

Scioto Water, Inc. Drinking Water Consumer Confidence Report For 2016 For All Scioto Water, Inc. West Side and Independent Systems

Introduction

Scioto Water, Inc. has prepared the following report to provide information to you, the consumer, on the quality of our drinking water. This report is required as part of the Safe Drinking Water Act Reauthorization of 1996 and is required to be delivered to the consumers by July 1, 2017. Included within this report are general health information, water quality test results, how to participate in decisions concerning your drinking water and water system contacts. This report covers the quality of the water produced at the Treatment Plant for the City of Portsmouth.

Source Of Water Information

Some of the Public Water Systems owned and operated by Scioto Water, Inc., are supplied from water purchased at several various delivery points from the City of Portsmouth. The City of Portsmouth operates a surface water treatment plant that obtains its water from the Ohio River and is located at 4862 Gallia Street in New Boston, Ohio. To obtain a Consumer Confidence Report from the City of Portsmouth Water Plant please call 740-354-7515.

What Are Sources Of Contamination To 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.

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 storm water 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 storm water 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 storm water runoff, and septic systems; (E) 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.

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 Environmental Protection Agency's Safe Drinking Water Hotline (1-800-426-4791).

Who Needs To Take Special Precautions?

Some people may be more vulnerable to contaminants 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 infection. These people should seek advice about drinking water from their health care providers. EPA/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).

About Your Drinking Water

The EPA requires regular sampling to ensure drinking water safety. The City of Portsmouth and Scioto Water, Inc., constantly monitor and sample the water before, during, and after the water is processed to insure water quality. Along with those listed below, we have conducted sampling and tested for bacteria; inorganic; radiological; synthetic organic; and volatile organic contaminants. The Ohio EPA requires us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though accurate, are more than one year old.

Listed below in the following tables is information on those contaminants that were found in Scioto Water, Inc's "West Side" systems for drinking water purchased from the City of Portsmouth.

Portsmouth Public Water System - PWS OH7300111

Table of Detected Contaminants for all systems listed, and also including; Feurt Hill, Heuter Hollow, Pleasant Avenue, Rabbit Run and Moore's Lane

Contaminants (units)	MCLG	MCL	Level Found	Range of Detection	Violation	Year Sampled	Typical Source of Contamination
Chlorine (ppm)	MRDLG=4	MRDL=4	0.66	0.55-0.81	No	2016	Water Additive to Control Microbes
Barium (ppm)	2	2	0.037	NA	No	2016	Discharge of Drilling Wastes; Discharge From Metal Refineries; Erosion of Natural Deposits.
Nitrate (ppm)	10	10	1.10	0.50-1.10	No	2016	Runoff From Fertilizer Use; Erosion of Natural Deposits
Fluoride (ppm)	4	4	1.27	0.80-1.27	No	2016	Water Additive Which Promotes Strong Teeth; Erosion of Natural Deposits
Synthetic Organic Contaminates Including Pesticides & Herbicides	MCLG	MCL	Level Found	Range of Detection	Violation	Year Sampled	Likely Source of Contamination
Atrazine (ppb)	3	3	0.58	0.0-0.58	No	2015	Runoff From Herbicides Used On Row Crops
Treatment Technique							
Turbidity (NTU)	N/A	TT	0.17	0.03-0.17	No	2016	Soil Runoff
Turbidity (% of Samples Meeting Standards)	N/A	TT	100.00%	N/A	No	2016	Soil Runoff
Total Organic Carbon	N/A	TT	1.35	1.00-2.56	No	2016	Naturally Present in the Environment

Unregulated Contaminants (ppb)		Molybdenum	Strontium	Vanadium	Hexavalent Chromium	Chlorate	1,4 Dioxane
Plant Tap	Range	<1.0-1.1	172-218	<0.2-0.21	0.069-0.076	46.2-111	0.17-0.32
	Average	0.55	195	0.105	0.073	78.6	0.245
Distribution System	Range		174-220		0.068-0.069	45.7-105	
	Average		197		0.0685	75.35	

Unregulated Contaminants Language

Contaminants 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.

TOC Language

“The value reported under “Level Found” for Total Organic Carbon (TOC) is the lowest ratio between the percentages of TOC actually removed to the percentage of TOC required to be removed. A value of greater than one (1) indicates that the water system is in compliance with TOC removal requirements. A value of less than one (1) indicates a violation of the TOC removal requirements.”

Turbidity Language

“Turbidity is a measure of the cloudiness of water and is an indication of the effectiveness of our filtration system. The turbidity limit is set by the EPA is 0.3 in 95% of the daily samples and shall not exceed 1 NTU at anytime. As reported above, the City of Portsmouth’s highest recorded turbidity result for 2016 was 0.17 NTU and lowest monthly percentage of samples meeting the turbidity limits was 100.00%.”

Lead Educational Information

“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. Scioto Water, Inc. 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 at <http://epa.gov/safewater/lead>.”

LTO Language

“All water systems in this report have a unconditioned license to operate.”

Source Water Information

High Susceptibility PWS Based on Surface Water System

The source water (Ohio River) that supplies water to Scioto Water, Inc. - has a high susceptibility to contamination. This is based on the following: **Surface waters are by their nature susceptible to contamination.**

This susceptibility means that under currently existing conditions, the likelihood of the source water supply becoming contaminated is relatively high. This likelihood can be minimized by implementing appropriate protective measures. More information about the source water assessment or what consumers can do to help protect the source water supply is available by calling Sam Sutherland, Utilities Director, at (740) 456-4946.

TTHM Health Information (for systems that have greater than 80 ppb)

“Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.”

How do I participate in decisions concerning my drinking water?

Public participation and comment are encouraged at regular monthly meetings of the Board of Trustees which meets the Third (3rd) Thursday of every month at 4:30pm at the main office at 4707 Gallia Pike Franklin Furnace, Ohio, and at the Annual Meeting of Members held the Third (3rd) Thursday of March at 7:30pm, also at the main office in Franklin Furnace.

For more information on your drinking water contact Jeff Spradlin, General Manager, at 740-354-9140, or Joe Mundhenk, Treatment Plant Superintendent, at 740-259-6365.

Definitions of some terms contained within this report.

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

Below Detectable Limits (BDL): Contaminant not detected using the standards approved by E.P.A.

Maximum Contaminant Level Goal (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 Contaminant level (MCL): The highest level of contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Parts per Million (ppm) or Milligrams per Liter (mg/L) are units of measure for concentration of a contaminant. A part per million corresponds to one second in a little over 11.5 days.

Parts per Billion (ppb) or Micrograms per Liter (µg/L) are units of measure for concentration of a contaminant. A part per billion corresponds to one second in 31.7 years.

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.

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

NA: Not Applicable ND: Non Detectable

Tables 2 and 3 contain the information on those contaminates that were found for each of Scioto Water, Inc.’s systems West of the Scioto River for drinking water purchased from the City of Portsmouth.

TABLE OF DETECTED CONTAMINATES (Table 2)

SYSTEM NAME	PWS #	CONTAMINATE (units)	MCL G	MCL	90th Percentile	# Over AL	VIOLATION	YEAR SAMPLED	TYPICAL SOURCE OF CONTAMINATION
Stoney Run	7300803	LEAD* (ppb)	0.0	Action Limit = 15	0	0	No	2015	Corrosion of Household Plumbing; Erosion of Natural Deposits
		COPPER** (ppm)	1.3	Action Limit = 1.3	0.05	0	No	2015	Corrosion of Household Plumbing; Erosion of Natural Deposits; Leaching From Wood Preservatives
St. Rt. 125	7301203	LEAD* (ppb)	0.0	Action Limit = 15	0	0	No	2015	Corrosion of Household Plumbing; Erosion of Natural Deposits
		COPPER** (ppm)	1.3	Action Limit = 1.3	0	0	No	2015	Corrosion of Household Plumbing; Erosion of Natural Deposits; Leaching From Wood Preservatives
Pond Run	7301303	LEAD* (ppb)	0.0	Action Limit = 15	0	0	No	2015	Corrosion of Household Plumbing; Erosion of Natural Deposits
		COPPER** (ppm)	1.3	Action Limit = 1.3	0	0	No	2015	Corrosion of Household Plumbing; Erosion of Natural Deposits; Leaching From Wood Preservatives
Ziegler Lane	7301503	LEAD* (ppb)	0.0	Action Limit = 15	0	0	No	2015	Corrosion of Household Plumbing; Erosion of Natural Deposits
		COPPER** (ppm)	1.3	Action Limit = 1.3	0.06	0	No	2015	Corrosion of Household Plumbing; Erosion of Natural Deposits; Leaching From Wood Preservatives
Slab Run	7301603	LEAD* (ppb)	0.0	Action Limit = 15	0	0	No	2015	Corrosion of Household Plumbing; Erosion of Natural Deposits
		COPPER** (ppm)	1.3	Action Limit = 1.3	0.08	0	No	2015	Corrosion of Household Plumbing; Erosion of Natural Deposits; Leaching From Wood Preservatives
Careys Run	7301703	LEAD* (ppb)	0.0	Action Limit = 15	0	0	No	2015	Corrosion of Household Plumbing; Erosion of Natural Deposits
		COPPER** (ppm)	1.3	Action Limit = 1.3	0	0	No	2015	Corrosion of Household Plumbing; Erosion of Natural Deposits; Leaching From Wood Preservatives
Hygean Run	7301903	LEAD* (ppb)	0.0	Action Limit = 15	0	0	No	2015	Corrosion of Household Plumbing; Erosion of Natural Deposits
		COPPER** (ppm)	1.3	Action Limit = 1.3	0	0	No	2015	Corrosion of Household Plumbing; Erosion of Natural Deposits; Leaching From Wood Preservatives
Naces Run	7302103	LEAD* (ppb)	0.0	Action Limit = 15	0	0	No	2015	Corrosion of Household Plumbing; Erosion of Natural Deposits
		COPPER** (ppm)	1.3	Action Limit = 1.3	0	0	No	2015	Corrosion of Household Plumbing; Erosion of Natural Deposits; Leaching From Wood Preservatives
Oakwood	7302203	LEAD* (ppb)	0.0	Action Limit = 15	0	0	No	2016	Corrosion of Household Plumbing; Erosion of Natural Deposits
		COPPER** (ppm)	1.3	Action Limit = 1.3	0	0	No	2016	Corrosion of Household Plumbing; Erosion of Natural Deposits; Leaching From Wood Preservatives

* ZERO SAMPLES WAS FOUND TO HAVE LEAD LEVELS IN EXCESS OF THE ACTION LIMIT OF 15 ppb

** ZERO SAMPLES WAS FOUND TO HAVE COPPER LEVELS IN EXCESS OF THE ACTION LIMIT OF 1.3 ppm

DISINFECTION & DISINFECTION BYPRODUCTS (Table 3.)

SYSTEM NAME	PWS #	CONTAMINATES (units)	MCLG	MCL	LEVEL FOUND	RANGE OF DETECTION	VIOLATION	YEAR SAMPLED	TYPICAL SOURCE OF CONTAMINATION
Stoney Run	7300803	Total Trihalomethanes (ppb)	N/A	80	60.7	22.0-89.6	No	2016	By-Products of Drinking Water Chlorination
		Five Haloacetic Acids (ppb)	N/A	60	17.9	7.5-37.4	No	2016	By-Products of Drinking Water Chlorination
St. Rt. 125	7301203	Total Trihalomethanes (ppb)	N/A	80	53.5	41.8-76.9	No	2016	By-Products of Drinking Water Chlorination
		Five Haloacetic Acids (ppb)	N/A	60	16.8	10.3-24.8	No	2016	By-Products of Drinking Water Chlorination
Pond Run	7301303	Total Trihalomethanes (ppb)	N/A	80	58.4	41.8-93.1	No	2016	By-Products of Drinking Water Chlorination
		Five Haloacetic Acids (ppb)	N/A	60	19.1	6.9-27.9	No	2016	By-Products of Drinking Water Chlorination
Ziegler Lane	7301503	Total Trihalomethanes (ppb)	N/A	80	57.8	21.5-83.6	No	2016	By-Products of Drinking Water Chlorination
		Five Haloacetic Acids (ppb)	N/A	60	17.4	11.4-30.9	No	2016	By-Products of Drinking Water Chlorination
Slab Run	7301603	Total Trihalomethanes (ppb)	N/A	80	54.6	21.5-81.3	No	2016	By-Products of Drinking Water Chlorination
		Five Haloacetic Acids (ppb)	N/A	60	14.7	9.6-19.7	No	2016	By-Products of Drinking Water Chlorination
Careys Run	7301703	Total Trihalomethanes (ppb)	N/A	80	55.7	21.7-80.7	No	2016	By-Products of Drinking Water Chlorination
		Five Haloacetic Acids (ppb)	N/A	60	14.8	9.6-22.2	No	2016	By-Products of Drinking Water Chlorination
Hygean Run	7301903	Total Trihalomethanes (ppb)	N/A	80	57.5	22.6-91.3	No	2016	By-Products of Drinking Water Chlorination
		Five Haloacetic Acids (ppb)	N/A	60	14.5	7.9-19.7	No	2016	By-Products of Drinking Water Chlorination
Naces Run	7302103	Total Trihalomethanes (ppb)	N/A	80	60.1	21.6-88.4	No	2016	By-Products of Drinking Water Chlorination
		Five Haloacetic Acids (ppb)	N/A	60	16.3	7.8-31.5	No	2016	By-Products of Drinking Water Chlorination
Oakwood	7302203	Total Trihalomethanes (ppb)	N/A	80	59.2	22.1-88.4	No	2016	By-Products of Drinking Water Chlorination
		Five Haloacetic Acids (ppb)	N/A	60	18.8	10.6-34.9	No	2016	By-Products of Drinking Water Chlorination