

# 2014 DRINKING WATER QUALITY REPORT

If you would like additional information concerning this report about the quality of your drinking water, please contact Tyler Water Utilities at (903)939-8716.

On September 18, 1998, the U.S. Environmental Protection Agency (EPA) adopted a rule requiring all water utilities to provide a detailed annual report informing its customers of the quality of their drinking water. Tyler Water Utilities is proud of our history of providing our customers with a safe and reliable supply of drinking water. In accordance with EPA requirements, the City of Tyler hereby provides this Annual Water Quality Report, which covers the period from January 1, 2014 to December 31, 2014.

#### **PUBLIC PARTICIPATION OPPORTUNITIES**

The public may participate in City Council meetings held every second and fourth Wednesday at 9 a.m. involving water quality matters.

#### REQUIRED INFORMATION

The Texas Commission on Environmental Quality (TCEQ) requires that the following information be provided in this report:

You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some elderly, or immuno-compromised persons such as those undergoing chemotherapy for cancer; those who have undergone organ transplants; those who are undergoing treatment with steroids; and people with HIV/AIDS or other immune system disorders, can be particularly at risk from infections. You should seek advice about drinking water from your physician or health care provider. Additional guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are available from the Safe Drinking Water Hotline at (800)426-4791.

En Espanol: Este reporte incluye informacion importante sobre el agua para tomar. Para asistancia en espanol, favor de llamar al telephono (903)531-1230.

SOURCES OF DRINKING WATER

Tyler Water Utilities receives raw surface water from two major sources. Raw water from Lake Tyler and Lake Tyler East, located approximately eight miles southeast of Tyler, is pumped to Golden Road Water Treatment Plant. Raw water from Lake Palestine, located approximately ten miles southwest of Tyler, is pumped to Lake Palestine Water Treatment Plant. At the treatment plants, raw water is treated, filtered, and disinfected before distribution. Tyler's water distribution system is also supplemented by eleven deep wells tapping the Carrizo-Wilcox aquifer.

### ADDITIONAL INFORMATION

To ensure tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at (800)426-4791. Contaminants may be found in drinking water that may cause taste, color, or odor problems. These problems are not necessarily cause for health concern. For more information on taste, odor, or color of drinking water, please contact Tyler Water Utilities at (903)939-8716. TCEQ completed an assessment of your source water and results indicate that some of our sources are susceptible to certain contaminants. The sampling requirements for your water system are based on this susceptibility and previous sample data. Any detection of these contaminants will be found in this water quality report. For more information on source water assessments and protection efforts at our system, call (903)939-8716.

## **WATER QUALITY RESULTS**

The following tables provide the water quality results of Tyler's drinking water. Please note that a list of definitions has been provided to help you understand the tables

**DEFINITIONS** 

AL (Action Level) - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Contaminant - Any physical, chemical, biological or radiological substance or matter in water.

HRA Avg. (Highest Running Annual Average) - The highest of four (4) values calculated by averaging each quarter's average result with the previous three (3) quarter's average results.

LMPS (Lowest Monthly Percentage of Samples) - The lowest of the monthly percentage of samples that meets the turbidity limit of <0.3 NTU.

MCL (Maximum Contaminant Level) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to MCLGs as feasible using

the best available treatment technology

MCLG (Maximum Contaminant Level Goal) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

N/A - Not Applicable

NTU (Nephelometric Turbidity Unit) - A unit of turbidity determined by measuring the side scattering of light caused by particulate matter.

pCi/l (Picocuries per liter) - A measure of radioactivity
ppb (Parts per Billion) - In drinking water, one atom or molecule of a substance in one billion molecules of water. Example: One cent in 10 million dollars equals

ppm (Parts per Million) - In drinking water, one atom or molecule of a substance in one million molecules of water. Example: One cent in 10 thousand dollars equals one ppm.

TT (Treatment Technique) - A required process intended to reduce the level of a contaminant in drinking water. umho/cm - A unit of measurement for conductivity.

90th Percentile - The value determined by ranking and numbering sample results from highest to lowest (lowest = 1), multiplying the total number of samples by 0.90 (90%), and determining the sample result at the calculated ranking. Example: If 30 samples are collected, the 90th percentile would be the 27th highest sample result.

< (less than sign) - The sign indicating the value was 'less than' or not detected at the detection limit of the analytical method or 'less than' the regulatory limit.

### **CITY OF TYLER DRINKING WATER QUALITY MONITORING ANALYSIS**

January 1, 2014 to December 31, 2014

		Regulate	ed at the Custon	ner's Tap		
Lead / Copper Results	Units	90th Percentile	MCL	MCLG	# of Sites Exceeding AL	Sources in Drinking Water
Copper	ppm	0.5390	AL = 1.3	1.3	0	Corrosion of customer plumbing
Lead	nnm	0.00552	ΔΙ – 0.015	0	1	Corrosion of customer plumbing

The City of Tyler received a "Notice of Violation" in 2014 and was required to submit "Public Notice" in January 2015 for failure to take lead and copper samples in 2014. In 2012, the TCEQ reduced the City of Tyler's monitoring frequency for Lead and Copper from triennial to annual. Prior to 2012, the City of Tyler has triennially sampled for Lead and Copper at representative locations in our distribution system for decades with safe results. We last sampled for Lead and Copper in 2012. No health concerns are documented as evidenced in the 2012 lead and copper samples as listed above, and in this 2014 report.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. This water supply is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

Parameters	Units	1	the Distribution System	1			_	unes in Bellitti 1971		
Parameters  *Total Trihalomethanes (TTHMs)		HRA Average 55.3	Range or Max 40.9-55.3	<b>MCL MC</b> I		3				
Total Haloacetic Acids		<del>  ''                                  </del>				80 0 Chlorination by-product 60 0 Chlorination by-product				
* TTHMs – Some people who drink water con	taining TTHMs in exce					liver, kid				
may have an increased risk of getting cancer.		2.09	1 64 2 08	1 4			Dicinfoct	ant to control microbas		
Chloramines Total Coliform Bacteria	ppm % positiv	2.98 re samples / month	1.64-2.98 No Positive for 2014	+		4 Disinfectant to control microbes 0 Naturally present in the environment				
Fecal coliform / E. coli	, i	e For 2014			MCL = A routine sample ar		and a repeat sample are total coliform			
			he contaminated with I			e is also fecal coliform or <i>E. coli</i> positive.  vastes. Microbes in these wastes can cause sh				
effects, such as diarrhea, cramps, nausea, l										
mmune systems.	Unregulated Ini	tial Distribution S	stem Evaluation – Dis	infection By	roducts					
This evaluation is sampling required by the E						ure regula	tions. Th	e samples are not used for		
compliance, and may have been collected un	der non-standard cond	ditions. EPA also re	equires the data to be re	ported here.				•		
Parameters	Units	HRA Average	Range or Max	MCL	MCL	G	Source in Drinking Water			
Total Trihalomethanes Total Haloacetic Acids	ppb ppb	55.3 28.1	40.9-55.3 24.2-28.1	80 60	0			ion by-product ion by-product		
Total Haloacette Acids	ј ррв	-	at the Treatment Plant	00	0		Cilionnat	ion by-product		
Parameter			eatment Technique)	Level Det	ection	MCL	/MCLG	Source		
Turbidity	gle Measurement		1.00	0.45 N		١ ١	N/A	Soil runoff		
Lowest Mor  Measuring turbidity is required by state and fe	thly Percent Meeting L		<.30	98.56						
drinking water. The City met all turbidity requ	,	e City in determinin	g the effectiveness of th	e cianneauon	and milatio	ii process	es in tem	oving particulate matter in		
	<b>,</b>		reatment Plant and We							
Parameter	Units		Range	MCL		MCL	.G	Source		
Barium	ppm	0.1700	0.0450-0.1700	2		2		Erosion of natural deposi		
Fluoride	ppm	.7000	0.0975-0.7000	4		4		Drinking water additive  Fertilizer runoff; Erosion		
Nitrate	ppm	0.0855	<0.0100-0.0855	10		10		natural deposits		
Cryptosporidium	arrad action H. C. C.	unidani t to t	aread by by	danal	lm er - : 1	on := 4	المام			
Cryptosporidium is a tiny intestinal parasite fabdominal infection (symptoms include naus										
contaminated food that is raw or undercook	ked, exposure to the	feces of animals of	r infected individuals (i	.e. changing	diapers wit	hout was	hing hand	ds afterward), or exposure		
contaminated surfaces. Not everyone exposing the found in the Tyler treated drinking	water. Tyler works to	protect the waters	hed from contamination	and optimize	s the treat	ment pro	cess. Alth			
process removes cryptosporidium, immuno-c	ompromised persons s			propriate preca	utions to a	void infec	tion.			
Jnregulated contaminants are those for wh	nich EPA has not est		lated Parameters	ournose of the	unregula	ted conta	minant m	nonitoring is to assist FP		
determining the occurrence of unregulated of	contaminants in drinki	ng water and whet	her future regulation is	warranted. A	ny unregu	lated con	taminants	detected are reported in		
ollowing table. For additional information and Parameter	d data visit http://www.	epa.gov/safewater/ Units	ucmr/ucmr2/index.html, Average	or call the Sat Range		otline at (8		791). MCLG		
N-Nitrosodiethylamine		ppb	ND ND	ND		N/A		N/A		
Bromodichloromethane		ppb	26.00	6.30-42.3	30	100		N/A		
Bromoform		ppb	1.20	<0.98-1.3		100	)	N/A		
Chloroform		ppb	21.50	7.30-45.0	60	100		N/A		
Dibromochloromethane		ppb	7.50	4.30-10.	50	100	)	N/A		
Parametera			nd Other Constituents			Mavin	····· Caaa	ndani Canatituant Laval		
Parameters Alkalinity, Total		Units ppm	Average 75.30	22.40-13		Waxiii	um Seco	ndary Constituent Level		
Alkalinity, Bicarb.			75.30					N/A		
		ppiii	13.30	22.40-13	2.00					
•		ppm	0.0772	22.40-13 0.0080-0.				0.20		
Aluminum					1300					
Aluminum Conductivity Hardness, Total		ppm	0.0772 236 41	0.0080-0. 205-28 15.20-74	1300 39 4.40			0.20 N/A N/A		
Aluminum Conductivity Hardness, Total Total Dissolved Solids		ppm umho/cm ppm ppm	0.0772 236 41 135	0.0080-0. 205-28 15.20-7- 110-16	1300 39 4.40			0.20 N/A N/A 500		
Aluminum Conductivity Hardness, Total Total Dissolved Solids Total Organic Carbon		ppm umho/cm ppm ppm	0.0772 236 41 135 4.28	0.0080-0. 205-28 15.20-74 110-16 3.38-5.	1300 39 4.40 64 24			0.20 N/A N/A 500 N/A		
Aluminum Conductivity Hardness, Total Total Dissolved Solids Total Organic Carbon Calcium		ppm umho/cm ppm ppm ppm	0.0772 236 41 135 4.28 11.27	0.0080-0. 205-28 15.20-74 110-16 3.38-5. 4.14-21	1300 39 3.40 34 24			0.20 N/A N/A 500 N/A N/A		
Aluminum Conductivity Hardness, Total Total Dissolved Solids Total Organic Carbon Calcium Chloride		ppm umho/cm ppm ppm ppm ppm	0.0772 236 41 135 4.28 11.27	0.0080-0. 205-28 15.20-74 110-16 3.38-5. 4.14-21 9.24-27	1300 1300 1300 1300 140 140 140 140 140 140 140 1			0.20 N/A N/A 500 N/A N/A 300		
Aluminum Conductivity Hardness, Total Total Dissolved Solids Total Organic Carbon Calcium Chloride Magnesium		ppm umho/cm ppm ppm ppm ppm ppm ppm ppm	0.0772 236 41 135 4.28 11.27 15	0.0080-0. 205-26 15.20-74 110-16 3.38-5. 4.14-21 9.24-27 1.17-4.	1300 39 3.40 34 224 70 90 94			0.20 N/A N/A 500 N/A N/A 300 N/A		
Aluminum Conductivity Hardness, Total Total Dissolved Solids Total Organic Carbon Calcium Chloride Magnesium Manganese		ppm umho/cm ppm ppm ppm ppm	0.0772 236 41 135 4.28 11.27	0.0080-0. 205-28 15.20-74 110-16 3.38-5. 4.14-21 9.24-27	1300 39 3.40 34 24 .70 90 94 4000			0.20 N/A N/A 500 N/A N/A 300		
Aluminum Conductivity Hardness, Total Total Dissolved Solids Total Organic Carbon Calcium Chloride Magnesium Manganese Sodium		ppm umho/cm ppm ppm ppm ppm ppm ppm ppm ppm ppm	0.0772 236 41 135 4.28 11.27 15 3.02 0.0330	0.0080-0. 205-26 15.20-74 110-16 3.38-5. 4.14-21 9.24-27 1.17-4. 0.0020-0.	1300 39 34 34 24 .70 .90 .94 4000			0.20 N/A N/A 500 N/A N/A 300 N/A .05		
Aluminum Conductivity Hardness, Total Total Dissolved Solids Total Organic Carbon Calcium Chloride Magnesium Manganese Sodium Copper (2012)		ppm umho/cm ppm ppm ppm ppm ppm ppm ppm ppm ppm p	0.0772 236 41 135 4.28 11.27 15 3.02 0.0330 32	0.0080-0. 205-26 15.20-74 110-16 3.38-5. 4.14-21 9.24-27 1.17-4. 0.0020-0. 12-56	1300 1300 139 1.40 1			0.20 N/A N/A 500 N/A N/A 300 N/A .05 N/A 1.0 0.30		
Aluminum Conductivity Hardness, Total Total Dissolved Solids Total Organic Carbon Calcium Chloride Magnesium Manganese Sodium Copper (2012)		ppm umho/cm ppm ppm ppm ppm ppm ppm ppm ppm ppm p	0.0772 236 41 135 4.28 11.27 15 3.02 0.0330 32 0.043 0.1520 0.0140	0.0080-0. 205-28 15.20-74 110-16 3.38-5. 4.14-21 9.24-27 1.17-4. 0.0020-0. 12-58 0.0019-0. <0.0200-0	1300 1300 139 1.40 140 140 154 160 1600 1600 1600 1600 1600 1600			0.20 N/A N/A 500 N/A N/A 300 N/A .05 N/A 1.0 0.30 N/A		
Aluminum Conductivity Hardness, Total Total Dissolved Solids Total Organic Carbon Calcium Chloride Magnesium Manganese Sodium Copper (2012) Iron Lead (2012) Nickel		ppm umho/cm ppm ppm ppm ppm ppm ppm ppm ppm ppm p	0.0772 236 41 135 4.28 11.27 15 3.02 0.0330 32 0.043 0.1520 0.0140 0.0018	0.0080-0. 205-28 15.20-74 110-16 3.38-5. 4.14-21 9.24-27 1.17-4. 0.0020-0. 12-58 0.0019-0. <0.0200-0 0.0004-0 0.0013-0.	1300 1300 139 1.40 140 140 150 1600			0.20 N/A N/A 500 N/A N/A 300 N/A .05 N/A 1.0 0.30 N/A N/A		
Aluminum Conductivity Hardness, Total Total Dissolved Solids Total Organic Carbon Calcium Chloride Magnesium Manganese Sodium Copper (2012) Iron Lead (2012) Nickel Sulfate		ppm umho/cm ppm ppm ppm ppm ppm ppm ppm ppm ppm p	0.0772 236 41 135 4.28 11.27 15 3.02 0.0330 32 0.043 0.1520 0.0140 0.0018 17.500	0.0080-0. 205-28 15.20-74 110-16 3.38-5. 4.14-21 9.24-27 1.17-4. 0.0020-0. 12-58 0.0019-0. <0.0200-0 0.0013-0. 5.920-47	1300 1300 139 1.40 144 142 170 190 194 14000 1600 1.3710 1.3710 1.0140 1.0024 1.800			0.20 N/A N/A 500 N/A N/A 300 N/A .05 N/A 1.0 0.30 N/A N/A 300		
Aluminum Conductivity Hardness, Total Total Dissolved Solids Total Organic Carbon Calcium Chloride Magnesium Manganese Sodium Copper (2012) Iron Lead (2012) Nickel Sulfate Zinc		ppm umho/cm ppm ppm ppm ppm ppm ppm ppm ppm ppm p	0.0772 236 41 135 4.28 11.27 15 3.02 0.0330 32 0.043 0.1520 0.0140 0.0018	0.0080-0. 205-28 15.20-74 110-16 3.38-5. 4.14-21 9.24-27 1.17-4. 0.0020-0. 12-58 0.0019-0. <0.0200-0 0.0004-0 0.0013-0.	1300 1300 139 1.40 144 142 170 190 194 14000 1600 1.3710 1.0140 10024 1800 1.0150			0.20 N/A N/A 500 N/A N/A 300 N/A .05 N/A 1.0 0.30 N/A N/A		
Aluminum Conductivity Hardness, Total Total Dissolved Solids Total Organic Carbon Calcium Chloride Magnesium Manganese Sodium Copper (2012) Iron Lead (2012) Nickel Sulfate Zinc Monochloroacetic acid		ppm umho/cm ppm ppm ppm ppm ppm ppm ppm ppm ppm p	0.0772 236 41 135 4.28 11.27 15 3.02 0.0330 32 0.043 0.1520 0.0140 0.0018 17.500 0.0060	0.0080-0. 205-28 15.20-74 110-16 3.38-5. 4.14-21 9.24-27 1.17-4. 0.0020-0. 12-58 0.0019-0. <0.0200-0 <0.0004-0 0.0013-0. 5.920-47 <0.0020-0	1300 39 3.40 34 24 .70 .90 .94 .4000 .0 .3710 .0140 .0024 .800 .0150			0.20 N/A N/A 500 N/A N/A 300 N/A .05 N/A 1.0 0.30 N/A N/A 300 5.0		
Aluminum Conductivity Hardness, Total Total Dissolved Solids Total Organic Carbon Calcium Chloride Magnesium Manganese Sodium Copper (2012) Iron Lead (2012) Nickel Sulfate Zinc Monochloroacetic acid Dichloroacetic acid		ppm umho/cm ppm ppm ppm ppm ppm ppm ppm ppm ppm p	0.0772 236 41 135 4.28 11.27 15 3.02 0.0330 32 0.043 0.1520 0.0140 0.0018 17.500 0.0060 1.84	0.0080-0. 205-28 15.20-74 110-16 3.38-5. 4.14-21 9.24-27 1.17-4. 0.0020-0. 12-59 0.0019-0. <0.0004-0 0.0013-0. 5.920-47 <0.0020-0 <2.00-4	1300 39 3.40 34 24 70 90 94 4000 0 1600 .3710 .0140 0024 .800 .0150 .50			0.20 N/A N/A 500 N/A N/A 300 N/A .05 N/A 1.0 0.30 N/A N/A 300 5.0 N/A		
Aluminum Conductivity Hardness, Total Total Dissolved Solids Total Organic Carbon Calcium Chloride Magnesium Manganese Sodium Copper (2012) Iron Lead (2012) Nickel Sulfate Zinc Monochloroacetic acid Trichloroacetic acid		ppm umho/cm ppm ppm ppm ppm ppm ppm ppm ppm ppm p	0.0772 236 41 135 4.28 11.27 15 3.02 0.0330 32 0.043 0.1520 0.0140 0.0018 17.500 0.0060 1.84 12.00	0.0080-0. 205-28 15.20-74 110-16 3.38-5. 4.14-21 9.24-27 1.17-4. 0.0020-0. 12-58 0.0019-0. <0.0200-0 <0.0004-0 0.0013-0. 5.920-47 <0.0020-0 <2.00-4 <1.00-28	1300 139 1.40 1			0.20 N/A N/A 500 N/A N/A 300 N/A .05 N/A 1.0 0.30 N/A N/A N/A N/A N/A N/A N/A N/A		
Aluminum Conductivity Hardness, Total Total Dissolved Solids Total Organic Carbon Calcium Chloride Magnesium Manganese Sodium Copper (2012) Iron Lead (2012) Nickel Sulfate Zinc Monochloroacetic acid Dichloroacetic acid Monobromoacetic acid Dibromoacetic acid		ppm umho/cm ppm ppm ppm ppm ppm ppm ppm ppm ppm p	0.0772 236 41 135 4.28 11.27 15 3.02 0.0330 32 0.043 0.1520 0.0140 0.0018 17.500 0.0060 1.84 12.00 9.04 0.450 1.89	0.0080-0. 205-28 15.20-74 110-16 3.38-5. 4.14-21 9.24-27 1.17-4. 0.0020-0. 12-59 0.0019-0. <0.0200-0 <0.0004-0 0.0013-0. 5.920-47 <0.0020-0 <2.00-4 <1.00-29 <1.00-20 <1.00-20 <1.00-20 <1.00-20 <1.00-20 <1.00-20 <1.00-20 <1.00-20 <1.00-20 <1.00-20 <0.0004-0	1300 139 1.40 1			0.20 N/A N/A N/A 500 N/A N/A 300 N/A .05 N/A 1.0 0.30 N/A		
Aluminum Conductivity Hardness, Total Total Dissolved Solids Total Organic Carbon Calcium Chloride Magnesium Manganese Sodium Copper (2012) Iron Lead (2012) Nickel Sulfate Zinc Monochloroacetic acid Dichloroacetic acid Monobromoacetic acid Dibromoacetic acid		ppm umho/cm ppm ppm ppm ppm ppm ppm ppm ppm ppm p	0.0772 236 41 135 4.28 11.27 15 3.02 0.0330 32 0.043 0.1520 0.0140 0.0018 17.500 0.0060 1.84 12.00 9.04 0.450 1.89 6.10	0.0080-0. 205-28 15.20-74 110-16 3.38-5. 4.14-21 9.24-27 1.17-4. 0.0020-0. 12-59 0.0019-0. <0.0004-0 0.0013-0. 5.920-47 <0.0020-0 <2.00-4 <1.00-29 3.60-22 <1.00-2	1300 139 1.40 1			0.20 N/A N/A N/A 500 N/A N/A 300 N/A .05 N/A 1.0 0.30 N/A		
Aluminum Conductivity Hardness, Total Total Dissolved Solids Total Organic Carbon Calcium Chloride Magnesium Manganese Sodium Copper (2012) Iron Lead (2012) Nickel Sulfate Zinc Monochloroacetic acid Dichloroacetic acid Monobromoacetic acid Dibromoacetic acid Bromochloroacetic acid Bromochloroacetic acid		ppm umho/cm ppm ppm ppm ppm ppm ppm ppm ppm ppm p	0.0772 236 41 135 4.28 11.27 15 3.02 0.0330 32 0.043 0.1520 0.0140 0.0018 17.500 0.0060 1.84 12.00 9.04 0.450 1.89 6.10 r Constituents	0.0080-0. 205-28 15.20-74 110-16 3.38-5. 4.14-21 9.24-27 1.17-4. 0.0020-0. 12-59 0.0019-0. <0.0200-0 <0.0004-0 0.0013-0. 5.920-47 <0.0020-0 <2.00-4 <1.00-29 3.60-22 <1.00-11	1300 139 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.50 1.50 1.50 1.50 1.60 1			0.20 N/A N/A 500 N/A N/A 300 N/A .05 N/A 1.0 0.30 N/A		
Aluminum Conductivity Hardness, Total Total Dissolved Solids Total Organic Carbon Calcium Chloride Magnesium Manganese Sodium Copper (2012) Iron Lead (2012) Nickel Sulfate Zinc Monochloroacetic acid Dichloroacetic acid Monobromoacetic acid Dibromoacetic acid Bromochloroacetic acid Bromochloroacetic acid Bromochloroacetic acid		ppm umho/cm ppm ppm ppm ppm ppm ppm ppm ppm ppm p	0.0772 236 41 135 4.28 11.27 15 3.02 0.0330 32 0.043 0.1520 0.0140 0.0018 17.500 0.0060 1.84 12.00 9.04 0.450 1.89 6.10	0.0080-0. 205-28 15.20-74 110-16 3.38-5. 4.14-21 9.24-27 1.17-4. 0.0020-0. 12-59 0.0019-0. <0.0200-0 <0.0004-0 0.0013-0. 5.920-47 <0.0020-0 <2.00-4 <1.00-29 <1.00-20 <1.00-20 <1.00-20 <1.00-20 <1.00-20 <1.00-20 <1.00-20 <1.00-20 <1.00-20 <1.00-20 <0.0004-0	1300 1300 139 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.50 1			0.20 N/A N/A N/A 500 N/A N/A 300 N/A .05 N/A 1.0 0.30 N/A		
Aluminum Conductivity Hardness, Total Total Dissolved Solids Total Organic Carbon Calcium Chloride Magnesium Manganese Sodium Copper (2012) Iron Lead (2012) Nickel Sulfate Zinc Monochloroacetic acid Dichloroacetic acid Dirbloroacetic acid Dibromoacetic acid Bromochloroacetic acid Bromochloroacetic acid Bromochloroacetic acid Bromochloroacetic acid		ppm umho/cm ppm ppm ppm ppm ppm ppm ppm ppm ppm p	0.0772 236 41 135 4.28 11.27 15 3.02 0.0330 32 0.043 0.1520 0.0140 0.0018 17.500 0.0060 1.84 12.00 9.04 0.450 1.89 6.10 r Constituents Result	0.0080-0. 205-28 15.20-74 110-16 3.38-5. 4.14-21 9.24-27 1.17-4. 0.0020-0. 12-58 0.0019-0. <0.0004-0 0.0013-0. 5.920-47 <0.0020-0 <1.00-28 3.60-22 <1.00-16 1.00-11	1300 139 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.50 1			0.20 N/A N/A 500 N/A N/A 300 N/A .05 N/A 1.0 0.30 N/A		
Aluminum Conductivity Hardness, Total Total Dissolved Solids Total Organic Carbon Calcium Chloride Magnesium Manganese Sodium Copper (2012) Iron Lead (2012) Nickel Sulfate Zinc Monochloroacetic acid Dichloroacetic acid Dirchloroacetic acid Monobromoacetic acid Dibromoacetic acid Bromochloroacetic acid		ppm umho/cm ppm ppm ppm ppm ppm ppm ppm ppm ppm p	0.0772 236 41 135 4.28 11.27 15 3.02 0.0330 32 0.043 0.1520 0.0140 0.0018 17.500 0.0060 1.84 12.00 9.04 0.450 1.89 6.10 r Constituents Result <0.0002	0.0080-0. 205-28 15.20-74 110-16 3.38-5. 4.14-21 9.24-27 1.17-4. 0.0020-0. 12-58 0.0019-0. <0.0004-0 0.0013-0. 5.920-47 <0.0020-0 <2.00-4 <1.00-28 3.60-22 <1.00-10 1.00-11	1300 139 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.50 1			0.20 N/A N/A N/A 500 N/A N/A 300 N/A .05 N/A 1.0 0.30 N/A		
Aluminum Conductivity Hardness, Total Total Dissolved Solids Total Organic Carbon Calcium Chloride Magnesium Manganese Sodium Copper (2012) Iron Lead (2012) Nickel Sulfate Zinc Monochloroacetic acid Dichloroacetic acid Dirhoroacetic acid Dibromoacetic acid Bromochloroacetic acid		ppm umho/cm ppm ppm ppm ppm ppm ppm ppm ppm ppm p	0.0772 236 41 135 4.28 11.27 15 3.02 0.0330 32 0.043 0.1520 0.0140 0.0018 17.500 0.0060 1.84 12.00 9.04 0.450 1.89 6.10 r Constituents Result <0.0002 <0.0007 <0.0002 <0.0004	0.0080-0. 205-28 15.20-74 110-16 3.38-5. 4.14-21 9.24-27 1.17-4. 0.0020-0. 12-58 0.0019-0. <0.0200-0 <0.0004-0 0.0013-0. <5.920-47 <0.0020-0 <1.00-28 <1.00-28 <1.00-10 1.00-11  MCL 0.006 0.016 0.04 0.05	1300   13			0.20 N/A N/A N/A 500 N/A N/A 300 N/A .05 N/A 1.0 0.30 N/A		
Aluminum Conductivity Hardness, Total Total Dissolved Solids Total Organic Carbon Calcium Chloride Magnesium Manganese Sodium Copper (2012) Iron Lead (2012) Nickel Sulfate Zinc Monochloroacetic acid Dichloroacetic acid Dichloroacetic acid Bromochloroacetic acid Dibromoacetic acid Bromochloroacetic acid Chromium Cadmium Chromium		ppm umho/cm ppm ppm ppm ppm ppm ppm ppm ppm ppm p	0.0772 236 41 135 4.28 11.27 15 3.02 0.0330 32 0.043 0.1520 0.0140 0.0018 17.500 0.0060 1.84 12.00 9.04 0.450 1.89 6.10 Constituents Result <0.0002 <0.0007 <0.0002 <0.0004 0.0008	0.0080-0. 205-28 15.20-74 110-16 3.38-5. 4.14-21 9.24-27 1.17-4. 0.0020-0. 12-58 0.0019-0. <0.0200-0 <0.0004-0 0.0013-0. 5.920-47 <0.0020-0 <1.00-28 <1.00-28 <1.00-10 1.00-11  MCL 0.006 0.010 0.04 0.05 0.100	1300   13			0.20 N/A N/A N/A 500 N/A N/A 300 N/A .05 N/A 1.0 0.30 N/A		
Aluminum Conductivity Hardness, Total Total Dissolved Solids Total Organic Carbon Calcium Chloride Magnesium Manganese Sodium Copper (2012) Irron Lead (2012) Nickel Sulfate Zinc Monochloroacetic acid Dichloroacetic acid Dichloroacetic acid Bromochloroacetic acid Dibromoacetic acid Dibromoacetic acid Bromochloroacetic acid Chromium Cadmium Chromium Mercury		ppm umho/cm ppm ppm ppm ppm ppm ppm ppm ppm ppm p	0.0772 236 41 135 4.28 11.27 15 3.02 0.0330 32 0.043 0.1520 0.0140 0.0018 17.500 0.0060 1.84 12.00 9.04 0.450 1.89 6.10 Constituents Result <0.0002 <0.0007 <0.0002 <0.0004 0.0008 0.0008	0.0080-0. 205-28 15.20-74 110-16 3.38-5. 4.14-21 9.24-27 1.17-4. 0.0020-0. <0.0019-0. <0.0004-0 0.0013-0. <5.920-47 <0.0020-0 <1.00-26 <1.00-26 <1.00-16 0.0010 0.011 0.006 0.010 0.005 0.100 0.0002 0.0002 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003	1300   13			0.20 N/A N/A N/A 500 N/A N/A 300 N/A .05 N/A 1.0 0.30 N/A		
Aluminum Conductivity Hardness, Total Total Dissolved Solids Total Organic Carbon Calcium Chloride Magnesium Manganese Sodium Copper (2012) Iron Lead (2012) Nickel Sulfate Zinc Monochloroacetic acid Dichloroacetic acid Dichloroacetic acid Bromochloroacetic acid Dibromoacetic acid Bromochloroacetic acid Chromium Cadmium Chromium Mercury Selenium		ppm umho/cm ppm ppm ppm ppm ppm ppm ppm ppm ppm p	0.0772 236 41 135 4.28 11.27 15 3.02 0.0330 32 0.043 0.1520 0.0140 0.0018 17.500 0.0060 1.84 12.00 9.04 0.450 1.89 6.10 Constituents Result <0.0002 <0.0007 <0.0002 <0.0004 0.0008 0.0008 0.00007 <<0.0015	0.0080-0. 205-28 15.20-74 110-16 3.38-5. 4.14-21 9.24-27 1.17-4. 0.0020-0. <0.0019-0. <0.0004-0 0.0013-0. <5.920-47 <0.0020-0 <1.00-26 <1.00-26 <1.00-16 0.001 0.001 0.001 0.004 0.005 0.0100 0.005 0.005	1300   13			0.20 N/A N/A N/A 500 N/A N/A 300 N/A .05 N/A 1.0 0.30 N/A N/A 300 5.0 N/A N/A N/A N/A N/A N/A N/A OS N/A		
Aluminum Conductivity Hardness, Total Total Dissolved Solids Total Organic Carbon Calcium Chloride Magnesium Manganese Sodium Copper (2012) Iron Lead (2012) Nickel Sulfate Zinc Monochloroacetic acid Dichloroacetic acid Dichloroacetic acid Bromochloroacetic acid Bromochloroacetic acid Bromochloroacetic acid Bromochloroacetic acid Bromochloroacetic acid Bromochloroacetic acid Christian Bromochloroacetic acid		ppm umho/cm ppm ppm ppm ppm ppm ppm ppm ppm ppm p	0.0772 236 41 135 4.28 11.27 15 3.02 0.0330 32 0.043 0.1520 0.0140 0.0018 17.500 0.0060 1.84 12.00 9.04 0.450 1.89 6.10 r Constituents  Result <0.0002 <0.0007 <0.0002 <0.0004 0.0008 0.00007 <0.0008 <0.0007 <0.0001 <0.00015 <0.00015	0.0080-0. 205-28 15.20-74 110-16 3.38-5. 4.14-21 9.24-27 1.17-4. 0.0020-0. <0.0004-0 0.0013-0. <5.920-47 <0.0020-0 <1.00-29 <1.00-20 <1.00-10 0.010 0.010 0.04 0.05 0.100 0.050 0.100	1300   13			0.20 N/A N/A N/A 500 N/A N/A 300 N/A .05 N/A 1.0 0.30 N/A		
Aluminum Conductivity Hardness, Total Total Dissolved Solids Total Organic Carbon Calcium Chloride Magnesium Manganese Sodium Copper (2012) Iron Lead (2012) Nickel Sulfate Zinc Monochloroacetic acid Dichloroacetic acid Dichloroacetic acid Bromochloroacetic acid Bromochloroacetic acid Bromochloroacetic acid Bromochloroacetic acid Bromochloroacetic acid Bromochloroacetic acid Christian Bromochloroacetic acid		ppm umho/cm ppm ppm ppm ppm ppm ppm ppm ppm ppm p	0.0772 236 41 135 4.28 11.27 15 3.02 0.0330 32 0.043 0.1520 0.0140 0.0018 17.500 0.0060 1.84 12.00 9.04 0.450 1.89 6.10 Constituents Result <0.0002 <0.0007 <0.0002 <0.0004 0.0008 0.0008 0.00007 <<0.0015	0.0080-0. 205-28 15.20-74 110-16 3.38-5. 4.14-21 9.24-27 1.17-4. 0.0020-0. <0.0019-0. <0.0004-0 0.0013-0. <5.920-47 <0.0020-0 <1.00-26 <1.00-26 <1.00-16 0.001 0.001 0.001 0.004 0.005 0.0100 0.005 0.005	1300   13			0.20 N/A N/A N/A 500 N/A N/A 300 N/A .05 N/A 1.0 0.30 N/A N/A 300 5.0 N/A N/A N/A N/A N/A N/A N/A OS N/A		
Aluminum Conductivity Hardness, Total Total Dissolved Solids Total Organic Carbon Calcium Chloride Magnesium Manganese Sodium Copper (2012) Iron Lead (2012) Nickel Sulfate Zinc Monochloroacetic acid Dichloroacetic acid Dirbnoacetic acid Dibromoacetic acid Bromochloroacetic acid		ppm umho/cm ppm ppm ppm ppm ppm ppm ppm ppm ppm p	0.0772 236 41 135 4.28 11.27 15 3.02 0.0330 32 0.043 0.1520 0.0140 0.0018 17.500 0.0060 1.84 12.00 9.04 0.450 1.89 6.10 Constituents Result <0.0002 <0.0007 <0.0002 <0.0007 <0.0008 0.0008 0.00007 <0.0001 <0.0001 <0.0001	0.0080-0. 205-28 15.20-74 110-16 3.38-5. 4.14-21 9.24-27 1.17-4. 0.0020-0. <0.0004-0 0.0013-0. <5.920-47 <0.0020-0 <1.00-29 <1.00-20 <1.00-10 0.010 0.010 0.04 0.05 0.100 0.050 0.100	1300   13			0.20 N/A N/A N/A 500 N/A N/A 300 N/A .05 N/A 1.0 0.30 N/A		
Aluminum Conductivity Hardness, Total Total Dissolved Solids Total Organic Carbon Calcium Chloride Magnesium Manganese Sodium Copper (2012) Iron Lead (2012) Nickel Sulfate Zinc Monochloroacetic acid Dichloroacetic acid Monobromoacetic acid Dibromoacetic acid Bromochloroacetic acid		ppm umho/cm ppm ppm ppm ppm ppm ppm ppm ppm ppm p	0.0772 236 41 135 4.28 11.27 15 3.02 0.0330 32 0.043 0.1520 0.0140 0.0018 17.500 0.0060 1.84 12.00 9.04 0.450 1.89 6.10 r Constituents  Result <0.0002 <0.0007 <0.0002 <0.0007 <0.0002 <0.0004 0.0008 0.00007 <0.0001 <0.00015 <0.0004 <0.0002 ctive Parameters	0.0080-0. 205-28 15.20-74 110-16 3.38-5. 4.14-21 9.24-27 1.17-4. 0.0020-0. <0.0019-0. <0.0004-0 0.0013-0. <5.920-47 <0.0020-0 <1.00-29 <1.00-11 1.00-11  MCL 0.006 0.010 0.006 0.010 0.006 0.006 0.006 0.006 0.006 0.006	1300   13	Source: [	Decay of r	0.20 N/A N/A N/A 500 N/A N/A 300 N/A .05 N/A 1.0 0.30 N/A		
Aluminum Conductivity Hardness, Total Total Dissolved Solids Total Organic Carbon Calcium Chloride Magnesium Manganese Sodium Copper (2012) Iron Lead (2012) Nickel Sulfate Zinc Monochloroacetic acid Dichloroacetic acid Trichloroacetic acid Dibromoacetic acid Bromochloroacetic acid		ppm umho/cm ppm ppm ppm ppm ppm ppm ppm ppm ppm p	0.0772 236 41 135 4.28 11.27 15 3.02 0.0330 32 0.043 0.1520 0.0140 0.0018 17.500 0.0060 1.84 12.00 9.04 0.450 1.89 6.10 r Constituents Result <0.0002 <0.0007 <0.0002 <0.0007 <0.0002 <0.0004 0.0008 0.0007 <0.0002 ctive Parameters <3.0 5.1 <1.0	0.0080-0. 205-28 15.20-74 110-16 3.38-5. 4.14-21 9.24-27 1.17-4. 0.0020-0. <0.0019-0. <0.0004-0 0.0013-0. <5.920-47 <0.0020-0 <1.00-29 <1.00-11 1.00-11  MCL 0.006 0.010 0.006 0.010 0.006 0.010 0.006	1300   13	Source: [	Decay of r	0.20 N/A N/A N/A 500 N/A N/A 300 N/A .05 N/A 1.0 0.30 N/A		
Aluminum Conductivity Hardness, Total Total Dissolved Solids Total Organic Carbon Calcium Chloride Magnesium Manganese Sodium Copper (2012) Iron Lead (2012) Nickel Sulfate Zinc Monochloroacetic acid Dichloroacetic acid Trichloroacetic acid Bromochloroacetic acid	Units	ppm umho/cm ppm ppm ppm ppm ppm ppm ppm ppm ppm p	0.0772 236 41 135 4.28 11.27 15 3.02 0.0330 32 0.043 0.1520 0.0140 0.0018 17.500 0.0060 1.84 12.00 9.04 0.450 1.89 6.10 r Constituents  Result <0.0002 <0.0007 <0.0002 <0.0007 <0.0002 <0.0004 0.0008 0.0007 <0.0002 ctive Parameters <3.0 5.1	0.0080-0. 205-28 15.20-74 110-16 3.38-5. 4.14-21 9.24-27 1.17-4. 0.0020-0. <0.0019-0. <0.0004-0 0.0013-0. <5.920-47 <0.0020-0 <1.00-29 <1.00-10 1.00-11  MCL 0.006 0.010 0.016 0.010 0.006 0.010 0.006 0.100 0.006 0.100 0.006 0.100 0.006	1300   13		Decay of r	0.20 N/A N/A N/A 500 N/A N/A 300 N/A .05 N/A 1.0 0.30 N/A		

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