Is my water safe?

We are pleased to present to you this year’s Annual Quality Water Report (Consumer Confidence Report) as required by the Safe Drinking Water Act (SDWA). This report is designed to provide details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. This report is a snapshot of last year’s water quality. We are committed to providing you with information because informed customers are our best allies.

Do I need to take 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, persons 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 provider. 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 1-800-426-4791.

Where does my water come from?

Our water source is Anderson Regional Joint Water Systems, Hartwell Lake Filter Plant which is supplied by surface water from the U.S. Army Corps of Engineers’ Hartwell Lake Reservoir, lying along the border of upstate South Carolina and Georgia. The plant operates 24 hours per day, every day of the year. During 2019, the plant treated 7.1 billion gallons of water. The plant is operated by highly trained, state certified operators.

Source water assessment and availability

Source Water Assessment and Protection Plans (SWAP) were completed for all public water systems in South Carolina in May 2003. SWAPs identify potential sources of contamination to drinking water supplies. The SC Department of Health and Environmental Control completed the plans for all SC public water systems. Anderson Regional Joint Water System’s Source Water Assessment Plan can be obtained by contacting the South Carolina Department of Health and Environmental Control, Bureau of Water in Columbia, South Carolina at (803) 898-4300 to make arrangements to review this document.

Water Quality

Pendleton Public Works routinely monitors for constituents in your drinking water according to Federal and State laws. The table shows the results of our monitoring for the period January 1 – December 31, 2019. As water travels over land or underground, it can pick up substances or contaminants such as microbes, inorganic and organic chemicals, and radioactive substances.

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.

We’re pleased to report that our drinking water is safe and meets Federal and State requirements.
For your information, we have provided some definitions to help you better understand the tables.

**Non-Detects (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.

**Action Level (AL)** – 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.

**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 treatment technology.

**Maximum Contaminant Level Goal (MCLG)** – the “goal” MCLG 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 Residual Disinfection 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.

**BDL – Below Detectible Level**

### Anderson Regional Joint Water System

**Carbon**

**Total Organic Carbon**

**TOC Test Results**

<table>
<thead>
<tr>
<th>Contaminant</th>
<th>Violation</th>
<th>Level Detected % removal required</th>
<th>Avg Source Water TOC mg/L</th>
<th>Range</th>
<th>Sample Frequency</th>
<th>MCL</th>
<th>Likely source of contamination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Organic Carbon</td>
<td>N</td>
<td>38% removal *35% required</td>
<td>1.81 mg/L</td>
<td>1.1-2.32 mg/L removal</td>
<td>Monthly</td>
<td>TT ( Step \ 1 )</td>
<td>Naturally present in the environment</td>
</tr>
</tbody>
</table>

*For source water’s TOC level of >2.0 mg/L, 35% removal is required.

For source water TOC level of <2.0 mg/L, an Alternative Criteria 1 is used. Lake Hartwell routinely meets this Alternative Criteria, as source water TOC is typically below 2.0 mg/L.

**If removal levels are under 35%, and source water TOC exceeds 2.0 mg/L, the TT criterion for TOC under Step 1 is required. The Step 1 criterion is defined by the EPA regulation R.61-S8.13.F.*
<table>
<thead>
<tr>
<th>Contaminant</th>
<th>Date Tested</th>
<th>Unit</th>
<th>MCL</th>
<th>Action Level (AL)</th>
<th>Results</th>
<th>Range</th>
<th>Major Source</th>
<th>Violation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead**</td>
<td>2019</td>
<td>ppm</td>
<td>0</td>
<td>AL=0.015</td>
<td>90th % =0.002</td>
<td>ND-0.006</td>
<td>Corrosion of household plumbing. Erosion of natural deposits.</td>
<td>NO</td>
</tr>
<tr>
<td>Copper</td>
<td>2019</td>
<td>ppm</td>
<td>1.3</td>
<td>AL=1.3</td>
<td>90th % = 0.21</td>
<td>0.041-0.239</td>
<td>Corrosion of household plumbing. Erosion of natural deposits.</td>
<td>NO</td>
</tr>
</tbody>
</table>

Table Footnotes:
1. This data is from the most recent test period and shows the 90th percentile result. No samples taken had copper at a level greater than the action level of 1.3 mg/L.
2. This data is from the most recent test period and shows the 90th percentile results. No samples taken had lead at a greater level than the action level of 15 ug/L.

**SECONDARY STANDARDS:** These tests indicate results that may affect the appearance, odor, and taste in the drinking water.

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Annual Average</th>
<th>MCL</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>7.12</td>
<td>6.5 – 8.5</td>
</tr>
<tr>
<td>Alkalinity</td>
<td>12.27 mg/L</td>
<td>N/A</td>
</tr>
<tr>
<td>Chlorine</td>
<td>1.60 mg/L</td>
<td>4.0 mg/L</td>
</tr>
<tr>
<td>Hardness</td>
<td>12.53 mg/L</td>
<td>N/A</td>
</tr>
<tr>
<td>Iron</td>
<td>BDL</td>
<td>0.30 mg/L</td>
</tr>
<tr>
<td>Manganese</td>
<td>BDL</td>
<td>0.05 mg/L</td>
</tr>
<tr>
<td>Sodium</td>
<td>5.1 mg/L</td>
<td>N/A</td>
</tr>
<tr>
<td>Sulfate</td>
<td>7.97 mg/L</td>
<td>250 mg/L</td>
</tr>
</tbody>
</table>

During 2019, Anderson Regional Joint Water System was monitored for *PCBs/Toxaphene. No detections were noted.

*Polychlorinated biphenyls (PCBs)* are man-made chemicals that belong to a family of chemicals known as chlorinated hydrocarbons. PCBs were manufactured in the U.S. from 1929 until 1979, when their manufacture was banned due to concerns about their persistence, bioaccumulation, and potential for adverse effects on human health and the environment. Because PCBs are chemically stable with a high boiling point, and non-flammable with excellent electrical insulating properties, PCBs were used in hundreds of industrial and commercial applications including electrical, heat transfer and hydraulic equipment; as plasticizers in paints, plastics and rubber products (including caulk) and in many other industrial applications.

**Toxaphene**, a synthetic organic chemical, is an amber, waxy organic solid with a piney odor. It was used as an insecticide for cotton and vegetables, and on livestock and poultry. In 1982, most of its uses were banned and in 1990, all uses were banned in the United States. EPA regulates toxaphene in drinking water to protect public health. Toxaphene may cause health problems if present in public or private water supplies in amounts greater than the drinking water standard set by EPA.

**Lead in Drinking 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. Anderson Regional Joint Water System and Pendleton Public Works are 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 1-800-426-4791 or at [http://www.epa.gov/safewater/lead](http://www.epa.gov/safewater/lead).
As you can see by the tables, our system had **NO** violations. We’re 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.

**Compliance Monitoring Regulation 2019**

ARJWS Water Treatment Plant was monitored for compliance sampling in 2019. No concerning detections were noted. If you have any questions regarding this list, please contact: Bryan Bates, the Operations Manager, at 1-(864)-328-2352, or email: bbates@arjwater.com.

The following is a list of contaminants that were tested for, but not detected, in the drinking water:

- Aldicarbsulfoxide, Aldicarbsulfone, Oxamyl (Vydate), Methomyl, 3-Hydroxycarbofuran, Aldicarb, Carbaryl(Sevin), Dalapon, Dickamba, 2,4-D, Glyphosate, Silvex, Dinoseb, Picolam, Benzo(a)Pyrene, p-Isopropyltoluene, Chloromethane, Dichlorodifluoromethane, Bromomethane, Chloroethane, Hexachlorobutadiene, Naphthalene, 1,2,3- Trichlorobenzene, Cis-1,2-Dichloroethene, Dibromomethane, Antimony, Diquat, 1,1-Dichloropropene, 1,2-Dichloropropane,
- 2,2-Dichloropropane, 1,3-Dichloropropene, 1,2,3-Trichloropropene, 1,3-Dichloropropane, 1,2,4-Trimethylbenzene, 1,2,4-Trichlorobenzene, n-Butylbenzene, Beryllium, 1,3,5-Trimethylbenzene, Tert-Butylbenzene, Sec-Butylbenzene, Bromochloromethane, Xylenes(total), 2-Chlorotoluene, 4-Chlorotoluene, 1,2-Dichlorobenzene,
- 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Vinyl Chloride, 1,1-Dichloroethylene, 1,1,1-Trichloroethane, Thallium,
- Carbon Tetrachloride, Trans 1,3-Dichloropropene, Trichloroethylene, 1,1,2-Trichloroethane, Tetrachloroethane, 1,1,1,2- Tetrachloroethene, 1,1,2-2-Tetrachloroethane, Chlorobenzene, Benzene, Toluene, Ethylbenzene, Brombenzene, Isopropylbenzene, Styrene, MTBE, n-Propylbenzene, Barium, Trichlorofluoromethane, BCH-Gamma, M-Dichlorobenzene, O-Dichlorobenzene, P-Dichlorobenzene, and Trans-1,2- Dichloroethylene.

All sources of drinking water are subject to potential contamination by substances that are naturally occurring or manmade. These substances can be microbes, inorganic or organic chemicals or radioactive substances. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency’s Safe Drinking Water Hotline at 1-800-426-4791.

MCLs are set at very stringent levels. To understand the possible 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-in-a-million chance of having the described health effect.

If you have any questions about your water utility, please contact Keith Malone, Director of Public Works, at (864) 646-9073. We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled Town Council meetings held the first Monday of every month at 7pm at 310 Greenville Street, Pendleton, South Carolina 29670.