ANNUAL WATER QUALITY REPORT

Water Testing Performed in 2016

Este informe contiene información muy importante sobre su agua potable. Para recibir asistencia en traducirlo, por favor llame al teléfono 954-457-1632 o visite 630 NW 2nd Street, Hallandale Beach, FL 33009

PWS ID#: 4060573
We’ve Come a Long Way

Once again we are proud to present our annual water quality report covering the period between January 1 and December 31, 2016. In a matter of only a few decades, drinking water has become exponentially safer and more reliable than at any other point in human history. Our exceptional staff continues to work hard every day—at any hour—to deliver the highest quality drinking water without interruption. Although the challenges ahead are many, we feel that by relentlessly investing in customer outreach and education, new treatment technologies, system upgrades, and training, the payoff will be reliable, high-quality tap water delivered to you and your family.

Community Participation

You are invited to participate in City Commission meetings and voice your concerns about your drinking water. The Commission meets the first and third Wednesday of each month. The Commission meeting Chamber is located in the City’s Municipal Complex at 400 South Federal Highway in Hallandale Beach. Please call (954) 457-1300 or visit the City’s Web site at www.cohb.org to obtain meeting times and additional information.

Important Health Information

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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 may be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. The U.S. EPA/CDC (Centers for Disease Control and Prevention) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline at (800) 426-4791 or http://water.epa.gov/drink/hotline.

Substances That Could Be in 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:

- **Microbial Contaminants**, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- **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.
- **Pesticides and Herbicides**, which may come from a variety of sources such as agriculture, urban storm-water runoff, and residential uses.
- **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.
- **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 U.S. EPA prescribes regulations, which 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 (800) 426-4791.
Tap vs. Bottled

Thanks in part to aggressive marketing, the bottled water industry has successfully convinced us all that water purchased in bottles is a healthier alternative to tap water. However, according to a four-year study conducted by the Natural Resources Defense Council, bottled water is not necessarily cleaner or safer than most tap water. In fact, about 25 percent of bottled water is actually just bottled tap water (40 percent according to government estimates).

The Food and Drug Administration is responsible for regulating bottled water, but these rules allow for less rigorous testing and purity standards than those required by the U.S. EPA for community tap water. For instance, the high mineral content of some bottled waters makes them unsuitable for babies and young children. Further, the FDA completely exempts bottled water that is packaged and sold within the same state, which accounts for about 70 percent of all bottled water sold in the United States.

People spend 10,000 times more per gallon for bottled water than they typically do for tap water. If you get your recommended eight glasses a day from bottled water, you could spend up to $1,400 annually. The same amount of tap water would cost about 49 cents. Even if you installed a filter device on your tap, your annual expenditure would be far less than what you would pay for bottled water.

For a detailed discussion on the NRDC study results, check out their website at https://goo.gl/Jxb6xG.

How Is My Water Treated and Purified?

During the period covered by this Water Quality Report, the City of Hallandale Beach used two methods to treat its potable water supply. The two methods are used together and yield a quality finished water product that is very agreeable to sight and taste. The first method is called lime softening, and has been used by the City for many years to treat its potable water supply. A second treatment method was also added, called membrane softening. Membrane softening treatment yields extremely high-quality water and assures that the City's drinking water supply meets, and exceeds, drinking water regulatory requirements. The City adds chlorine to its drinking water in compliance with state regulatory standards. Chlorine is added in very small amounts to prevent contamination from harmful bacteria. The City also adds fluoride to its drinking water. Fluoride is added in very small quantities as recommended by the U.S. Department of Health and Human Services to effectively reduce the incidence of tooth decay.

Tip Top Tap

The most common signs that your faucet or sink is affecting the quality of your drinking water are discolored water, sink or faucet stains, a buildup of particles, unusual odors or tastes, and a reduced flow of water. The solutions to these problems may be in your hands.

Kitchen Sink and Drain

Hand washing, soap scum buildup, and the handling of raw meats and vegetables can contaminate your sink. Clogged drains can lead to unclean sinks and backed up water in which bacteria (i.e., pink and black colored slime growth) can grow and contaminate the sink area and faucet, causing a rotten egg odor. Disinfect and clean the sink and drain area regularly. Also, flush regularly with hot water.

Faucets, Screens, and Aerator

Chemicals and bacteria can splash and accumulate on the faucet screen and aerator, which are located on the tip of faucets, and can collect particles like sediment and minerals resulting in a decreased flow from the faucet. Clean and disinfect the aerators or screens on a regular basis.

Check with your plumber if you find particles in the faucet screen as they could be pieces of plastic from the hot water heater dip tube. Faucet gaskets can break down and cause black, oily slime. If you find this slime, replace the faucet gasket with a higher-quality product. White scaling or hard deposits on faucets and showerheads may be caused by hard water or water with high levels of calcium carbonate. Clean these fixtures with vinegar or use water softening to reduce the calcium carbonate levels for the hot water system.

Water Filtration/Treatment Devices

A smell of rotten eggs can be a sign of bacteria on the filters or in the treatment system. The system can also become clogged over time, so regular filter replacement is important. (Remember to replace your refrigerator filter!)

How Long Can I Store Drinking Water?

The disinfectant in drinking water will eventually dissipate, even in a closed container. If that container housed bacteria prior to filling up with the tap water, the bacteria may continue to grow once the disinfectant has dissipated. Some experts believe that water could be stored up to six months before needing to be replaced. Refrigeration will help slow the bacterial growth.
To The Last Drop

The National Oceanic and Atmospheric Administration (NOAA) defines drought as a deficiency in precipitation over an extended period of time, usually a season or more, resulting in a water shortage causing adverse impacts on vegetation, animals, and/or people. Drought strikes in virtually all climate zones, from very wet to very dry.

There are primarily three types of drought: Meteorological Drought, which refers to the lack of precipitation, or the degree of dryness and the duration of the dry period; Agricultural Drought, which refers to the agricultural impact of drought, focusing on precipitation shortages, soil water deficits, and reduced ground water or reservoir levels needed for irrigation; and Hydrological Drought, which pertains to drought that usually occurs following periods of extended precipitation shortfalls that can impact water supply (i.e., stream flow, reservoir and lake levels, and ground water).

Drought is a temporary aberration from normal climatic conditions, thus it can vary significantly from one region to another. Although normally occurring, human factors, such as water demand, can exacerbate the duration and impact that a drought condition has on a region. By following simple water conservation measures, you can help significantly to reduce the lasting effects of extended drought.

To learn more about water conservation efforts, check out U.S. EPA’s Water Conservation Tips for Residents at www.epa.gov/region1/eco/drinkwater/water_conservation_residents.html.

Source Water Assessment

In 2016, the Florida Department of Environmental Protection (FDEP) performed a Source Water Assessment on our system. The assessment was conducted to provide information about any potential sources of contamination in the vicinity of our wells. There are three potential sources of contamination identified for our system with low to moderate susceptibility levels. FDEP is monitoring and tracking ground water at this source. The assessment results are available on the FDEP Source Water Assessment and Protection Program website at https://fldep.dep.state.fl.us/swapp/.

Benefits of Chlorination

Disinfection, a chemical process used to control disease-causing microorganisms by killing or inactivating them, is unquestionably the most important step in drinking water treatment. By far, the most common method of disinfection in North America is chlorination.

Before communities began routinely treating drinking water with chlorine (starting with Chicago and Jersey City in 1908), cholera, typhoid fever, dysentery, and hepatitis A killed thousands of U.S. residents annually. Drinking water chlorination and filtration have helped to virtually eliminate these diseases in the U.S. Significant strides in public health are directly linked to the adoption of drinking water chlorination. In fact, the filtration of drinking water plus the use of chlorine is probably the most significant public health advancement in human history.

How chlorination works:

Potent Germicide Reduction in the level of many disease-causing microorganisms in drinking water to almost immeasurable levels.

Taste and Odor Reduction of many disagreeable tastes and odors like foul-smelling algae secretions, sulfides, and odors from decaying vegetation.

Biological Growth Elimination of slime bacteria, molds, and algae that commonly grow in water supply reservoirs, on the walls of water mains, and in storage tanks.

Chemical Removal of hydrogen sulfide (which has a rotten egg odor), ammonia, and other nitrogenous compounds that have unpleasant tastes and hinder disinfection. It also helps to remove iron and manganese from raw water.

Sources of City Drinking Water

Drinking water can come from either ground-water sources (via wells) or surface-water sources (such as rivers, lakes, and streams). The City of Hallandale Beach is supplied by ground water from the Biscayne Aquifer. This ground water is withdrawn by wells drilled approximately 100 feet into the aquifer. Three wells that supply Hallandale Beach with water are located within the City limits. The City is also supplied with well water from Broward County’s South Regional Well Field, located in southwestern Broward County. The City of Hallandale Beach is fortunate to have ground water rather than surface water as its source for the City’s drinking water supply. Ground water is less likely to contain contaminants than surface-water sources. In emergencies, we have an agreement with the City of North Miami Beach to purchase water through our interconnected water mains.
Water Conservation

You can play a role in conserving water and saving yourself money in the process by becoming conscious of the amount of water your household is using and by looking for ways to use less whenever you can. It is not hard to conserve water. Here are a few tips:

• Automatic dishwashers use 15 gallons for every cycle, regardless of how many dishes are loaded. So, get a run for your money and load it to capacity.

• Turn off the tap when brushing your teeth.

• Check every faucet in your home for leaks. Just a slow drip can waste 15 to 20 gallons a day. Fix it and you can save almost 6,000 gallons per year.

• Check your toilets for leaks by putting a few drops of food coloring in the tank. Watch for a few minutes to see if the color shows up in the bowl. It is not uncommon to lose up to 100 gallons a day from an invisible toilet leak. Fix it and you could save more than 30,000 gallons a year.

• Use your water meter to detect hidden leaks. Simply turn off all taps and water using appliances. Then check the meter after 15 minutes. If it moved, you have a leak.

Community Water Fluoridation

The safety and benefits of fluoride are well documented. For over 70 years, U.S. citizens have benefited from drinking water containing fluoride, leading to better dental health. Drinking fluoridated water keeps the teeth strong and has reduced tooth decay by approximately 25% in children and adults.

Over the past several decades, there have been major improvements in oral health. Still, tooth decay remains one of the most common chronic diseases of childhood. Community water fluoridation has been identified as the most cost-effective method of delivering fluoride to all members of the community, regardless of age, educational attainment, or income level.

Nearly all water contains some fluoride, but usually not enough to help prevent tooth decay or cavities. Public water systems can add the right amount of fluoride to the local drinking water to prevent tooth decay.

Community water fluoridation is recommended by nearly all public health, medical, and dental organizations in the U.S. Because of its contribution to the dramatic decline in tooth decay, the Centers for Disease Control and Prevention (CDC) named community water fluoridation one of the greatest public health achievements of the 20th century. (Courtesy of CDC: cdc.gov/fluoridation)

Water Main Flushing

Distribution mains (pipes) convey water to homes, businesses, and hydrants in your neighborhood. The water entering distribution mains is of very high quality; however, water quality can deteriorate in areas of the distribution mains over time. Water main flushing is the process of cleaning the interior of water distribution mains by sending a rapid flow of water through the mains.

Flushing maintains water quality in several ways. For example, flushing removes sediments like iron and manganese. Although iron and manganese do not pose health concerns, they can affect the taste, clarity, and color of the water. Additionally, sediments can shield microorganisms from the disinfecting power of chlorine, contributing to the growth of microorganisms within distribution mains. Flushing helps remove fresh water with sufficient dissolved oxygen, disinfectant levels, and an acceptable taste and smell.

During flushing operations in your neighborhood, some short-term deterioration of water quality, though uncommon, is possible. You should avoid tap water for household uses at that time. If you do use the tap, allow your cold water to run for a few minutes at full velocity before use, and avoid using hot water in order to prevent sediment accumulation in your hot water tank.

Please contact us if you have any questions or if you would like more information on our water main flushing schedule.

Lead in Home Plumbing

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. We 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 or at http://www.epa.gov/safewater/lead
What’s a Cross-connection?

Cross-connections that contaminate drinking water distribution lines are a major concern. A cross-connection is formed at any point where a drinking water line connects to equipment (boilers), systems containing chemicals (air conditioning systems, fire sprinkler systems, irrigation systems) or water sources of questionable quality. Cross-connection contamination can occur when the pressure in the equipment or system is greater than the pressure inside the drinking water line (back-pressure). Contamination can also occur when the pressure in the drinking water line drops due to fairly routine occurrences (main breaks, heavy water demand) causing contaminants to be sucked out from the equipment and into the drinking water line (back-siphonage).

Outside water taps and garden hoses tend to be the most common sources of cross-connection contamination at home. The garden hose creates a hazard when submerged in a swimming pool or when attached to a chemical sprayer for weed killing. Garden hoses that are left lying on the ground may be contaminated by fertilizers, cesspools or garden chemicals. Improperly installed valves in your toilet could also be a source of cross-connection contamination.

Community water supplies are continuously jeopardized by cross-connections unless appropriate valves, known as backflow prevention devices, are installed and maintained. We have surveyed industrial, commercial, and institutional facilities in the service area to make sure that potential cross-connections are identified and eliminated, or protected by a backflow preventer. We also inspect and test backflow preventers to make sure that they provide maximum protection.

For more information on backflow prevention, contact the Safe Drinking Water Hotline at (800) 426-4791.

QUESTIONS?

For more information about this report, or for any questions relating to your drinking water, please call John Fawcett, Water Plant Manager, at (954) 457-1632, or email at jfawcett@cohb.org.
Our water is monitored for many different kinds of contaminants on a very strict sampling schedule. The information below represents only those substances that were detected; our goal is to keep all detects below their respective maximum allowed levels. The State allows us to monitor for certain substances less than once per year because the concentrations of these substances do not change frequently. In these cases, the most recent sample data are included, along with the year in which the sample was taken.

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. We found coliforms, indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) to identify problems and to correct any problems that were found during these assessments.

During the past year, we were required to conduct one Level 1 assessment. One Level 1 assessment was completed. In addition, we were required to take five corrective actions, and we completed all five of these actions. Also, no Level 2 assessments were required to be completed for our water system. (Although *E. coli* was detected, the water system is not in violation of the *E. coli* MCL.)

### PRIMARY REGULATED CONTAMINANTS

#### Microbiological Contaminants

<table>
<thead>
<tr>
<th>CONTAMINANT AND UNIT OF MEASUREMENT</th>
<th>DATE OF SAMPLING (MO./YR.)</th>
<th>MCL/TT VIOLATION (YES/NO)</th>
<th>HIGHEST MONTHLY PERCENTAGE (UNTIL MARCH 31, 2016) OR RESULT (BEGINNING APRIL 1, 2016)</th>
<th>MCLG</th>
<th>MCL/TT</th>
<th>LIKELY SOURCE OF CONTAMINATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Coliform Bacteria [samples until March 31, 2016] (% positive samples)</td>
<td>01/2016–03/2016</td>
<td>No</td>
<td>0</td>
<td>0</td>
<td>Presence of coliform bacteria in &gt;5% of monthly samples</td>
<td>Naturally present in the environment</td>
</tr>
<tr>
<td>Total Coliform Bacteria [beginning April 1, 2016] (Positive samples)</td>
<td>04/2016–12/2016</td>
<td>No</td>
<td>NA</td>
<td>NA</td>
<td>TT</td>
<td>Naturally present in the environment</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CONTAMINANT AND UNIT OF MEASUREMENT</th>
<th>DATE OF SAMPLING (MO./YR.)</th>
<th>VIOLATION (YES/NO)</th>
<th>TOTAL NUMBER OF POSITIVE SAMPLES FOR THE YEAR</th>
<th>MCLG</th>
<th>MCL/TT</th>
<th>LIKELY SOURCE OF CONTAMINATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>E. coli [beginning April 1, 2016] (# positive samples)</td>
<td>11/15/2016</td>
<td>No</td>
<td>1</td>
<td>0</td>
<td>Routine and repeat samples are total coliform-positive and either is E. coli-positive or system fails to take repeat samples following E. coli-positive routine sample or system fails to analyze total coliform-positive repeat sample for E. coli.</td>
<td>Human and animal fecal waste</td>
</tr>
<tr>
<td>Fecal coliform and E.coli [until March 31, 2016] (# positive samples)</td>
<td>01/2016 - 03/2016</td>
<td>No</td>
<td>0</td>
<td>0</td>
<td></td>
<td>Human and animal fecal waste</td>
</tr>
</tbody>
</table>

#### Radiological Contaminants

<table>
<thead>
<tr>
<th>CONTAMINANT AND UNIT OF MEASUREMENT</th>
<th>DATE OF SAMPLING (MO./YR.)</th>
<th>MCL VIOLATION (YES/NO)</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>Radium-226 (pCi/L)</td>
<td>08/15/2016</td>
<td>No</td>
<td>0.897</td>
<td>NA</td>
<td>0</td>
<td>5</td>
<td>Erosion of natural deposits</td>
</tr>
<tr>
<td>Radium-228 (pCi/L)</td>
<td>08/15/2016</td>
<td>No</td>
<td>0.769</td>
<td>NA</td>
<td>0</td>
<td>5</td>
<td>Erosion of natural deposits</td>
</tr>
</tbody>
</table>

#### Inorganic Contaminants

<table>
<thead>
<tr>
<th>CONTAMINANT AND UNIT OF MEASUREMENT</th>
<th>DATE OF SAMPLING (MO./YR.)</th>
<th>MCL VIOLATION (YES/NO)</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>Arsenic (ppb)</td>
<td>08/01/2016</td>
<td>No</td>
<td>1.5</td>
<td>NA</td>
<td>NA</td>
<td>10</td>
<td>Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes</td>
</tr>
<tr>
<td>Barium (ppm)</td>
<td>08/01/2016</td>
<td>No</td>
<td>0.0021</td>
<td>NA</td>
<td>2</td>
<td>2</td>
<td>Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits</td>
</tr>
<tr>
<td>Fluoride (ppm)</td>
<td>08/01/2016</td>
<td>No</td>
<td>0.65</td>
<td>NA</td>
<td>4.0</td>
<td>4</td>
<td>Erosion of natural deposits; discharge from fertilizer and aluminum factories; water additive that promotes strong teeth when at the optimum level of 0.7 ppm</td>
</tr>
<tr>
<td>Nitrate [as Nitrogen] (ppm)</td>
<td>08/01/2016</td>
<td>No</td>
<td>0.049</td>
<td>NA</td>
<td>10</td>
<td>10</td>
<td>Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits</td>
</tr>
<tr>
<td>Nitrite [as Nitrogen] (ppm)</td>
<td>08/01/2016</td>
<td>No</td>
<td>0.041</td>
<td>NA</td>
<td>1</td>
<td>1</td>
<td>Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits</td>
</tr>
<tr>
<td>Sodium (ppm)</td>
<td>08/01/2016</td>
<td>No</td>
<td>17.5</td>
<td>NA</td>
<td>NA</td>
<td>160</td>
<td>Saltwater intrusion; leaching from soil</td>
</tr>
</tbody>
</table>
### Stage 1 Disinfectants and Disinfection By-Products

<table>
<thead>
<tr>
<th>CONTAMINANT AND UNIT OF MEASUREMENT</th>
<th>DATE OF SAMPLING (MO./YR.)</th>
<th>MCL VIOLATION (YES/NO)</th>
<th>LEVEL DETECTED</th>
<th>RANGE OF RESULTS</th>
<th>MCLG OR [MRDLG]</th>
<th>MCL OR [MRDL]</th>
<th>LIKELY SOURCE OF CONTAMINATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chloramines (ppm)</td>
<td>08/01/2016</td>
<td>No</td>
<td>3.10</td>
<td>NA</td>
<td>[4.0]</td>
<td>[4]</td>
<td>Water additive used to control microbes</td>
</tr>
</tbody>
</table>

### Stage 2 Disinfectants and Disinfection By-Products

<table>
<thead>
<tr>
<th>CONTAMINANT AND UNIT OF MEASUREMENT</th>
<th>DATE OF SAMPLING (MO./YR.)</th>
<th>TT VIOLATION (YES/NO)</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>Haloacetic Acids (five) [HAA5] (ppb)</td>
<td>08/01/2016</td>
<td>No</td>
<td>2.00</td>
<td>1.7–2.0</td>
<td>NA</td>
<td>60</td>
<td>By-product of drinking water disinfection</td>
</tr>
<tr>
<td>TTHM [Total trihalomethanes] (ppb)</td>
<td>08/01/2016</td>
<td>No</td>
<td>0.56</td>
<td>NA</td>
<td>NA</td>
<td>80</td>
<td>By-product of drinking water disinfection</td>
</tr>
</tbody>
</table>

### Lead and Copper (Tap Water Samples Collected from Sites throughout the Community)

<table>
<thead>
<tr>
<th>CONTAMINANT AND UNIT OF MEASUREMENT</th>
<th>DATE OF SAMPLING (MO./YR.)</th>
<th>AL EXCEEDANCE (YES/NO)</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>08/2014</td>
<td>No</td>
<td>0.021</td>
<td>0</td>
<td>1.3</td>
<td>1.3</td>
<td>Corrosion of household plumbing systems; erosion of natural deposits</td>
</tr>
<tr>
<td>Lead [tap water] (ppb)</td>
<td>08/2014</td>
<td>No</td>
<td>1.2</td>
<td>0</td>
<td>0</td>
<td>15</td>
<td>Corrosion of household plumbing systems; erosion of natural deposits</td>
</tr>
</tbody>
</table>

### Definitions

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

**Level 1 Assessment:** A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

**Level 2 Assessment:** A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

**MCL (Maximum Contaminant Level):** 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.

**MCLG (Maximum Contaminant Level Goal):** 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.

**MRDL (Maximum Residual Disinfectant Level):** 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.

**MRDLG (Maximum Residual Disinfectant Level Goal):** 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.

**NA:** Not applicable.

**ND (Not detected):** Indicates that the substance was not found by laboratory analysis.

**ppb (parts per billion):** One part substance per billion parts water (or micrograms per liter).

**ppm (parts per million):** One part substance per million parts water (or milligrams per liter).