

2017

Drinking Water QUALITY REPORT



Introduction

We are pleased to bring you this year's Annual Drinking Water Quality Report. This report is designed to keep you informed about the quality of water and services we deliver to you every day. We are committed to the quality of your drinking water. Your drinking water has been and remains safe to drink with no monitoring violations in 2016. We have tried to assemble a report that paints a brief but accurate picture of the quality of water you get every day from your tap. If you have any questions regarding this report, feel free to contact us at (251)937-2430.

History

In 1974, the Safe Drinking Water Act (SDWA) was signed into law requiring all water systems that serve the public to meet national standards for water quality. These standards set the limits for certain contaminants and require all public water systems to monitor for these contaminants. NBU routinely test for these constituents in your drinking water according to Federal and State laws. The tables in this report show the monitoring results of the Calendar Year 2016 Sampling Schedule beginning Jan 1 through Dec 31 of 2016 unless otherwise noted.

Section 1 - Sources of Water

White House Water System (WHWS) currently purchases water from NBU. North Baldwin Utilities (NBU) obtains its drinking water through the use of ten public water supply wells. Each well produces groundwater from sand units of the regional aquifer known as the Pliocene-Miocene Aquifer System.

In the Bay Minette area, the sands are identified as the Bay Minette Middle Aquifer supplying groundwater to Wells #2, #3, #4 and #5, the Bay Minette Lower Aquifer supplying groundwater to Wells #5 and #6. Well #8 is supplied by a deep Miocene sand aquifer identified as the North Baldwin Rabun Aquifer. Well #9A and #9B is supplied by a Miocene Undifferentiated Aquifer. Well #11 is supplied by a deep Miocene sand aquifer identified as the Tensaw Aquifer. Well #12 is supplied by the Stapleton 275-foot Aquifer.

The source of recharge to the aquifers is precipitation. The produced groundwater is treated with aeration, chlorination, fluoridation and corrosion control prior to distribution. NBU implements and maintains a Source Water Assessment Program in compliance with the Alabama Department of Environmental Management. The Program is a pro-active measure taken by the system to protect its sources of drinking water.

Section 2 – Definitions

In this report you will find many terms and abbreviations you may not be familiar with. To help you better understand these terms, we've provided the following definitions:

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 - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Maximum Contaminant Level Goal (MCLG)- The "Goal" is 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 "Maximum Allowed" (MCL) 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.

Action Level-the concentration of a contaminant that, if exceeded, triggers treatment or other requirements that a water system must follow.

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

Nephelometric Turbidity Unit (NTU) - nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Results of Radon Monitoring:

Radon is a radioactive gas that you can't see, taste or smell. Radon can move up through the ground and into a home through cracks and holes in the foundation. Radon can build up to high levels in all types of homes. Radon can also get into indoor air when released from tap water from showering, washing dishes, and other household activities. Compared to radon entering the home through soil, radon entering the home through tap water will in most cases be a small source of radon in indoor air. Radon is a known human carcinogen. Breathing air containing radon can lead to lung cancer. Drinking water containing radon may also cause increased risk of stomach cancer. If you are concerned about radon in your home, test the air in your home. Testing is inexpensive and easy. Fix your home if the level of radon in your air is 4 picocuries per liter of air (pC/L) or higher. There are simple ways to fix a radon problem that aren't too costly. For additional information, call your state radon program or call EPA's Radon Hotline (800-SOS-RAOON).

Dioxin and Asbestos:

Based on a study conducted by ADEM with the approval of the EPA, a statewide waiver for the monitoring of asbestos and dioxin was issued. Thus monitoring for these contaminants is not required.

Sections 3 and 4

Refer to Tables on following Page.

Section 5 – Additional Info

Subsection A: Contaminants in Drinking Water:

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. All sources of drinking water are subject to potential contamination by constituents that are naturally occurring or are man-made. Those constituents can be microbes, organic or inorganic chemicals, or radioactive materials. 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 (800-426-4791).

Subsection B: Water System Contacts:

White House Water System meets in the Board Room at 11120 White House Fork Rd. Ext on the last Monday of each month at 6:00 p.m.

Board Members and Contact Personnel are:

- Ruffin Crook
- Kerry Wallace
- Larry Patton
- Robert Wallace
- Tony Smith

Subsection C: Sourcewater Assessment and Vulnerability Assessment:

North Baldwin Utilities is in regulatory compliance with respect to sourcewater and vulnerability assessments for each well. Documents associated with the sourcewater and vulnerability assessments are housed at the system's office.

Subsection D:

As part of NBU's UCMR2 Assessment Monitoring, Wells #2, 3, 5, 6, 8 (Rabun), 9A, 9B and 10 were sampled for the presence of 1,3-dinitrobenzene, ROX (Hexa- hydro; 1,3,5-trinitro;1,3,5-triazine), TNT (2,4,6-trini- trotoluene),HBB (2,2',4,4',5,5'-Hexabromobiphenyl), BDE-100 (2,2',4,4',6-Pentabromodiphenyl ether), BDE-153 (2,2',4,4',5,5'-Hexabromodiphenyl ether), BDE-47 (2,2',4,4'-Tetrabromodiphenyl ether), BDE-99 (2,2',4,4',5-Pentabromodiphenyl ether), Dimethoate and Terbufos-sulfone with all samples reported as being non detected for these compounds.



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