Definitions You Need To Know

Action Level - the concentration of a contaminant that, if exceeded, triggers treatment or other requirements a water system must follow. **Coliform Absent (ca)** - Laboratory analysis indicates that the contaminant is not present.

Disinfection byproducts (DBPs) – are formed when disinfectants used in water treatment plants react with bromide and/or natural organic matter (i.e., decaying vegetation) present in the source water. Different disinfectants produce different types or amounts of disinfection byproducts. Disinfection byproducts for which regulations have been established include trihalomethanes (TTHM), haloacetic acids (HAA5), bromate, and chlorite.

Initial Distribution System Evaluation (IDSE) - a one-time study conducted by water systems to identify distribution system locations with high concentrations of trihalomethanes (THMs) and haloacetic acids (HAAs). Water systems will use results from the IDSE, in conjunction with their Stage 1 DBPR compliance monitoring data, to select compliance monitoring locations for the Stage 2 DBPR.

Locational Running Annual Average (LRAA) - yearly average of all the DPB results at each specific sampling site in the distribution system. The highest distribution site LRAA is reported in the Table of Detected Contaminants.

Maximum Contaminant Level (MCL) – The "Maximum Allowed" is 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 (MCLG) – The "Goal" is the level of contaminant in drinking water below which there is no known or excepted risk of health. MCLGs allow for margin of safety.

Maximum Residual Disinfection Level (MRDL) - the highest level of a disinfectant allowed in drinking water.

Millirems per year (mrem/yr) – Million fibers per liter is a measure of presence of asbestos fibers that are longer than 10 micrometers. *Nephelometric Turbidity Unit (NTU)* – Nephelometric turbidity unit is a measure of the clarity of the water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Non-Detects (ND) – Laboratory analysis indicates that the constituent is not present above detection limits of lab equipment.

Not Reported (NR) - laboratory analysis, usually Secondary Contaminants, not reported by water system. EPA recommends secondary standards to water systems but does not require systems to comply.

Parts per billion (ppb) or Micrograms per liter – One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

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 quadrillion (ppq) or Picograms per liter – One part per quadrillion corresponds to one minute in 2,000,000,000 years, or a single penny in \$10,000,000,000.

Parts per trillion (ppt) or Nanograms per liter – One part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

Picocuries per liter (pCi/l) – Picocuries per liter is a measure of the radioactivity in water.

RAA - Running annual average

Standard Units (S.U.) - pH of water measures the water's balances of acids and bases and is affected by temperature and carbon dioxide gas. Water with less than 6.5 could be acidic, soft, and corrosive. A pH greater than 8.5 could indicate that the water is hard.

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

Variances & Exemptions (V&E) – State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

OUR DAILY Water

Oxford Water Works & Sewer Board

2018 Annual Water Quality Report (Testing Performed January - December 2017)





pre vood 1 ٦ al ٦ agricultu agricultu ŧ leaching from natural dep E 10 trial discharge Likely Source of Contamination of trial discha with ť deposits; sion leid ial natural ofindu ofindu oftre Ĕ factories Ĵ a result septic tanks, sult result Ę f ľ esult as a I degreasing sites & other CONTAMINANTS as as se rination Ę H P leaching from syste micr old plumbing water chlo chlo control 1 :esr in the ñ 5 Ë. Ē. den metal o Ξ. Ę .5 .= Runoff from fertilizer 1 past of drinki ğ natural of dri from WATER (Water additive ĕ duct Ъ Discharge Contaminant Contaminants ally ally ally lly ally ally ally II, ų, E Erosic ives Soil Soil Vatu By-Nat Zat Vat å DRINKING MRDL=4 ŵ MCL N/A N/A N/A N/A N/A N/A 200 E E ŝ 2 80 60 50 50 ŝ ЧΓ Unregulated Secondary MRDLG=4 MCLG N/A 0 ŝ 2 0 0 0 DETECTED Measurement Unit of ΔŢŪ PCi/l mqq Ppm mdc bpb bpb bpb qdd bpb qdd mqc bpm S.U. ppm mqc mqc mdc OF TABLE (WTP 13.4—30.3 Distribution ND-1.10 Level Detected WTP 6.24- 11.2 Distribution ND 2.5+/- 0.9 1.03 ND - 2.41 6.92 ND - 1.30 -67 64 3.59 (o > AL)0.140* 6.58 6.89 4.49 .20 127 124 0.25 -- ON - ON Violation (Yes/No) °2 °Z °Z Ň ů ů ů °N Ŷ ů ů ů ů ů ů ů ů Ŷ Carbon Contaminants HAA5 (Total Haloacetic Acids) Trichloroethylene **Frihalomethanes**) Nitroge Chloride Hardness **Fotal Dissolved** Sodium Total Organic (Sulfate Ê Alpha Em Ηd Chloi TTHM Nitrate (as Turb dibr 5 GH

 * Figure shown is 90th percentile and # of sites above action level (1.3 ppm) =

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2018 Annual Water Quality Report Testing Performed January through December 201

Oxford Water Works & Sewer Board

Oxford Water Works & Sewer Board is pleased to present to you this year's 2018 Annual Water Quality Report. This report is designed to inform you about the quality water and service we deliver to you on a daily basis, and our constant goal being to provide you with a safe and dependable supply of drinking water.

BANK DRAFT IS AVAILABLE FROM OXFORD WATER!

Saves you: Time - Postage - Checks

Contact our office at 256-831-5618 for more information.

THE OXFORD WATER & SEWER SYSTEM INCLUDES:

Water Mains in Service
Sewer Mains in Service138 miles
Water Storage Tanks5
Water Treatment Plant1
Water Storage Capacity5.4 Million Gallons
Water Production Capacity12.0 Million Gallons Per Day
Booster Pumping Stations8
Public Fire Hydrants968
Sewer Treatment Capacity4.5 Million Gallons Per Day
Sewer Pumping Stations37
Metered Connections10,021

WHERE DOES OUR WATER COME FROM?

Oxford's Water Supply is classified as Groundwater. Groundwater classification means the water is pumped from below the surface of the ground.

Drinking water is supplied to customers of Oxford Water by five production wells that draw water from The Knox Group, Shady Dolomite Aquifer. Each well is approximately 300 feet deep and the water from each well meets all regulations without any treatment required; however, we do add some chlorine to protect the water in tanks and distribution lines. The Oxford Quarry also provides water to the Oxford system and is filtered using membranes at the Leon Smith Water Treatment Plant.

Oxford Water Works & Sewer Board is a member of American Water Works Association (AWWA), Alabama Rural Water Association (ARWA), the National Rural Water Association (NRWA). Alabama's Water Environment Association (AWEA), and the Groundwater Foundation.

The Oxford Water Works routinely monitors for constituents in your drinking water. We had tests performed for over 90 constituents and only 18 were at detectable levels. All monitoring and testing were performed according to Federal and State Laws. This table shows the results of our monitoring for the period of January 1, 2017 to December 31, 2017 for Inorganics, Microbiologicals, Nitrates, Synthetic Organics, Volatile Organic Contaminants, and Disinfection By-Products. All of these were performed in accordance with the regulatory monitoring schedule

As you can see by the table, our system had NO violations. We were proud that your drinking water meets or exceeds all Federal and State requirements. We have learned through our monitoring and testing that some constituents have been detected. The EPA has determined that your water IS SAFE at these levels. MCL's are set at very stringent levels. To understand the possible health effects described for many regulated constituents, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-ina-million chance of having the described health effect.

Thank you for allowing us to continue providing your family with clean quality water this year. In order to maintain a safe and dependable water supply we sometimes need to make improvements that will benefit all of our customers. These improvements are sometimes reflected as rate structure adjustments. Thank you for your understanding. Please call our office if you have any questions.

Safe Drinking Water Act - What does this mean for you?

The Safe Drinking Water Act (SDWA) was signed into law on December 16, 1974. The purpose of the law is to assure that the nation's water supply systems serving the public meet the minimum national standards for the protection of public health.

The SDWA covers all public water systems with piped water for human consumption with at least 15 service connections or a system that regularly serves at least 25 individuals. The SDWA directed the U.S. Environmental Protection Agency (EPA) to establish national drinking water standards. These standards limit the amount of certain contaminants provided by public water. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water. All drinking water, including bottled water, may be reasonably expected to contain at least small amounts of some constituents. It's important to remember that the presence of these constituents does not necessarily pose 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. 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 microbiological contaminants are available from the Safe Drinking Water Hotline at 1-800-426-4791.

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 radioactive material, and it can pick up substances resulting from the presence of animals or from human activities.



Oxford Water Works & Sewer Board met or exceeded ALL Federal and State Standards for drinking water during the reporting period. Lead and Copper Compliance

The most recent testing for lead and copper compliance within the distribution system was in 2016. This testing was done in accordance with applicable regulations. No lead or copper samples exceeded the action level. 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. The Oxford Water Works and Sewer Board 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 other steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http:www/epa.gov/safewater/lead.

OUR DAILY WATER

If you have any questions about this report or concerning your water utility, please contact our main office. We want our valued customers to be informed about their water utility.

Monitoring Schedule

Constituent Monitored	Date Monitored
Inorganic Contaminants	2017
Lead/Copper	2016
Microbiological Contaminants	Current
Nitrates	2017
Radioactive Contaminants	2014
Synthetic Organic Contaminants (including pesticides & herbicides)	2017
Volatile Organic Contaminants	2017
Disinfection By-Products	2017

STANDARD LIST OF PRIMARY D	1				
Contaminant	MCL	Unit	Contaminant	MCL	Unit
Bacteriological Contaminants			trans-1,2-Dichloroethylene	100	ppb
Total Coliform Bacteria	<5%	present/absent	Dichloromethane	5	ppb
Fecal Coliform and E coli	0	present/absent	1,2-Dichloropropane	5	ppb
Fecal Indicators	0	present/absent	Di (2-ethylhexyl)adipate	400	ppb
Turbidity	Π	NTU	Di (2-ethylhexyl)phthalate	6	ppb
Cryptosporidium	Π	Calc.organisms/I	Dinoseb	7	ppb
Radiological Contaminants			Dioxin [2,3,7,8-TCDD]	30	ppq
Beta/photon emitters	4	mrem/yr	Diquat	20	ppb
Alpha emitters	15	pCi/l	Endothall	100	ppb
Combined radium	5	pCi/l	Endrin	2	ppb
Uranium	30	pCi/l	Epichlorohydrin	Π	Π
Inorganic Chemicals			Ethylbenzene	700	ppb
Antimony	6	ppb	Ethylene dibromide	50	ppt
Arsenic	10	ppb	Glyphosate	700	ppb
Asbestos	7	MFL	Heptachlor	400	ppt
Barium	2	ppm	Heptachlor epoxide	200	ppt
Beryllium	4	ppb	Hexachlorobenzene	1	ppb
Cadmium	5	ppb	Hexachlorocyclopentadiene	50	ppb
Chromium	100	ppb	Lindane	200	ppt
Copper	AL=1.3	ppm	Methoxychlor	40	ppb
Cyanide	200	ppb	Oxamyl [Vydate]	200	ppb
Fluoride	4	ppm	Polychlorinated biphenyls	0.5	ppb
Lead	AL=15	pph	Pentachlorophenol	1	ppb
Mercury	2	ppb	Picloram	500	ppb
Nitrate	10	ppm	Simazine	4	ppb
Nitrite	1		Styrene	4	
Selenium	0.05	ppm		5	ppb
Thallium	0.002	ppm ppm	Tetrachloroethylene Toluene	5	ppb ppm
	0.002	ppm			
Organic Contaminants	-		Toxaphene	3	ppb
2,4-D	70	ppb	2,4,5-TP(Silvex)	50	ppb
Acrylamide	Π	Π	1,2,4-Trichlorobenzene	0.07	ppm
Alachlor	2	ppb	1,1,1-Trichloroethane	200	ppb
Benzene	5	ppb	1,1,2-Trichloroethane	5	ppb
Benzo(a)pyrene [PAHs]	200	ppt	Trichloroethylene	5	ppb
Carbofuran	40	ppb	Vinyl Chloride	2	ppb
Carbon tetrachloride	5	ppb	Xylenes	10	ppm
Chlordane	2	ppb	Disinfectants & Disinfection	Byproduct	s
Chlorobenzene	100	ppb	Chlorine	4	ppm
Dalapon	200	ppb	Chlorine Dioxide	800	ppb
Dibromochloropropane	200	ppt	Chloramines	4	ppm
o-Dichlorobenzene	600	ppb	Bromate	10	ppb
p-Dichlorobenzene	75	ppb	Chlorite	1	ppm
1,2-Dichloroethane	5	ppb	HAA5 [Total haloacetic acids]	60	ppb
1,1-Dichloroethylene	7	ppb	TTHM [Total trihalomethanes]	80	ppb
cis-1,2-Dichloroethylene	70	ppb			
UNREGULATED CONTAMINANTS			•		
1,1 – Dichloropropene	Aldicarb		Chloroform	Metolachlor	
1,1,1,2-Tetrachloroethane	Aldicarb Sulfone		Chloromethane	Metribuzin	
1,1,2,2-Tetrachloroethane	Aldicarb Sulfoxide		Dibromochloromethane	N - Butylbenzene	
1,1-Dichloroethane	Aldrin		Dibromomethane	Naphthalene	
1,2,3 - Trichlorobenzene	Bromobenzene		Dicamba	N-Propylbenzene	
1,2,3 - Trichloropropane			Dichlorodifluoromethane	O-Chlorotolu	
1,2,4 - Trimethylbenzene	Bromochloromethane		Dieldrin	P-Chlorotoluene	
1,3 – Dichloropropane	Bromodichloromethane Bromoform		Hexachlorobutadiene	P-Chlorotoluene P-lsopropyltoluene	
1,3 – Dichloropropane	Bromom				
1,3,5 - Trimethylbenzene	Butachle		Isoprpylbenzene Propachlor		007020
			M-Dichlorobenzene Sec - Butylbenzene Methomyl Tert - Butylbenzene		
2,2 – Dichloropropane 3-Hydroxycarbofuran	Carbary			Tert - Butylbenzene Trichlorfluoromethane	
o-myuroxycarpoturan	Chloroel	nañe	MTBE	u richiorfluor	

ford Water Works & Sewer Board 600 Barry Street, Post Office Box 3663 Oxford, Alabama 36203 Phone: 256-831-5618 Fax: 256-831-9063 Main Office Hours: 7:00 a.m. to 4:30 p.m. Monday-Friday Water Board Meets 3rd Wednesday of each month at 12:00 p.m. General Manager.... ...Wayne Livingston Controller..... ..Patrick Prater ..Meredith Holzer Office Manager..... Amanda Moore

Engineer...