

Pecan Grove Municipal Utility District

Public Water System ID 0790132

2015 Water Quality Report

The Board of Directors of Pecan Grove Municipal Utility District is pleased to give you this report about our drinking water based on 2015 test results. The District is required by the Federal Safe Drinking Water Act to send the report each year. The content of this report is specified by the State of Texas.

Pecan Grove Superior Drinking Water

Pecan Grove MUD has maintained a **Superior** water rating from the TCEQ for over 10 years. This honor indicates that the district has met or exceeded all drinking water standards, capacity, and operational requirements. Additionally, the district participates in the EPA's Unregulated Contaminants Monitoring Rule. The purpose of this monitoring program is to provide information for future regulation of contaminants and to protect public health.

Please call the District's operator, Environmental Development Partners, EDP, at **281-238-5000** if you have any questions regarding this report.

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

En Español

Este reporte incluye informacion importante sobre el agua potable. Para asistencia en español, favor de llamar a Pecan Grove MUD al telefono 281-238-5000.

Public Participation Opportunities

The Board meets regularly each month typically at 5:30pm on the last Tuesday of the month. For information regarding the date, time and location of the meeting call **281-238-5000** or send your comments to:

Pecan Grove MUD
P.O. Box 1149
Richmond, Texas 77406-1149

Data contained in this report was collected in 2015 except where noted. The State of Texas allows us to monitor for some substances less than once per year because the concentration of these substances does not change frequently. Although the Water District samples your water for up to 97 substances we are listing only those substances that were detected in your water. For additional information about your water quality please contact our operator, EDP at **281-238-5000**.

Where do we get our drinking water?

Pecan Grove M.U.D. obtained its water from five groundwater wells that draw water from the Gulf Coast Aquifer and from surface water from the Brazos River. An aquifer is a porous underground formation (such as sand and gravel) that is saturated with water. The Texas Commission on Environmental Quality 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 detections of these contaminants may be found in this Consumer Confidence Report. Further details about sources and source-water assessments are available in the Drinking Water Watch at <http://dww2.tceq.texas.gov/DWWW/>. For more information on source water assessments and protection efforts at our system, please call our District operator's office at **281-238-5000** Monday through Friday, 8:00 AM to 4:00 PM.

All Drinking Water May Contain Contaminants

When drinking water meets federal standards there may not be any health based 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 at 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. For more information on taste, odor, or color of drinking water, please contact the District operator at **281-238-5000**.

Interconnected Water Supplies

While the water for Pecan Grove MUD is predominantly supplied by wells owned by the District, the District may receive water from an adjoining water district during emergency situations and maintenance periods. The adjoining District is Fort Bend Co. W.C & I.D. No.3. The water source for this district is from a ground water well drawing water from the same aquifer as Pecan Grove MUD. Water quality information for systems that have supplied water to Pecan Grove MUD is included in this report. For additional information about the water quality for this system, please call the District operator at **281-238-5000**.

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 persons 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 from 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 1-800-426-4791.

Water Sources

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 before treatment 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.

Protecting the Water You Drink

In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Federal Food and Drug Administration Agency regulations establish limits for contaminants in bottled water, which must provide the same protection for public health as public water systems.

Start Saving Water And Money Today.

- The single most effective conservation step that can be taken inside the home is to install water efficient showerheads. They provide great showers, yet use 30% to 70% less water.
- Use half as much water by installing water efficient aerators on the bathroom and kitchen sinks.
- Toilet water use can be cut by up to 70% by installing water efficient or air assisted commodes. If replacing your commode isn't an option, place a half gallon plastic jug of water in your tank and cut your water use by 20%.
- Laundry accounts for about 14% of home water use. Adjust the water level on your machine to match the size of your load.
- Repair leaks immediately! A dripping faucet can waste 2 gallons of water per hour.

The District first adopted a water conservation plan in April 2009. In the water loss audit submitted to the Texas Water Development Board for the time period of Jan-Dec 2015, our system lost an estimated 90,590,990 gallons of water. Overall, our system accounted for approximately 87% of the water produced during that period. If you have any questions about the water loss audit or would like any additional information on water conservation, information is available at the district's web site at www.pecangrovemud.com or please see us at the customer service office located at 2035 FM 359 Suite K or call us at 281-238-5000.

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Inorganic Contaminants							
Year	Contaminant (Units)	MCLG	MCL	Highest Level Detected	Range Min. / Max.	Violation	Typical Source
2015	Atrazine (ppb)	3	3	0.24	0 / 0.24	No	Runoff from herbicide used on row crops.
2015	Barium (ppm)	2	2	0.0906	0.0906 / 0.0906	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
2015	Fluoride (ppm)	4	4	0.14	0.14 / 0.14	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
2015	Nitrate(measured as nitrogen)(ppm)	10	10	1.14	0.92 / 1.14	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.

Radioactive Contaminants							
Year	Contaminant (Units)	MCLG	MCL	Highest Level Detected	Range Min. / Max.	Violation	Typical Source
2014	Beta/Photon Emitters (pCi/l)	0	50*	4.8	4.8 / 4.8	No	Decay of natural and man-made deposits. *EPA considers 50 pCi/L to be the level of concern for beta particles.
2012	Combined Radium 226/228 (pCi/l)	0	5	1.9	1.9 / 1.9	No	Erosion of natural deposits.

Maximum Residual Disinfectant Level (MRDL)							
Year	Disinfectant (Units)	MRDLG	MRDL	Annual Average	Range of Min. / Max.	Violation	Source of Contaminant
2015	Chloramine Residual (ppm)	4	4	1.93	0.01 / 3.6	No	Disinfection used to control microbes.
2015	Chlorine Dioxide (ppm)	0.8	0.8	0.08	0 / 0.76	No	Chlorine dioxide is a water additive used to control microbes and can be used to control tastes and odors. It rapidly disappears from stored water.

Lead & Copper							
Year	Contaminant (Units)	Action Level	90 th Percentile	Number of Samples Exceeding AL	Violation	Typical Source	
2015	Lead (ppm)	0.015	0.00641	0	No	Corrosion of household plumbing systems; erosion of natural deposits.	
2015	Copper (ppm)	1.3	0.225	1	No	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.	

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 the 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>.

Turbidity							
Year	Contaminant (Units)	Turbidity Limit	Highest Single Measurement	Lowest % of Samples Meeting Limit	Violation	Typical Source	
2015	Turbidity (NTU)	0.3	0.31	100%	No	Soil runoff.	

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

Regulated Contaminants							
Year	Contaminant (Units)	MCLG	MCL	Highest Level Detected	Range of Detections Min. / Max.	Violation	Source of Contaminant
2015	Chlorite (ppm)	0.8	1	0.49	0 / 0.49	No	By-product of drinking water disinfection.
2015	Haloacetic Acids (HAA5)(ppb)	0	60	14.6	1.8 / 14.6	No	By-product of drinking water chlorination.
2015	Total Trihalomethanes (TTHM) (ppb)	0	80	12.3	1.1 / 12.3	No	By-product of drinking water chlorination.

Definitions and Abbreviations

AL	Action Level: The concentration of contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow.	Definitions The following tables contain scientific terms and measures, some of which may require explanation. ppm <u>parts per million</u> : milligrams per liter or parts per million – or one ounce in 7,350 gallons of water ppb <u>parts per billion</u> : micrograms per liter or parts per million – or one ounce in 7,350,000 gallons of water NTU Nephelometric Turbidity Units na not applicable 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 liters ppq parts per quadrillion, or picograms per liter
ALG	Action Level Goal: 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	
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 contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.	
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. MRDLG's do not reflect the benefits of the use of disinfectants to control microbial contaminants.	
Avg	Average: Regulatory compliance with some MCLs is based on running average of monthly samples.	