2014 Annual Drinking Water Quality Report

Consumer Confidence Report (CCR) for the period of January 1 to December 31, 2014

CITY OF MINERAL WELLS - PWS ID No.1820001

YOUR DRINKING WATER IS REGULATED AND MEETS OR EXCEEDS ALL FEDERAL (EPA) DRINKING WATER REQUIREMENTS: This report is intended to provide you with important information about your drinking water and the efforts made by the water system to provide safe drinking water. The analysis was made by using the data from the most recent U.S. Environmental Protection Agency (EPA) required tests and is presented on the enclosed attachment. We hope this information helps you become more knowledgeable about what's in your drinking water. For more information regarding this report contact the City of Mineral Wells Public Works Department at (940) 328-7777.

EN ESPANOL: Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al teléfono (940) 328-7865.

SOURCES OF DRINKING WATER: The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. Your drinking water is obtained from SURFACE water sources. It comes from Lake Palo Pinto, Palo Pinto Creek, and Hilltop Presedimentation Reservoir. 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 pickup substances resulting from the presence of animals or from human activity. 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 EPAs Safe Drinking Water Hotline at (800) 426-4791. Contaminants that may be present in source water include:

Microbial Contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

Inorganic Contaminants, such as salts 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.

Pesticides and Herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.

***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 septic systems.

Radioactive Contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that 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.

Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact the systems business office.

You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some elderly, or immunocompromised persons such as those undergoing chemotherapy for cancer; persons 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 providers. 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

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. We are responsible for providing high quality drinking water, but we 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.

SECONDARY CONSTITUENTS: Many constituents (such as calcium, sodium, or iron) which are often found in drinking water, can cause taste, color, and odor problems. The taste and odor constituents are called secondary constituents and are regulated by the State of Texas, not the EPA. These constituents are not causes for health concern. Therefore, secondaries are not required to be reported in this document but they may greatly affect the appearance and taste of your water.

SOURCE WATER ASSESSMENTS: The TCEQ completed an assessment of your source water and result indicates that some of your sources are susceptible to certain contaminants. The sampling requirements for your water system are based on this susceptibility and previous sample data. Any detections of these contaminants may be found in this Consumer Confident Report. For more information on source water assessments and protection efforts at our system, contact the City of Mineral Wells Public Works Department at (940) 328-7777.

DEFINITIONS: The following tables contain scientific terms and measures, some of which may require explanation.

Maximum Contaminant Level (MCL) - 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.

Maximum Contaminant Level Goal (MCLG) - 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.

Maximum Residual Disinfectant Level (MRDL) - 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.

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

ABBREVIATIONS

MFL	million fibers per liter (a measure of asbestos)
mrem/yr	millirems per year (a measure of radiation absorbed by the body)
N/A	not applicable
NTU	nephelometric turbidity units
pCi/L	picocuries per liter (a measure of radioactivity)
ppb	micrograms per liter (ug/L), or parts per billion, or one ounce in 7,350,000 gallons of water
ppm	parts per million, or milligrams per liter (mg/L)
ppt	parts per trillion, or nanograms per liter
ppq	parts per quadrillion, or picograms per liter

2014 REGULATED CONTAMINANTS DETECTED

Lead and Cooper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	No. Sites Over AL	Units	Violation	Likely Source of Contamination
Cooper	08/01/2013	1.3	1.3	0.0756	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	08/01/2013	0	15	1.86	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

Disinfectant Residual	Collection Date	Average Level	Minimum Level	Maximum Level	MRDL	MRDLG	Units of Measure	Likely Source of Contamination
Chloramine	2014	2.46	2.6	3.9	4.0	<4.0	ppm	Disinfectant used to control microbes.

Systems must complete and submit disinfection data on the Surface Water Monthly Operations Report (SWMOR). On the CCR report, the system must provide disinfectant type, minimum, maximum and average levels.

Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chlorite	2014	0.99	0.14 - 0.99	0.8	1	ppm	N	By-product of drinking water disinfection.
Haloacetic Acids (HAA5)	2014	28.7	10 - 28.7	N/A	60	ppb	N	By-product of drinking water chlorination.
Total Trihalomethanes (TThm)	2014	62.2	29.44 - 62.2	N/A	80	ppb	N	By-product of drinking water chlorination.

Not all sample results may have been used for calculating the Highest Level Detected because some results may be part of an evaluation to determine where compliance sampling should occur in the future.

Inorganics Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	2014	0.087	0.087 - 0.087	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Chromium	2014	3.1	3.1 - 3.1	100	100	ppb	N	Discharge of stell and pulpmills; Erosion of natural deposits.
Fluoride	2014	0.158	0.158 - 0.158	4.0	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate (measured as Nitrogen)	2014	0.0305	0.0305 - 0.0305	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Selenium	2014	3.1	3.1 - 3.1	50	50	ppb	N	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.

Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters	03/09/2011	5.8	5.8 – 5.8	0	50	pCi/L	N	Decay of natural and man-made deposits.

* EPA considers 5- pci/L to be the level of concern for beta particles.

Combined Radium 226/228	03/09/2011	1	1 – 1	0	5	pCi/L	N	Erosion of natural deposits.

Turbidity	Limit (Treatment Technique)	Level Detected	Violation	Likely Source of Contamination
Highest single measurement	1 NTU	0.19 NTU	N	Soil runoff.
Lowest monthly % meeting limit	0.3 NTU	100%	N	Soil runoff.

Turbidity is a measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality and the effetiveness of our filtration.

2014 REGULATED CONTAMINANTS DETECTED (continued)

TOTAL ORGANIC CARBON	Collection Date	Average Level	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Source Water	2014	6.48	5.9 - 7.1	N/A	N/A	ppm	N	Naturally present in the environment
Drinking Water	2014	3.50	2.8 - 5.1	N/A	N/A	ppm	N	Naturally present in the environment
Removal Ratio	2014	1.34	1.09 - 1.5	N/A	N/A	% removal *	N	N/A

* Removal ratio is the percent of TOC removed by the treatment process divided by the percent of TOC required by TCEQ to be removed. This number should be greater than 1.0.

Total Organic Carbon (TOC) no health effects. The disinfectant can combine with TOC to form disinfection by-products. Disinfection is necessary to ensure that water does not have unacceptable levels of pathogens. Byproducts of disinfection include trihalomethanes (THMs) and haloacetic acids (HAA) which are reported elsewhere in this report.

CRYPTOSPORIDIUM MONITORING INFORMATION

In 2009 and 2010 the City of Mineral Wells tested our raw water monthly for Cryptosporidium, a microbial parasite that may be commonly found in surface water. Cryptosporidium may come from animal and human feces in the water shed. The results of our monitoring detected no cryptosporidium present.

TOTAL COLIFORM REPORTED MONTHLY TESTS FOUND NO COLIFORM BACTERIA.

FECAL COLIFORM REPORTED MONTHLY TESTS FOUND NO FECAL COLIFORM BACTERIA.

2014 UNREGULATED CONTAMINANTS DETECTED

Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chloroform	09/10/2014	1.48	1.48 - 1.48	N/A	N/A	ppb	N	By-product of drinking water disinfection.
Bromoform	09/10/2014	18.60	18.6 - 18.6	N/A	N/A	ppb	N	By-product of drinking water disinfection.
Bromodichloromethane	09/10/2014	6.23	6.23 - 6.23	N/A	N/A	ppb	N	By-product of drinking water disinfection.
Dibromochloromethane	09/10/2014	16.5	16.5 - 16.5	N/A	N/A	ppb	N	By-product of drinking water disinfection.

Unregulated contaminants are those for which the EPA has not established drinking water standards. The purpose of the unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulations are warranted.

Secondary and Other Constituents Not Regulated	Collection Date	Highest Level Detected	Range of Levels Detected	Secondary Limit	Units	Violation	Likely Source of Contamination
Bicarbonate	05/21/2014	78.9	78.9 - 78.9	N/A	ppm	N	Corrosion of carbonate rocks such as limestone.
Chloride	05/21/2014	34.7	34.7 - 34.7	300	ppm	N	Abundant naturally occurring element; used in water purification; byproduct of oil field activity.
Hardness as Ca/Mg	05/21/2014	113	113 - 113	N/A	ppm	N	Naturally occurring calcium and magnesium
pH	03/09/2014	7.9	7.9 - 7.9	8.5	pH units	N	Measure of corrosivity of water.
Sodium	05/21/2014	28.0	28.0 - 28.0	N/A	ppm	N	Erosion of natural deposits; byproduct of oil field activity.
Sulfate	05/21/2014	41.5	41.5 - 41.5	300	ppm	N	Naturally occurring; common industrial byproduct; by-product of oil field activity.
Total Alkalinity as CaCO3	05/21/2014	78.9	78.9 - 78.9	N/A	ppm	N	Naturally occurring soluble mineral salts.
Total Dissolved Solids	05/21/2014	24.6	24.6 - 24.6	1000	ppm	N	Total dissolved mineral constituents in water.

No associated adverse health effects.

WATER LOSS ESTIMATE

In the Water Loss Audit submitted to the Texas Water Development Board for the time period of January – December 2014, our system lost an estimated 185,946,000 gallons of water. This calculates to 15.9% loss of total produced water. The TCEQ's acceptable percentage of water loss is 10%. If you have any questions about the Water Loss Audit, please call the City of Mineral Wells Utilities Superintendent, Scott McKennon, at (940) 328-7777.