2018 Flagler County Water Quality Report – Plantation Bay PWS #2184251

We’re pleased to present to you this year’s Annual Water Quality Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water.

Plantation Bay’s Water Source
Our water source is ground water from four wells drilled 150 – 160 feet into the Floridan Aquifer. In 2018, the Florida Department of Environmental Protection performed a Source Water Assessment on our system and a search of the data sources indicated no potential sources of contamination near our wells. The assessment results are available on the FDEP Source Water Assessment and Protection Program website at www.dep.state.fl.us/swapp.

Plantation Bay’s Water Treatment Plant
Plantation Bay operates a 0.756 million gallons per day (MGD) water treatment plant that currently serves about 2,111 households within the community. The process for treating the water, distributed to Plantation Bay consists of a 1.50 MGD Aeration Tank, a 0.756 MGD Lime Softening System, a 0.756 MGD Sand Filtration System, a Chloramine Disinfection System (that separately injects Chlorine and Ammonia into the filtered water), a system that injects a corrosion inhibitor (to control Lead and Copper in the water) and a 450,000 gallon ground level Storage Tank.

Monitoring of Plantation Bay’s Water
Plantation Bay Utility Company routinely monitors for contaminants in your drinking water according to Federal and State laws, rules, and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2018. Data obtained before January 1, 2018, and presented in this report are from the most recent testing done in accordance with the laws, rules, and regulations. This report shows our water quality results and what they mean.

Contact For Additional Information
If you have any questions concerning your water or this report, please contact Raymond Panas, Utilities Coordinator at (386) 313-4133.

What Can We Expect to Find in Our 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 stormwater 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 stormwater 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 stormwater 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, the EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration (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 the 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 at 1-800-426-4791.

How This Report Shows Our Water Quality Results and What They Mean

This report shows our water quality results and what they mean to you. It also provides important information about your water and how it relates to your health. The information in this report is based primarily on 2018 facts and figures. However, the U.S. Environmental Protection Agency (EPA) does not require us to perform all tests every year. When necessary, some data was obtained from prior years. As directed by the agencies that regulate our industry, only values from those tests that exceeded specified criteria are included. We will notify you immediately if there is any reason for concern.

How Do I Read This?

It’s easy. The table shows the results of our water quality analyses. The column marked “Level Detected” shows the highest results from the last time tests were performed. "Likely Sources" shows where this substance usually originates. Descriptions below explain other important details. In this table you may find unfamiliar terms and abbreviations. To help you better understand these terms, we’ve provided the following definitions:

- **Maximum Contaminant Level or MCL**: 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 or 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.
- **ND**: Means not detected and indicates that the substance was not found by laboratory analysis.
- **Parts per million (ppm) or Milligrams per liter (mg/l)**: One part by weight or analyte to 1 million parts by weight of the water sample.
- **Parts per billion (ppb) or Micrograms per liter (ug/l)**: One part by weight of analyte to 1 billion parts by weight of the water sample.
- **Picocurie per liter (pCi/l)**: Measure of the radioactivity in water.
- **Action Level (AL)**: The concentration of a contaminant that, if exceeded, triggers treatment or other requirements that a water system must follow.
- **Maximum Residual Disinfectant Level or 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.
- **Maximum Residual Disinfectant Level Goal or 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 contaminants.
- **Minimum Detectable Limit or MDL**: The analysis result is equal or less than the detectable limits of the laboratory.
- **Local Running Annual Average or LRAA**: Average of results over the last four quarters.
- **N/A**: Means not applicable.

### DRINKING WATER QUALITY TEST RESULTS

<table>
<thead>
<tr>
<th>Inorganic Contaminants triannually</th>
<th>Dates of sampling (mo./yr.)</th>
<th>MCL Violation Y/N</th>
<th>Level Detected</th>
<th>Range of Results</th>
<th>MCLG</th>
<th>MCL</th>
<th>Likely Source of Contamination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barium (ppm)</td>
<td>03/18</td>
<td>N</td>
<td>6.2</td>
<td>N/A</td>
<td>2</td>
<td>2</td>
<td>Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits</td>
</tr>
<tr>
<td>Disinfectant or Contaminant and Unit of Measurement</td>
<td>Dates of sampling (mo./yr.)</td>
<td>MCL or MRDL Violation Y/N</td>
<td>Level Detected (LRAA)</td>
<td>Range of Results</td>
<td>MCLG or MRDLG</td>
<td>MCL or MRDL</td>
<td>Likely Source of Contamination</td>
</tr>
<tr>
<td>--------------------------------------------------</td>
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</tr>
<tr>
<td>Chloramines (ppm)</td>
<td>Monthly 2018</td>
<td>N</td>
<td>1.86</td>
<td>0.83 – 3</td>
<td>MRDLG = 4.0</td>
<td>MRDL = 4.0</td>
<td>Water additive used to control microbes.</td>
</tr>
<tr>
<td>Haloacetic Acids (five) (HAAS) (ppb)</td>
<td>9/18</td>
<td>N</td>
<td>37.41</td>
<td>13.25-37.41</td>
<td>N/A</td>
<td>MCL = 60</td>
<td>By-product of drinking water disinfection</td>
</tr>
<tr>
<td>TTHM [Total trihalomethanes] (ppb)</td>
<td>9/18</td>
<td>N</td>
<td>69.47</td>
<td>15.1-69.47</td>
<td>N/A</td>
<td>MCL = 80</td>
<td>By-product of drinking water disinfection</td>
</tr>
</tbody>
</table>

### Lead and Copper (Tap Water) sampling not required until 2020

<table>
<thead>
<tr>
<th>Contaminant and Unit of Measurement</th>
<th>Dates of sampling (mo./yr.)</th>
<th>AL Violation Y/N</th>
<th>90th Percentile Result</th>
<th>No. of sampling sites exceeding the AL</th>
<th>MCLG</th>
<th>AL (Action Level)</th>
<th>Likely Source of Contamination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper (tap water) (ppm)</td>
<td>08/17</td>
<td>N</td>
<td>0.38</td>
<td>0 of 10</td>
<td>1.3</td>
<td>1.3</td>
<td>Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives</td>
</tr>
<tr>
<td>Lead (tap water)(ppb)</td>
<td>08/17</td>
<td>N</td>
<td>4</td>
<td>0 of 10</td>
<td>0</td>
<td>15</td>
<td>Corrosion of household plumbing systems, erosion of natural deposits</td>
</tr>
</tbody>
</table>
Due to administrative oversight, our office failed to submit a report on time for an annual sample of Dalapon, a Synthetic Organic Contaminant, required under the Safe Drinking Water Act. This violation has no impact on the quality of the water our customers received, and it posed no risk to public health. We have established a report tracking file to ensure that all reporting requirements are met in the future.

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. Flagler County 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 or at http://www.epa.gov/safewater/lead.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer under-going 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. 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).

We at Flagler County utilities would like you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to insuring the quality of your water. If you have any questions or concerns about the information provided, please feel free to contact Raymond Panas, Utilities Coordinator at (386) 931-3433 or any of the numbers listed above.