Annual Drinking Water Quality Report

TX2360009

PHELPS Special Utility District ~~ 2018

Annual Water Quality Report for the period of January 1 to December 31, 2018

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.

We hope you take time to look at it and see how high quality our water is.

PHELPS SUD is Ground Water. Our water source is from the Gulf Coast sands. We have three wells that pump from a level of 990 to 1410 feet deep

For more information regarding this report contact:

Name Roark Rohe Manager

Phone 936.295.4051

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (936) 295-4809

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 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.

Phelps Special Utility District 2018 CCR

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.

Phelps Water holds it's regular Board Meetings the 2nd Wednesday of every month, 7:00 pm, at the Districts office located at 455 FM 2296. Everyone is encouraged to attend.

If you wish to be put on the Agenda, please put your matter in writing and bring by our office at least one week in advance.

Information about Source Water Assessments

"High" susceptibility means there are activities near the source water and the natural conditions of the aquifer or watershed make it very likely that chemical constituents may come into contact with the source water. It does **NOT** mean that there are any health risks present.

For more information about your sources of water, please refer to the Source Water Assessment Viewer available at the following URL: http://tceq.gov/gis/swaview

Further details about sources and source-water assessments are available in Drinking Water Watch at the following URL: $\frac{http://dww2.tceq.texas.gov/DWW}{http://dww2.tceq.texas.gov/DWW}$

Source Water Name		Type of Water	Report Status	Location
1 - OLIVER / HWY 190 E	OLIVER / HWY 190 E	GW	High	1535 US Hwy 190
2 - HARPER / HWY 190 W	HARPER / HWY 190 W	GW	High	1444 US Hwy 190
3 - WATSON LAKE RD / PEGODA	WATSON LAKE RD / PEGODA	GW	High	177 B Watson Lakes Rd

The TCEQ completed an assessment of your source water and results indicate 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 contaminants may be found in this Consumer Confident Report. For more information on source water assessments and protection efforts at our system, contact Roark Rohe at 936.295.4051.

Definitions and Abbreviations

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

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

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.

Avg: Regulatory compliance with some MCLs are based on running annual average of monthly samples.

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.

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 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 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 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)

mrem: millirems per year (a measure of radiation absorbed by the body)

na: not applicable.

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.

ppq parts per quadrillion, or picograms per liter (pg/L)

ppt parts per trillion, or nanograms per liter (ng/L)

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

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Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	7/182017	1.3	1.3	0.13	1	ppm	Ν	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household
Lead	7/182017	0	15	3	0	ppb		Corrosion of household plumbing systems; Erosion of natural deposits.

2018 Water Quality Test Results

Disinfection By-Products	Collection Date	Highest Level or Average Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2018	2	0 - 1.6	No goal for the total	60	ppb	N	By-product of drinking water disinfection.

^{&#}x27;* The value in the Highest Level or Average Detected column is the highest average of all HAA5 sample results collected at a location over a year'

Total Trihalomethanes	2018	8	0 - 9.6	No goal for the	80	ppb	N	By-product of drinking water disinfection.
(TTHM)				total				

^{*} The value in the Highest Level or Average Detected column is the highest average of all TTHM sample results collected at a location over a year'

Inorganic Contaminants		Highest Level or Average Detected	J	MCLG	MCL	Units	Violation	Likely Source of Contamination
Arsenic	2018	10	0 - 9.6	0	10	ppb		Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics

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While your drinking water meets EPA standards for arsenic, it does contain low levels of arsenic. EPAs standard balances the current understanding of arsenics possible health effects against the costs of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

Barium	2018	0.162	0.103 - 0.162	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	2018	1,35	0.37 - 1.35	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]	2018	1	0.08 - 0.59	10	10	ppm	Ν	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural
Selenium	2018	13.4	0 - 13.4	50	50	ppb	Ν	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.

Radioactive Contaminants		Highest Level or Average Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters	2018	11.4	10.9 - 11.4	0	4	mrem/yr	N	Decay of natural and man-made deposits.

^{*}EPA considers 50 pCi/L to be the level of concern for beta particles.

Combined Radium 226/228	2018	1.51.5 - 1.5	1 - 3	0	5	pCi/L	Z	Erosion of natural deposits.
Uranium	2018	1.5	1.5 - 1.5	0	30	ug/l	Z	Erosion of natural deposits.
Gross Alpha excluding Radon and Uranium	6/16/2016	5	5 - 5	0	15	pCi/L	2	Erosion of natural deposits.

Disinfectant Residual

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Source in Drinking Water
	2018	1.4	1.1 - 4	4	4	ppm	N	Water additive used to control microbes.