

CONSOLIDATED PUBLIC WATER SUPPLY DISTRICT NO. C-1 2010 WATER QUALITY REPORT

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Missouri Department of Natural Resources ID # MO6024295

Atencion! Este informe contiene informacion muy importante. Traduscalo o prequentele a alguien que lo entienda bien.

The Board of Directors and the Employees want you to know.....

We want to inform you about the water we distribute to your homes and businesses that you drink and use. Please read this report and enjoy the water coming from your tap!

The Missouri Department of Natural Resources regulates water systems and requires them to test their water on a regular basis to ensure its safety. C-1 purchases your water from Missouri American Water Company (MAWC). MAWC is pleased to report that during the past year, the water delivered to C-1 complied with or exceeded all state and federal drinking water requirements with the exception of turbidity. DNR supplies I.D. numbers to water systems in order to tract the systems testing and monitoring results. MAWC's Missouri Department of Natural Resources I.D. number is **MO6010716**. C-1 Water's I.D. number is **MO6024295**. The detectable results of these tests are on the following pages of this report. Any violations of state requirements or standards will be further explained later in this report.

Have you checked out our new website? Take a look! www.pwsdc1.com

Our Financial Responsibilities

The downturn in the economy and the complete lack of commercial and residential development has caused the Water District's revenue to drop 4.2% over the last three years. Since our last customer rate increase on June 1, 2009, the District has received rate increases from our wholesale supplier, Missouri American Water Co., totaling 9%. We are due another inflationary wholesale price increase in October 2011. The price of electric power, fuel, natural gas and all of the other supplies used by the District also continue to rise due to inflation.

Over the past two years, your Board of Directors has been working diligently with the Management of the district to minimize the negative impact of falling revenues on the customer. The District has looked at every facet of the business and has cut expenses in every department. The Board has been faced with difficult decisions which have led to cuts in staffing levels, wage and salary freezes, and reductions in retirement and service benefits as well as the elimination of fleet vehicle privileges for all service personnel and management.

Even with the measures taken, it will still be necessary to pass a rate increase on to our customers in order to remain financially stable. At the June Board Meeting, the Board of Directors voted and approved an average rate increase of 8% to go into effect on July 1, 2011. The additional revenues will be generated by increasing the minimum bill for the standard residential customer by \$2.00 per month while raising the cost of water by 30 cents per every 1000 gallons used over the minimum amount.

The additional revenue will be used for maintenance of our infrastructure so that we may continue distributing your drinking water safely. In addition, to maintain our excellent bond credit rating, Standard & Poors has recommended that we build our cash reserve up to an equivalent of 2 months operating expense. C-1 will now be able to achieve these goals.

The Board of Directors and Management would like to thank you for your continued support throughout these trying financial times. If you would like to observe the decision making process of C-1 Water, please call the District Office for the next scheduled Board Meeting. We are on the job for you!

Your health is important to us!

If you are a person with cancer undergoing chemotherapy or have undergone a transplant(s), or have HIV/Aids, or any other immune system disorder, please seek advice from your health care providers about the water you drink. People who are immune-compromised are more vulnerable to contaminants in drinking water than the general population. The EPA/CDC (Center of Disease Control) Guidelines on appropriate means to lessen your risk of infection by microbial contaminants in drinking water are available from the Safe Drinking Water Hot Line 1-800-426-4791.

Source Water Information

Approximately 80% of MAW's surface water comes from the Missouri River. Nearly 20% comes from the Meramec River. They occasionally purchase small quantities of water from the City of St. Louis Water Division, which also uses the Missouri river as a source of water. For more information about the source supply, contact the City of St. Louis Water Division at 314-868-5640.

The Water Quality Results

Missouri American Water conducts extensive monitoring to ensure that your water meets all water quality standards. The results of their monitoring are reported in the following tables. The state has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Records with a sample year more than one year old are still considered representative. For additional information about the tables below, call the customer service department at 1-866-430-0820 (toll-free).

Table Definitions:

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

MRDL (Maximum Residual Disinfectant Level): The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

MRDLG (Maximum Residual Disinfectant Level Goal): The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.

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

nd: Not detectable at testing limits.

TT (Treatment Technique): A required process intended to reduce the level of a contaminant in drinking water.

ppb (parts per billion): One part substance per billion parts water (or micrograms per liter).

ppm (parts per million): One part substance per millions parts water (or milligrams per liter).

NTU (Nephelometric Turbidity Units): Measurement of the clarity, or turbidity, of water.

90th percentile: For lead and copper testing. 10% of test results are above this level and 90% are below this level.

Level Found: Is the average of all test results for a particular contaminant.

Range of detections: Shows the lowest and highest levels found during a testing period, if only one sample was taken, then this number equals the Level Found.

RAA: Running Annual Average, or the average of sample analytical results for samples taken during the previous four calendar quarters.

Regulated Contaminants

Disinfection By-Products	Monitoring Period	RAA	Range	Unit	MCL	MCLG	Typical Source
No detected results were found in the calendar year of 2010.							

Lead and Copper	Date	90 th Percentile	Range	Unit	AL	Sites Over AL	Typical Source
Copper	2008-2010	0.0181	0.00209-0.0406	ppm	1.3	0	Corrosion of household plumbing systems.
Lead	2008-2010	2.16	1.18-3.3	ppb	15	0	Corrosion of household plumbing systems.

Microbiological	Result	MCL	MCLG	Typical Source
Coliform (TCR)	In the month of February, 6.25% of samples returned positive.	MCL: Systems that collect 40 or more samples per month- no more than 5% positive monthly samples.	0	Naturally present in the environment.

Violations and Health Effects Information

During the 2010 Calendar year, we had the below noted violations(s) of drinking water regulations.

Type	Category	Analyte	Compliance Period
MCL (TCR) Monthly	Maximum Contaminant Level Violation	Coliform (TCR)	2/1/2010 – 2/28/2010

Additional Required Health Effects Language:

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful bacteria, may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.

WARNING! MAKE SURE TO COMPLETELY DISCONNECT YOUR WATER SOFTENER IF YOU ARE NOT USING IT! The source of the coliform problem was at one address; they had quit using their water softener but did not disconnect it from their household plumbing. This allowed contaminated water to seep into their drinking water. When we took the sample from a sterilized outside faucet and had it tested by the lab in Jefferson County, it tested positive for coliform. We want you to stay healthy!

Reseller Contaminants

Regulated Contaminants	Collection Date	Water System	Highest Value	Range	Unit	MCL	MCLG	Typical Source
2, 4-D	4/21/2010	Missouri American Water	0.2	0 – 0.2	ppb	70	70	Runoff from herbicide used on row crops.
Antimony, Total	7/20/2010	Missouri American Water	0.5	0 – 0.5	ppb	6	6	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder.
Arsenic	7/20/2010	Missouri American Water	1	0 – 1	ppb	10		Erosion of natural deposits.
Atrazine	7/20/2010	Missouri American Water	0.4	0 – 0.4	ppb	3	3	Runoff from herbicide used on row crops.
Barium	8/16/2010	Missouri American Water	0.046	0.023 – 0.046	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
DI (2-Ethylhexyl) Phthalate	8/9/2010	Missouri American Water	0.7	0 – 0.7	ppb	6	0	Discharge from rubber and chemical factories.
Fluoride	8/16/2010	Missouri American Water	1.5	1 – 1.5	ppm	4	4	Natural deposits; water additive which promotes strong teeth.
Nickel	10/5/2010	Missouri American Water	0.0022	0 – 0.0022	MG/L	0.1	0.1	
Nitrate-Nitrite	4/22/2010	Missouri American Water	1.99	0 – 1.99	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.

Selenium	2/2/2010	Missouri American Water	5	0 – 5	ppb	50	50	Erosion of natural deposits.
Xylenes, Total	8/16/2010	Missouri American Water	0.0022	0 – 0.0022	ppm	10	10	Discharge from petroleum factories; discharge from chemical factories.

Disinfection Byproducts	Monitoring Period	Water System	Highest RAA	Range	Unit	MCL	MCLG	Typical Source
Total Haloacetic Acids (haa5)	2010	Missouri American Water	20	7.3 – 43.5	ppb	60	0	Byproduct of drinking water chlorination.
TTHM	2010	Missouri American Water	20	3.2 – 62.1	ppb	80	0	Byproduct of drinking water chlorination.

Secondary Contaminants	Collection Date	Water System	Highest Value	Range	Unit	MCL	MCLG	Typical Source
Alkalinity, Total	12/8/2010	Missouri American Water	207	93-207	MG/L			
Boron, Total	2/2/2010	Missouri American Water	0.661	0-0.661	MG/L			
Bromochloro-Acetic Acid	8/9/2010	Missouri American Water	3.5	0-3.5	MG/L			
Calcium	2/2/2010	Missouri American Water	60	10-60	MG/L			
Carbon, Dissolved Organic (DOC)	7/20/2010	Missouri American Water	4.61	2.45-4.61	MG/L			
Chloride	8/16/2010	Missouri American Water	47.2	17.4-47.2	MG/L	250		
Iron	8/16/2010	Missouri American Water	0.14	0-0.14	MG/L	0.3		
Magnesium	8/16/2010	Missouri American Water	28	11-28	MG/L			
Molybdenum, Total	10/5/2010	Missouri American Water	0.003	0-0.003	MG/L			
Potassium	10/5/2010	Missouri American Water	7	0-7	MG/L			
Silica	7/20/2010	Missouri American Water	13	0-13	MG/L			
Sodium	8/16/2010	Missouri American Water	63.4	14.5-63.4	MG/L		20	
Strontium	8/16/2010	Missouri American Water	1.065	0-1.065	MG/L			
Sulfate	8/9/2010	Missouri American	130	14.1-130	MG/L	250		

		Water						
UV Absorbance @254 NM	8/9/2010	Missouri American Water	0.149	0.055-0.149	CM-1			

During the 2010 calendar year, the water system that we purchase water from had the below noted violation(s) of drinking water regulations.

Water System	Type	Category	Analyte	Compliance Period
Missouri American Water	Single Comb Filter Effluent (IESWTR/LT1)	Treatment Technique Violation	Turbidity	6/1/2010-6/30/2010

Substances Expected in Drinking Water

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 (E.P.A.) Safe Drinking Water Hotline **1-800-426-4791**.

The sources of drinking water, both tap and bottled water, include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include:

- a.) **Microbial** contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- b.) **Inorganic** contaminants, such as salt and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- c.) **Pesticides** and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- d.) **Organic** chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also, come from gas stations, urban storm water runoff, and systems.
- e.) **Radioactive** contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

Mailing Labels!

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If you have any questions about this report or any aspect of your water service, please call the office and we will connect you with the contact person that can best answer your questions. This report covers 2010.

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