

2010 Annual Drinking

Water Quality Report

(Consumer Confidence Report)

BMWD BULVERDE HILLS

Phone Number: 210- 357 - 5713

SPECIAL NOTICE

Required language for ALL community public water supplies:

You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some elderly or immunocompromised 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 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.

Public Participation Opportunities

Date: 4th Monday of the Month

Time: 5:00 p.m.

Location: 2055 W. Malone Ave.

Phone Number: 210- 354 - 6500

To learn about future public meetings (concerning your drinking water), or to request to schedule one, please call us.

OUR DRINKING WATER IS REGULATED

This report is a summary of the quality of the water we provide our customers. The analysis was made by using the data from the most recent U.S. Environmental Protection Agency (EPA) required tests and is presented in the attached pages. We hope this information helps you become more knowledgeable about what's in your drinking water.

Source of Drinking Water

The sources of drinking water (both tap water 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:

- 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.

En Español

Este informe incluye información importante sobre el agua potable. Si tiene preguntas o comentarios sobre este informe en español, favor de llamar al tel. (210) 357 - 5713 -para hablar con una persona bilingüe en español.

Where do we get our drinking water?

The source of drinking water used by BMW D BULVERDE HILLS is purchased surface water from Canyon Lake. A Source Water Susceptibility Assessment for your drinking water sources(s) is currently being updated by the Texas Commission on Environmental Quality. This information describes the susceptibility and types of constituents that may come into contact with your drinking water source based on human activities and natural conditions. The information contained in the assessment allows us to focus source water protection strategies. Some of this source water assessment information is available on Texas Drinking Water Watch at <http://dww.tceq.state.tx.us/DWW/> . For more information on source water assessments and protection efforts at our system, please contact us.

ALL drinking water may contain contaminants

When drinking water meets federal standards there may not be any health benefits to purchasing bottled water or point of use devices. 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 EPA's Safe Drinking Water Hotline (1-800-426-4791).

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.

Required Additional Health Information for Lead

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>.

Abbreviations

- NTU - Nephelometric Turbidity Units
- MFL - million fibers per liter (a measure of asbestos)
- pCi/L - picocuries per liter (a measure of radioactivity)
- ppm - parts per million, or milligrams per liter (mg/L)
- ppb - parts per billion, or micrograms per liter
- ppt - parts per trillion, or nanograms per liter
- ppq - parts per quadrillion, or picograms per liter

Definitions

Maximum Contaminant Level Goal or 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 Contaminant Level or 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 residual disinfectant level goal or MRDLG:	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 contaminants.
Maximum residual disinfectant level or 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.
Avg:	Regulatory compliance with some MCLs are based on running annual average of monthly samples.
ppm:	milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.
ppb:	micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.
na:	not applicable.
Definitions:	The following tables contain scientific terms and measures, some of which may require explanation.

Maximum Residual Disinfectant Level

Year	Disinfectant	Average Level	Minimum Level	Maximum Level	MRDL	MRDLG	Unit of Measure	Source of Chemical
2010	Chlorine	0.6	0.2	1.3	4.0	<4.0	ppm	Disinfectant used to control Microbes.

Total Coliform

Total coliform bacteria are used as indicators of microbial contamination of drinking water because testing for them is easy. While not disease-causing organisms themselves, they are often found in association with other microbes that are capable of causing disease. Coliform bacteria are more hardy than many disease-causing organisms; therefore, their absence from water is a good indication that the water is microbiologically safe for human consumption.

Total Coliform: REPORTED MONTHLY TESTS FOUND NO TOTAL COLIFORM BACTERIA.

Fecal Coliform: REPORTED MONTHLY TESTS FOUND NO FECAL COLIFORM BACTERIA.

Turbidity

Turbidity has no health effects. However turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, diarrhea, and associated headaches.

Contaminant	Collection Date	Highest Single Measurement	Lowest Monthly % of Samples Meeting Limits	Turbidity Limits	Unit of Measurement	Violation	Source of Contamination
Turbidity	2010	0.21	100	0.3	NTU	N	Soil Runoff

*TURBIDITY DATA NOT FURNISHED BY TCEQ, WATER SYSTEM MUST COMPLETE THIS SECTION.

Total Organic Carbon

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.

Year	Contaminant	Average Level	Minimum Level	Maximum Level	Unit of Measurement	Source of Contaminant
2010	Source Water	2.89	1.10	7.20	ppm	Naturally found in the environment
2010	Drinking Water	1.84	1.0	3.39	ppm	Naturally found in the environment
2010	Removal Ratio	28.6	9.1	86.1	% of removal	NA

**Secondary and Other Constituents not Regulated
(No associated adverse health effects)**

Constituent	Collection Date	Highest Level Detected	Range of Levels Detected	MCL G	MCL	Units	Violation	Likely Source of Contamination
Aluminum	2006	0.141	.0434 – 0.141	.05	.05	ppm	N	Abundant Naturally Occurring element.
Bicarbonate	2006	280	130 - 280	NA	NA	ppm	N	Corrosion of carbonate rocks such as limestone.
Calcium	2006	74.2	39.6 – 74.2	NA	NA	ppm	N	Abundant Naturally Occurring element.
Chloride	2006	19.3	13.7 – 19.3	300	300	ppm	N	Abundant Naturally Occurring element; used in water purification; byproduct of oil field activity.
Hardness as Ca/Mg	2006	319	176 - 319	NA	300	ppm	N	Naturally Occurring Calcium and Magnesium.
Magnesium	2006	32.4	18.6 – 32.4	NA	NA	ppm	N	Abundant naturally occurring element.
Nickel	2006	.00286	.00147 - .00286	NA	NA	ppm	N	Erosion of natural deposits.
pH	2006	8.11	7.29 – 8.11	>7.0	>7.0	Units	N	Measure of corrosives in water.
Sodium	2006	12.3	12.1 – 12.3	NA	NA	ppm	N	Erosion of natural occurring element.
Sulfate	2006	40.8	26.5 – 40.8	300	300	ppm	N	Naturally occurring; common industrial byproduct; byproduct of oil field activity.
Total Alkalinity as CaCO3	2006	280	130 - 280	NA	NA	ppm	N	Naturally occurring soluble mineral salts.
Total Dissolved Solids	2006	365	205 - 365	1000	1000	ppm	N	Total dissolved mineral constituents in water.
Zinc	2006	.134	.109 - .134	5	5	ppm	N	Moderately abundant naturally occurring element; used in the metal industry.

Regulated Contaminants

Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCL G	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)*	2010	21	10.1 - 24	No goal for the total	60	ppb	N	By-product of drinking water chlorination.

Total Trihalomethanes (TThm)*	2010	81	52.9 - 108.7	No goal for the total	80	ppb	N	By-product of drinking water chlorination.
--------------------------------------	------	----	--------------	-----------------------	----	-----	---	--

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCL G	MCL	Units	Violation	Likely Source of Contamination
Barium	2006	0.0376	0.0282 - 0.0376	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Chromium	2006	5.01	2.17 - 5.01	100	100	ppb	N	Discharge from steel and pulp mills; Erosion of natural deposits.
Fluoride	2006	0.84	0.24 - 0.84	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.

Nitrate [measured as Nitrogen]	2007	0.73	0.73 - 0.73	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCL G	MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters *	2006	11	4.4 - 11	0	50	pCi/L	N	Decay of natural and man-made deposits.
Gross alpha excluding radon and uranium	2006	3	0 - 3	0	15	pCi/L	N	Erosion of natural deposits.

*Note: "The MCL for beta particles is 4 mrem/year, EPA considers 50 pCi/L to be the level of concern for beta particles."

Lead and Copper

Definitions:

Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.

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

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90 th Percentile	# Sites over (AL)	Units	Violation	Likely Source of Contamination
Copper	2009	1.3	1.3	.288	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	2009	0	15	1.1	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

Total Trihalomethanes (TThm)*

Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

Violation Type	Violation Begin	Violation End	Violation Explanation
MCL, AVERAGE	10/01/2010	12/31/2010	Water samples showed that the amount of this contaminant in our drinking water was above its standard (called a maximum contaminant level and abbreviated MCL) for the period indicated.

Steps to Correct Violations

Canyon Lake Water Supply Corporation upgraded operations at the Park Shores Water Treatment Plant by implementing granular activated carbon treatment. BexarMet continues its aggressive flushing program within the Bulverde Hills distribution system to reduce formation of total trihalomethanes.

Confirmed with TCEQ (Christine) this is not a violation running average 80.3.