

# 2017 Annual Drinking Water Quality Report

(Consumer Confidence Report)

## OAK SHORES WATER SYSTEM

Phone No. (512) 246-1400

*Special Notice for the ELDERLY, INFANTS, CANCER PATIENTS, people with HIV/AIDS or other immune problems:*

Some people may be more vulnerable to certain microbial contaminants, such as Cryptosporidium, in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. The EPA/Centers for Disease Control and Prevention (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

### **Public Participation Opportunities**

The water system does not consist of a Board of Directors and does not hold regularly scheduled meetings. However, if you wish to contact the water system owner, please call (512) 246-1400.

The water system is operated by Crossroads Utility Services, LLC. If you have any questions concerning water quality or the source of your water, please call (512) 246-1400 or (512) 246-5905.

### **Our Drinking Water Meets or Exceeds All Federal (EPA) Drinking Water Requirements**

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.

**WATER SOURCES:** 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 before treatment include: microbes, inorganic contaminants, pesticides, herbicides, radioactive contaminants, and organic chemical contaminants.

### ***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. (512) 246-1400 para hablar con una persona bilingüe en español.

## Where do we get our drinking water?

Our drinking water is obtained from surface water sources. It comes from Lake Austin. TCEQ completed an assessment of our source water and results indicate that some of our sources are susceptible to certain contaminants. The sampling requirements for our water system are based on this susceptibility and previous sample data. Any detection of these contaminants will be found in this report. If we receive or purchase water from another system, their susceptibility is not included in this assessment. 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 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 (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.

## About the Following Pages

The pages that follow list all of the federally regulated or monitored contaminants which have been found in your drinking water. The U.S. EPA requires water systems to test for up to 97 contaminants.

### **DEFINITIONS**

#### **Maximum Contaminant Level (MCL)**

The highest permissible level of a contaminant in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

#### **Maximum Contaminant Level Goal (MCLG)**

The level of a contaminant in drinking water below which there is no known or expected health risk. MCLGs allow for a margin of safety.

#### **Maximum Residual Disinfectant Level (MRDL)**

The highest level of 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 contamination.

#### **Treatment Technique (TT)**

A required process intended to reduce the level of a contaminant in drinking water.

#### **Action Level (AL)**

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

### **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 (µg/L)

ppt – parts per trillion, or nanograms per liter

ppq – parts per quadrillion, or picograms per liter

**Inorganic Contaminants**

Year	Contaminant	Average Level	Minimum Level	Maximum Level	MCL	MCLG	Source of Contaminant
2017	Arsenic (ppm)	0.0024	0.0024	0.0024	0.01	0.01	Naturally occurring element in minerals and metals. Poisonous to multicellular life.
2013	Asbestos (MFL)	<0.1987	<0.1987	<0.1987	7	7	Decay of asbestos cement in water mains; erosion of natural deposits.
2017	Barium (ppm)	0.0549	0.0549	0.0549	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
2017	Cyanide (ppm)	0.06	0.06	0.06	0.1	0.1	Discharge from steel/metal factories; discharge from plastic and fertilizer factories.
2017	Fluoride (ppm)	0.82	0.82	0.82	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
2017	Nickel (ppm)	0.0014	0.0014	0.0014	0.2	0.2	Abundant naturally occurring element.
2016	Nitrate* (ppm)	0.03	0.03	0.03	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
2013	Nitrite* (ppm)	<0.05	<0.05	<0.05	1	1	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
2017	Selenium (ppm)	<0.003	<0.003	<0.003	0.05	0.05	Naturally occurring trace mineral. Promotes good health in small amounts, but can be toxic.

\*Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. If you are caring for an infant you should ask advice from your health care provider

**Organic Contaminants**

Year	Contaminant	Average Level	Minimum Level	Maximum Level	MCL	MCLG	Source of Contaminant
2017	Simazine (ppb)	<0.07	<0.07	<0.07	4.0	4.0	Herbicide runoff
2017	Toxaphene (ppb)	<1	<1	<1	3.0	3.0	Insecticide runoff.

**Volatile Organic Contaminants**

Year	Contaminant	Average Level	Minimum Level	Maximum Level	MCL	MCLG	Source of Contaminant
2017	Benzene (ppb)	<0.5	<0.5	<0.5	5.0	5.0	Petrochemical runoff
2017	Vinyl Chloride (ppb)	<0.5	<0.5	<0.5	2	2	Leaching from PVC piping; Discharge of plastic factories

**Maximum Residual Disinfectant Level**

Year	Disinfectant	Average Level	Minimum Level	Maximum Level	MRDL	MRDLG	Source of Disinfectant
2017	Chloramines (ppm)	2.1	1.3	2.9	4.0	<4.0	Disinfectant used to control microbes

**Disinfection Byproducts**

Year	Contaminant	LRA Average	Minimum Level	Maximum Level	MCL	Unit of Measure	Source of Contaminant
2017	Total Haloacetic Acids	20	8.1	23.5	60	ppb	Byproduct of drinking water disinfection.
2017	Total Trihalomethanes	64	6.8	81.1	80	ppb	Byproduct of drinking water disinfection.

**Unregulated Contaminants**

Bromoform, chloroform, bromodichloromethane, and dibromochloromethane are disinfection byproducts. There is no maximum contaminant level for these chemicals at the entry point to distribution.							
Year	Contaminant	Average Level	Minimum Level	Maximum Level		Unit of Measure	Source of Contaminant
2017	Chloroform	11.3	2.5	26.6		ppb	Byproduct of drinking water disinfection.
2017	Bromoform	17.3	<1	32.3		ppb	Byproduct of drinking water disinfection.
2017	Bromodichloromethane	14.4	2.7	26		ppb	Byproduct of drinking water disinfection.
2017	Dibromochloromethane	19.03	1.6	30.1		ppb	Byproduct of drinking water disinfection.

**Lead and Copper**

Year	Contaminant	The 90 <sup>th</sup> Percentile	Number of Sites Exceeding Action Level	Action Level	Unit of Measure	Source of Contaminant
2016	Lead	2.4	0	15	ppb	Corrosion of household plumbing systems; erosion of natural deposits.
2017	Copper	0.76	2	1.3	ppm	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 service lines and home plumbing. This water supply is responsible for providing high quality drinking water, but cannot control the variety of material used 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**

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.						
Year	Contaminant	Highest Single Measurement	Lowest Monthly % of Samples Meeting Limits	Turbidity Limits	Source of Contaminant	
2016	Turbidity (NTU)	0.14	100.0	0.3	Soil runoff.	

**Total Organic Carbon**

Total organic carbon (TOC) has no health effects. The disinfectant can combine with TOC to form disinfection byproducts. 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 Measure	Source of Contaminant
2016	Source Water	6.6	3.78	7.89	ppm	Naturally present in the environment
2016	Drinking Water	4.3	2.39	5.82	ppm	Naturally present in the environment

**Total Coliform** REPORTED MONTHLY TESTS FOUND NO TOTAL COLIFORM BACTERIA

**Fecal Coliform** REPORTED MONTHLY TESTS FOUND NO FECAL COLIFORM BACTERIA

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

Year	Contaminant	Average Level	Minimum Level	Maximum Level	Limit	Source of Contaminant
2017	Aluminum (ppm)	0.143	0.143	0.143	0.2	Abundant naturally occurring element.
2017	Bicarbonate (ppm)	245	245	245	NA	Corrosion of carbonate rocks such as limestone.
2017	Calcium (ppm)	40.2	40.2	40.2	NA	Abundant naturally occurring element.
2017	Chloride (ppm)	126	126	126	300	Abundant naturally occurring element; used in water purification; byproduct of oil field activity.
2017	Iron (ppm)	0.115	0.115	0.115	0.3	Abundant naturally occurring element.
2017	Magnesium (ppm)	16.9	16.9	16.9	NA	Abundant naturally occurring element.
2017	Manganese (ppm)	0.0376	0.0376	0.0376	0.05	Abundant naturally occurring element.
2017	Sodium (ppm)	115	115	115	NA	Erosion of natural deposits; byproduct of oil field activity.
2017	Sulfate (ppm)	27	27	27	300	Naturally occurring; common industrial byproduct; byproduct of oil field activity.
2017	Total Alkalinity as CaCO3 (ppm)	166	166	166	NA	Naturally occurring soluble mineral salts.
2017	Total Hardness, CaCO3 (ppm)	170	170	170	NA	Naturally occurring calcium.

**P.W.S. #2270060**