MILLER GROVE WATER WATER SUPPLY CORPORATION 14966 FM 1567 W CUMBY, TEXAS 75433 903-459-3383

Board of Directors Meeting 2nd Thursday of each month 6:00 p m Corporation Office

Chemical Used: Chlorine Free Violations: 0 Average Level of Quarterly Data: 1.23 Lowest Level of single sample: .47 Highest Level of single sample: 2.03 Unit of Measure: 3.02 – 4.0 MG/L Maximum residual disinfectant level goal (MRDL) 1.00 Source of Chemical: Gas Chlorine

Annual Drinking Water Quality Report

TX1120016 MILLER GROVE WSC

Annual Water Quality Report for the period of January 1 to December 31, 2016	
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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.

MILLER GROVE WSC is Ground Water

For more information regarding this report contact:

Name __Mac Garrett_____

Phone	903-438-6292

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (___903) 459___3716-

Sources 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.

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 system's 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 (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.

Information about Source Water Assessments

A Source Water Susceptibility Assessment for your drinking water source(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.

For more information about your sources of water, please refer to the Source Water Assessment Viewer available at the following URL: http://gis3.tceq.state.tx.us/swav/Controller/index.jsp?wtrsrc=

Further details about sources and source-water assessments are available in Drinking Water Watch at the following URL: http://dww.tceq.texas.gov/DWW

Source Water Name		Type of Water	Report Status	Location
1 - W OF FM 275	PLANT 1 (W OF FM 275)	GW		
2 - FM 275 / N OF PLANT 1	FM 275 / N OF PLANT 1	GW		
3 - W OF FM 275	PLANT 3 (CR W OF FM 275)	GW		
5 - CR 4128 / CR 4131	PLANT 5	GW		
6 - CR / 1 MI NW OF PLANT 1	CR (1 MI NW OF PLANT 1)	GW	Y	
7 - FM 274	FM 274 (N OF CR 4128)	GW		
CASH		GW	Y	

The TCEQ completed an assessment of your source water and results indicated 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 detection of these contaminates may be found in this Consumer Confidence Report. For more information on source water assessments and protection efforts at our system, contact Mac Garrett 903-438-6292.

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)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2016	1.3	1.3	0.266	0	ppm		Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems
Lead	2016	0	15	0.829	0	ppb	Ν	Corrosion of household plumbing systems; Erosion of natural deposits.

Water Quality Test Results

Definitions:	The following tables contain scientific terms and measures, some of which may require explanation.
Avg:	Regulatory compliance with some MCLs are based on running annual average of monthly samples.
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.
Level 1 Assessment:	A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.
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.
Level 2 Assessment:	A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.
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.
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.
MFL	million fibers per liter (a measure of asbestos)
na:	not applicable.

Water Quality Test Results

mrem:	millirems per year (a measure of radiation absorbed by the body)
NTU	nephelometric turbidity units (a measure of turbidity)
pCi/L	picocuries per liter (a measure of radioactivity)
ppb:	micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.
ppm:	milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.
Treatment Technique or TT:	A required process intended to reduce the level of a contaminant in drinking water.
ppt	parts per trillion, or nanograms per liter (ng/L)
ppq	parts per quadrillion, or picograms per liter (pg/L)

This is an alert about your drinking water and cosmetic dental problem that might \affect children under nine years of age. At low levels, fluoride can help prevent cavities, but children drinking water containing more than 2 milligrams per liter (mg/L) of fluoride may develop cosmetic discoloration of their permanent teeth (dental flourosis). The drinking water provided by your community water system Miller Grove WSC has a fluoride concentration of 2.98 mg/L.

Dental fluorosis, in its moderate or severe forms may result in a brown staining and / or pitting of the permanent teeth. This problem occurs only in developing teeth before they erupt from the gums. Children under nine should be provided with alternative sources of water or water that has been treated to remove the fluoride to avoid the possibility of staining and pitting of their permanent teeth. Older children and adults may safely drink the water.

Drinking water containing more than 4 mg/L of fluoride (the Environmental Protection Agency's drinking water standard) can increase your risk of developing bone disease. Your drinking water does not contain more than 4mg/L of fluoride, but we're required to notify you when we discover that the fluoride in your drinking water exceeds the 2 mg/L because of this cosmetic dental problem.

For more information, please call Mac Garrett 903-438-6292 or Miller Grove WSC 03-459-3383. Some home water treatment units are also available to remove fluoride from drinking water. To learn more about available home water treatment units, you may call NSF International at 1-877-8NSF-HELP

Regulated Contaminants

Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2016	19	10.1 - 13	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2016	62	48.8 - 73.4	No goal for the total	80	ppb	N	By-product of drinking water disinfection.
Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	10/01/2015	0.013	0.01 - 0.013	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Chromium	10/01/2015	4.8	4.7 - 4.8	100	100	ppb	N	Discharge from steel and pulp mills; Erosion of natural deposits.
Fluoride	10/01/2015	2.98	2.11 - 2.98	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]	2016	0.08	0.049 - 0.08	10	10	ppm	Ν	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Selenium	10/01/2015	2.9	2.2 - 2.9	50	50	ppb	Ν	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
Combined Radium 226/228	10/01/2015	1.5	1.5 - 1.5	0	5	pCi/L	N	Erosion of natural deposits.

Violations Table

Lead and Copper Rule			
The Lead and Copper Rule protects public hea from corrosion of lead and copper containing p		and copper levels in	drinking water, primarily by reducing water corrosivity. Lead and copper enter drinking water mainly
Violation Type	Violation Begin	Violation End	Violation Explanation
FOLLOW-UP OR ROUTINE TAP M/R (LCR)	10/01/2011	2016	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.
Public Notification Rule			
The Public Notification Rule helps to ensure that with their drinking water (e.g., a boil water eme		ys know if there is a	problem with their drinking water. These notices immediately alert consumers if there is a serious problem
\/!-!-!!-m Toma	Visiation Benin	Violation End	
Violation Type	Violation Begin	Violation End	Violation Explanation

Lead and Copper testing was done in 2016 and the results were negative.

The water loss for our system for 2016 was 12%.