

Smithwick Mills Water System

PWS ID: TX0270045



Annual Water Quality Report 2018

Message from Darrin Baker, President

Dear Corix Utilities Texas Customers,

I am pleased to share your Annual Water Quality Report for 2018. This report is designed to inform you of the quality of water we delivered to you over the past year. As your community water utility, we fully appreciate our role in the local community. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources.

Our team is committed to providing safe, reliable and cost effective service to our customers. All of our employees share in our commitment to act with integrity, protect the environment, and enhance the local community.

We are proud to share this report which is based on water quality testing through December 2018. We continually strive to supply water that meets or exceeds all federal and state water quality regulations.

Our dedicated local team of water quality experts is working in the community everyday ensuring that you, our customer, are our top priority and that we are providing the highest quality service - now and in the years to come.

Best regards,

We are pleased to report that our drinking water meets all federal and state requirements.

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al teléfono (877) 718-4396.

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Source of Drinking Water

The Smithwick Mills Water System gets its water from Lake Travis. The lake collects and stores rainfall that runs off the surrounding land. Water is pumped to a treatment plant, where alum and polymers are added to remove any remaining particles. The water is then disinfected through a chloramine process to ensure the water is microbiologically safe (free from bacteria, viruses, and protozoan parasites).

It is important to note that all drinking water contains some naturally occurring contaminants that are not harmful to our health. In fact, some minerals provide low levels of nutritional value and actually improve the taste of drinking water. After the drinking water has been thoroughly treated at the water treatment facility, we deliver it to homes and businesses through an underground network of pipes.

Individual homes use service lines to tap into larger, underground water main lines. The water is then passed through a water meter so that the amount of water the household uses can be accurately calculated. The water then flows throughout the home so whenever you turn on your faucet for a drink, you are assured clean, safe water for your entire family.

Source Water Assessment (SWA)

The State of Texas has completed a Source Water Assessment for your drinking water source as required by the U.S. Environmental Protection Agency. This assessment identifies potential contaminant sources and will help in the development of source water protection efforts. Additional information about SWA can be found at www.epa.gov/sourcewaterprotection.

Help Protect our Resources

Help put a stop to the more than **1 trillion gallons of water lost annually** nationwide due to household leaks. These easy to fix leaks waste the average family the amount of water used to fill a backyard swimming pool each year. Plumbing leaks can run up your family's water bill an extra 10 percent or more, but chasing down these water and money wasting culprits is as easy as 1—2—3. Simply check, twist, and replace your way to fewer leaks and more water savings:

⇒ **Check** for silent leaks in the toilet with a few drops of food coloring in the tank, and check your sprinkler system for winter damage.

⇒ **Twist** faucet valves; tighten pipe connections; and secure your hose to the spigot. For additional savings, twist a WaterSense labeled aerator onto each bathroom faucet to save water without noticing a difference in flow. They can save a household more than 500 gallons each year—equivalent to the amount water used to shower 180 times!

⇒ **Replace** old plumbing fixtures and irrigation controllers that are wasting water with WaterSense labeled models that are independently certified to use 20 percent less water and perform well.

For more information visit www.epa.gov/watersense.

EPA Wants You To Know

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:

- A. **Microbial contaminants**, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- B. **Inorganic contaminants**, such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- C. **Pesticides and herbicides**, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- D. **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 stormwater runoff, and septic systems.
- E. **Radioactive contaminants**, which can be naturally occurring or be the result of oil and gas production and mining activities.

What measures are in place to ensure water is safe to drink?

In order to ensure that tap water is safe to drink, the EPA prescribes regulations, which limit the amount of certain contaminants in water provided by public water systems. 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.

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 (800) 426-4791.

Special notice from EPA for the elderly, infants, cancer patients and people with HIV/AIDS or other immune system problems

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 (800) 426-4791.

Information Concerning Lead in Water

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. Corix Utilities (Texas) 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>.

Water that remains stationary within your home plumbing for extended periods of time can leach lead out of pipes joined with lead-containing solder as well as brass fixtures or galvanized pipes. Flushing fixtures has been found to be an effective means of reducing lead levels. The flushing process could take from 30 seconds to 2 minutes or longer until it becomes cold or reaches a steady temperature. Faucets, fittings, and valves, including those advertised as "lead-free," may contribute lead to drinking water. Consumers should be aware of this when choosing fixtures and take appropriate precautions. Visit the NSF Web site at www.nsf.org to learn more about lead-containing plumbing fixtures.

Drain Disposal Information

Sewer overflows and backups can cause health hazards, damage home interiors, and threaten the environment. A common cause is sewer pipes blocked by grease, which gets into the sewer from household drains. Grease sticks to the insides of pipes. Over time, the grease can build up and block the entire pipe. Help solve the grease problem by keeping this material out of the sewer system in the first place:

- Never pour grease down sink drains or into toilets. Scrape grease into a can or trash.
- Put strainers in sink drains to catch food scraps / solids for disposal.

Prescription Medication and Hazardous Waste

Household products such as paints, cleaners, oils, and pesticides, are considered to be household hazardous waste. Prescription and over-the-counter drugs poured down the sink or flushed down the toilet can pass through the wastewater treatment system and enter rivers and lakes (or leach into the ground and seep into groundwater in a septic system). Follow the directions for proper disposal procedures. **Do not flush hazardous waste or prescription and over-the-counter drugs down the toilet or drain.** They may flow downstream to serve as sources for community drinking water supplies. Many communities offer a variety of options for conveniently and safely managing these items. For more information, visit the EPA website at: www.epa.gov/hw/household-hazardous-waste-hhw.

The Safe Drinking Water Act was passed in 1974 due to congressional concerns about organic chemical contaminants in drinking water and the inefficient manner by which states supervised and monitored drinking water supplies. Congress' aim was to assure that all citizens served by public water systems would be provided high quality water. As a result, the EPA set enforceable standards for health-related drinking water contaminants. The Act also established programs to protect underground sources of drinking water from contamination.

Understanding This Report In order to help you understand this report, we want you to understand a few terms and abbreviations that are contained in it.

Action level (AL)	The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that 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.
EPA	Environmental Protection Agency.
Grains per gallon (gpg)	Unit of measure for water hardness, typically used by dishwasher and washing machine manufacturers.
Maximum contaminant level (MCL)	The highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLG's as feasible using the best available treatment technology.
Maximum contaminant level goal (MCLG)	The "goal" is the level of a contaminant in drinking water below which there is no known or expected health risk. MCLG's 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 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.
mrem/year - millirems per year	A measure of radiation absorbed by the body. (4 mrem/year is approximately 50 pCi/L).
Not Applicable (N/A)	Information not applicable/ not required for that particular water system or for that particular Rule.
Not Detected (ND)	Laboratory analysis indicates that the constituent is not present.
Parts per million (ppm) or milligrams per liter (mg/l)	One part per million corresponds to one minute in two years or a single penny in \$10,000.
Parts per billion (ppb) or micrograms per liter (ug/l)	One part per billion corresponds to one minute in 2,000 years or a single penny in \$10,000,000.
Picocuries per liter (pCi/L)	A measure of radioactivity in the water.
Locational Running Annual Average (LRAA)	The average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters.
Running Annual Average (RAA)	Calculated running annual average of all contaminant levels detected.
Nephelometric Turbidity Units (NTU)	A measure of water clarity. Turbidity in excess of 5 NTU is just noticeable to the average person.
Treatment Technique (TT)	A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.

Water Loss

During the water audit performed for calendar year 2015 it was determined that Smithwick Mills Water System had a water loss of 1,567,448 gallons. Corix Utilities (Texas) continues to work to reduce water loss.

Did You Know?

- ◆ The average family of four uses 255 gallons of water a day, 1,785 gallons a week, and 7,650 gallons per month.
- ◆ A single toilet flush uses approximately 5-7 gallons of water.
- ◆ Taking a shower will use approximately 5-10 gallons per minute. A 15-minute shower will use 75-150 gallons.
- ◆ Your kitchen or bathroom sink uses approximately 4-5 gallons a minute.
- ◆ One dishwasher load uses approximately 4-5 gallons a minute.

Monitoring Your Water

We routinely monitor for contaminants in your drinking water according to Federal and State laws. The following table(s) lists all the drinking water contaminants that were detected in the last round of sampling for the particular contaminant group. The presence of contaminants **does not** necessarily indicate that water poses a health risk. **Unless otherwise noted, the data presented in the table is from testing done January 1 through December 31, 2018.** The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, maybe more than one year old.

MCLs are set at very stringent levels. To understand the possible health effects described for many regulated contaminants, a person would have to drink 2 liters of water every day at the MCL

level for a lifetime to have a one-in-a-million chance of having the described health effect.

If You Have Questions Or Want To Get Involved

Because Corix Utilities (Texas) is privately owned, there are no scheduled board meetings. This report is available to individual customers. For questions about the quality of our drinking water, or to obtain a copy of this report, please visit us online at www.corixtexas.com or contact Ms. Gloria Broussard at (877)718-4396.

Violations

The Smithwick Mills Water System failed to meet the minimum treatment technique requirements for the month of October 2018. Specifically, our water system allowed the turbidity of the filtered water to exceed 0.3 Nephelometric Turbidity Units in more than 5.0 percent of the measurements made during the month. During this time the Highland Lakes were experiencing record breaking turbidity due to flooding. This impacted our treatment processes and we worked to keep the turbidity as low as possible. The filtered water exceeded 0.3 Nephelometric Turbidity Units in more than 5.0% of our samples, to be more precise, we exceeded the turbidity in 5.8% of our samples. During this period of higher than normal turbidity we issued a precautionary boil water notice to protect the health of our customers. Since this event, the Smithwick Mills Water System has been in compliance with all TCEQ regulations and no further actions are required. 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, cramps, diarrhea, and associated headaches.

Water Quality Test Results

Contaminant and Unit of Measurement	Dates of sampling	Violation	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Inorganic Contaminants							
Barium (ppm)	05/17/18	N	0.0774	0.0774 - 0.0774	2	2	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Nitrate (ppm)	05/17/18	N	0.07	0.07 - 0.07	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Fluoride (ppm)	05/17/18	N	0.18	0.18 - 0.18	4	4	Erosion of natural deposits; water additive which promotes strong teeth.
Sodium (ppm)	05/17/18	N	21.6	21.6 - 21.6	N/A	N/A	Salt water intrusion, leaching from soil

Stage 2 Disinfectants and Disinfection By-Products

Chloramines (ppm)	01/18 - 12/18	N	2.4	0.51 - 5.5	MRDL G=4	MRDL= 4.0	Water additive used to control microbes
Haloacetic Acids (HAA5) (ppb)	05/17/18	N	17.6	17.6 - 17.6	N/A	60	By-product of drinking water disinfection
Total Trihalomethanes (TTHM) (ppb)	05/17/18	N	27.3	27.3 - 27.3	N/A	80	By-product of drinking water disinfection
Chloroform (ppb)	09/17/18	N	19	19 - 19	N/A	N/A	Unregulated Contaminant
Bromodichloromethane (ppb)	09/17/18	N	14	14 - 14	N/A	N/A	Unregulated Contaminant
Dibromochloromethane (ppb)	09/17/18	N	5.4	5.4 - 5.4	N/A	N/A	Unregulated Contaminant
Bromoform (ppb)	09/17/18	N	2.3	2.3 - 2.3	N/A	N/A	Unregulated Contaminant

For radioactive contaminants, inorganic contaminants, synthetic organic contaminants, and volatile organic contaminants the level detected is the highest average at any of the sampling points or the highest detected level at any sampling point, depending on the sampling frequency. For Chloramines, the level detected is the average of all samples collected. For HAA5 and TTHM, the level detected is the highest locational running annual average (LRAA).

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

Some people who use water containing chloramines well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chloramines well in excess of the maximum residual disinfectant level (MRDL) could experience stomach discomfort or anemia.

Lead and Copper Contaminants

Contaminant and Unit of Measurement	Date of sampling	Violation	90th Percentile	Number of Sites Exceeding AL	MCLG	AL	Likely Source of Contamination
Lead (ppb)	2017	N	2.7	0	0	15	Corrosion of household plumbing systems; Erosion of natural deposits.
Copper (ppm)	2017	N	0.071	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

2018 Coliform Bacteria

Parameter	Number of Positive Samples	Highest Monthly Number of Positive Samples	MCLG	Source of Contaminant
Total Coliform	0	0	0	Naturally present in the environment
Escherichia Coli (E. Coli)	0	0	0	Human and animal fecal waste

Finished Water Turbidity 2018

	Level Detected	Limit (Treatment Technique)	Violation	Source of Contaminant
Highest Single Measurement	0.56 NTU	1 NTU	N	Soil Runoff
Lowest Monthly % Meeting Limit	94.2%	0.3 NTU	Y	Soil Runoff—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, cramps, diarrhea, and associated headaches.

Other Water Quality Information

Hardness: Customers of the Smithwick Mills Water System have hard water. The water hardness is 174 ppm or 10.2 grains per gallon.

