional Inorganic Chemicals (New York)

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	Lab	COMMENT
E-11778	HARDNESS	<b>37.9</b>		10	mg CaCO <sub>3</sub>	200.7	a	
E-14506	ALKALINITY	<b>59.1</b>		2	mg CaCO <sub>3</sub>	SM2320 B	a	
NA	CORROSIVITY	<b>-1.03</b>			SI	SM203	a	

**Notation:**

A Result of "ND" indicates that the compound was not detected above the Lab's Reporting Limit - MRL.  
 SOQ - Standard of Quality, maximum permissible level of a contaminant in water established by CBWA, IBWA or US FDA.  
 MRL - Method Reporting Limit .

## BOTTLED WATER STANDARD OF QUALITY REPORT

### Inorganic Chemicals (Massachusetts)

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	Lab	COMMENT
1497-73-0	PERCHLORATE	ND	0.002	0.001	mg/L	331.0		Analyzed by Eurofins Eaton - Monro

Notation:

A Result of "ND" indicates that the compound was not detected above the Lab's Reporting Limit - MRL.  
SOQ - Standard of Quality, maximum permissible level of a contaminant in water established by CBWA, IBWA or US FDA.  
MRL - Method Reporting Limit .

**BOTTLED WATER STANDARD OF QUALITY REPORT**

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	Lab	COMMENT
	TOTAL COLIFORM For Taste Test	<b>A</b>		P/A	per 100mL	SM9223 B	a	

## Notation:

A Result of "ND" indicates that the compound was not detected above the Lab's Reporting Limit - MRL.  
SOQ - Standard of Quality, maximum permissible level of a contaminant in water established by CBWA, IBWA or US FDA.  
MRL - Method Reporting Limit .