Annual Drinking Water Quality Report

EGYPTIAN WATER COMPANY

IL1570010

Annual Water Quality Report for the period of January 1 to December 31, 2017

This report is intended to provide you with important information about your drinking water and the efforts made by the water system to provide safe drinking water.

The source of drinking water used by EGYPTIAN WATER COMPANY is Purchased Surface Water

For more information regarding this report contact:

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Este informe contiene información muy importante sobre el agua que usted bebe. Tradúzcalo ó hable con alquien que lo entienda bien.

Source of 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 poses a health risk. More information about 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 roduction and mining activities.

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 water contaminants and potential health effects can be obtained by calling the EPAs Safe Drinking Water Hotline at (800) 426-4791.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

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 indergone organ transplants, people with HIV/AIDS or ther 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 quidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

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 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.

Source Water Information

| Source Water Name | | Type of Water | Report Status | Location |
|----------------------------------|-------------------|---------------|---------------|--|
| CC 01-MASTER METER | FF IL1570600 TP01 | SW | ACTIVE | BS & AG ST |
| CC02 - MASTER METER FROM CHESTER | FF IL1570100 TP03 | SW | ACTIVE | The master meter is located in an underground pit at the intersection of Mary;s Creek and Rte. 150 next to the covered b |

Source Water Assessment

We want our valued customers to be informed about their water quality. If you would like to learn more, please feel welcome to attend any of our regularly scheduled meetings. The source water assessment for our supply has been completed by the Illinois EPA. If you would like a copy of this information, please call our water operator at 618-327-9076. To view a summary version of the completed Source Water Assessments, including: Importance of Source Water; Susceptibility to Contamination Determination; and documentation/recommendation of Source Water Protection Efforts, you may access the Illinois EPA website at http://www.epa.state.il.us/cgi-bin/wp/swap-fact-sheets.pl.

Source of Water: CHESTER: Illinois EPA considers all surface water sources of community water supply to be susceptible to potential pollution problems, hence, the reason for mandatory treatment for all surface water supplies in Illinois. Mandatory treatment includes coagulation, sedimentation, filtration, and disinfection. Within the Illinois portion of the Upper Mississippi River Watershed, which is illustrated in Figure 3, many commodities, including manufactured goods, petrochemicals, and pesticides are transported along the river system. The production, storage, and transportation of these commodities are a major concern, especially when occurring near surface water intakes. In addition, agricultural runoff within the Illinois portion of the Upper Mississippi River Basin contributes to the susceptibility of the Chester intake. With high flow rates and long distances of travel on the Mississippi River, critical areas can be extensive. The critical area for the Chester intake was determined using data from a joint U.S. Environmental Protection Agency/U.S. Geological Survey project. This project used a computer modeling program (SPARROW) to determine travel times on major rivers in the United States. Accidental spills of hazardous materials into navigable waterways are a major concern because of their frequency in the United States in recent years. Illinois has access to 1,116 miles of inland waterway that can handle commercial barge traffic. These include the Upper Mississippi River, Illinois River Waterway, and the Ohio River. Along these waterways are numerous facilities that load and unload hazardous materials. Analysis of reported spills indicate that between 1974 and 1989, 794 accidental spills of hazardous materials occurred along Illinois waterways. Approximately 92% of these spills occurred along the Mississippi and/or the Illinois River. Figure 2 shows the critical area of concern (Zone 1) for the Chester surface water intake. Spills occurring in this critical area will travel to the intake in five hours or less, making contingency planning and spill reporting a major concern in this watershed. Further information concerning spill response planning on the Mississippi River may be found in U.S. EPA's website at www.epa.gov/region5/oil and at U.S. Geological Survey's website ftp://ftp.umesc.er.usgs.gov/pub/gis data/oil spill. The Upper Mississippi River Water Suppliers Coalition is currently working to develop an Early Warning Monitoring Network on the Mississippi River. This Network would enhance response times by providing supplies with early notification of spills on the Mississippi River. Source of Water: SPARTA: Illinois EPA considers all surface water sources of community water supply to be susceptible to potential pollution problems, hence, the reason for mandatory treatment for all surface water supplies in Illinois. Mandatory treatment includes coagulation, sedimentation, filtration, and disinfection. Primary sources of pollution in Illinois lakes can include agricultural runoff, land disposal (septic systems) and shoreline erosion.

2017 Regulated Contaminants Detected

Lead and Copper

Definitions:

Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety. Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

| Lead and Copper | Date Sampled | MCLG | Action Level (AL) | 90th Percentile | # Sites Over AL | Units | Violation | Likely Source of Contamination |
|-----------------|--------------|------|-------------------|--------------------|-----------------|-------|-----------|---|
| Copper | 09/14/2016 | 1.3 | 1.3 | 0.83 | 0 | ppm | N | Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems. |
| Lead | 09/14/2016 | 0 | 15 | 1.5 | 0 | ppb | N | Corrosion of household plumbing systems; Erosion of natural deposits. |

Water Quality Test Results

| Definitions: | The following tables contain scientific terms and measures, some of which may require explanation. |
|---|--|
| Avg: | Regulatory compliance with some MCLs are based on running annual average of monthly samples. |
| 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. |
| 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. |
| 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. |
| $\label{eq:maximum residual} \begin{array}{ll} \mbox{\tt Maximum residual disinfectant level goal} \\ \mbox{\tt or MRDLG:} \end{array}$ | 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. |

Water Quality Test Results

na: not applicable.

mrem: millirems per year (a measure of radiation absorbed by the body)

ppb: micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.

ppm: milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.

Treatment Technique or TT: A required process intended to reduce the level of a contaminant in drinking water.

Regulated Contaminants

| MRDLG = 4 | MRDL = 4 | ppm | N | Water additive used to control microbes. |
|--------------------------|----------|-----|-------|--|
| | | | | |
| No goal for the total | 60 | ddd | N | By-product of drinking water disinfection. |
| No goal for the total | 80 | ppb | N | By-product of drinking water disinfection. |
| | | 3 | 5 PP2 | 5 17 |

Violations Table

Total Organic Carbon

Total organic carbon has no health effects. However, total organic carbon provides a medium for the formation of disinfection byproducts. These byproducts

| Violation Type | Violation Begin | Violation End | Violation Explanation |
|----------------------------------|-----------------|---------------|--|
| INADEQUATE DBP PRECURSOR REMOVAL | 10/01/2017 | 12/31/2017 | Our treatment plant failed to adequately reduce the total organic carbon content of our source water which is needed to properly minimize the amount of disinfection byproducts in our drinking water. |

As you can see from the violation table above, we experienced a violation during the 2017 reporting year.

We issued a public notice to you our customers on January 30, 2018 providing information on this type of violation. We returned to compliance on January 30, 2018.

We purchase treated water from the City of Sparta public water supply and the City of Chester public water supply. Per the Consumer Confidence Report regulations, we are required to include pertinent information regarding the quality of these two supply's drinking water. This information is included below.

CITY OF SPARTA PUBLIC WATER SUPPLY PWS ID# IL1570600

Regulated Contaminants

| Inorganic Contaminants | Collection Date | Highest Level Detected | Range of Levels Detected | MCLG | MCL | Units | Violation | Likely Source of Contamination |
|-----------------------------------|--------------------|---------------------------|-----------------------------|------|-----|-------|-----------|--|
| Arsenic | 2017 | 1 | 1.1 - 1.1 | 0 | 10 | ddd | N | Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes. |
| Barium | 2017 | 0.024 | 0.024 - 0.024 | 2 | 2 | ppm | N | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits. |
| Fluoride | 2017 | 0.6 | 0.591 - 0.591 | 4 | 4.0 | ppm | N | Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories. |
| Manganese | 2017 | 5 | 5 - 5 | 150 | 150 | ppb | N | This contaminant is not currently regulated by the USEPA. However, the state regulates. Erosion of natural deposits. |
| Mercury | 2017 | 0.3 | 0.3 - 0.3 | 2 | 2 | ppb | N | Erosion of natural deposits; Discharge from refineries and factories; Runoff from landfills; Runoff from cropland. |
| Nitrate [measured as Nitrogen] | 2017 | 0.15 | 0.15 - 0.15 | 10 | 10 | ppm | N | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits. |

| Sodium | 2017 | 11 | 11 - 11 | | | ppm | N | Erosion from naturally occurring deposits. Used in water softener regeneration. |
|--|--------------------|---------------------------|-----------------------------|------|-----|-------|-----------|---|
| Synthetic organic contaminants including pesticides and herbicides | Collection Date | Highest Level Detected | Range of Levels Detected | MCLG | MCL | Units | Violation | Likely Source of Contamination |
| 2,4-D | 2017 | 1 | 0 - 1 | 70 | 10 | ppb | N | Runoff from herbicide used on row crops. |
| Atrazine | 2017 | 1 | 0 - 0.39 | 3 | 3 | ddd | N | Runoff from herbicide used on row crops. |
| Simazine | 2017 | 0.49 | 0 - 0.49 | 4 | 4 | ppb | N | Herbicide runoff. |
| | | | | | | | | |

Turbidity

| | Limit (Treatment Technique) | Level Detected | Violation | Likely Source of Contamination |
|--------------------------------|-----------------------------|----------------|-----------|--------------------------------|
| Highest single measurement | 1 NTU | 0.201 NTU | N | Soil runoff. |
| Lowest monthly % meeting limit | 0.3 NTU | 100% | N | Soil runoff, |

Information Statement: Turbidity is a measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality and the effectiveness of our filtration system and disinfectants.

Total Organic Carbon

The percentage of Total Organic Carbon (TOC) removal was measured each month and the system met all TOC removal requirements set, unless a TOC violation is noted in the violations section.

CITY OF CHESTER PUBLIC WATER SUPPLY PWS ID# IL1570100

Regulated Contaminants

| Inorganic Contaminants | Collection Date | Highest Level Detected | Range of Levels Detected | MCLG | MCL | Units | Violation | Likely Source of Contamination |
|-----------------------------------|--------------------|---------------------------|-----------------------------|------|-----|-------|-----------|--|
| Arsenic | 2017 | 2 | 1.6 - 1.6 | 0 | 10 | ppb | N | Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes. |
| Barium | 2017 | 0.024 | 0.024 - 0.024 | 2 | 2 | ppm | N | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits. |
| Fluoride | 2017 | 0.7 | 0.7 - 0.7 | 4 | 4.0 | ppm | N | Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories. |
| Manganese | 2017 | 1 | 1.2 - 1.2 | 150 | 150 | ppb | N | This contaminant is not currently regulated by the USEPA. However, the state regulates. Erosion of natural deposits. |
| Nitrate [measured as Nitrogen] | 2017 | 4 | 4 - 4 | 10 | 10 | ррт | N | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits. |
| Sodium | 2017 | 26 | 26 - 26 | | | ppm | N | Erosion from naturally occurring deposits. Used in water softener regeneration. |

| Radioactive Contaminants | Collection Date | Highest Level Detected | Range of Levels Detected | MCLG | MCL | Units | Violation | Likely Source of Contamination |
|---|--------------------|---------------------------|-----------------------------|------|-----|-------|-----------|--------------------------------|
| Combined Radium 226/228 | 04/21/2015 | 0.889 | 0.889 - 0.889 | 0 | 5 | pCi/L | N | Erosion of natural deposits. |
| Gross alpha excluding radon and uranium | 04/21/2015 | 2.24 | 2.24 - 2.24 | 0 | 15 | pCi/L | N | Erosion of natural deposits. |

Turbidity

| | Limit (Treatment Technique) | Level Detected | Violation | Likely Source of Contamination |
|--------------------------------|--------------------------------|----------------|-----------|--------------------------------|
| Highest single measurement | 1 NTU | 0.28 NTU | N | Soil runoff. |
| Lowest monthly % meeting limit | 0.3 NTU | 100% | N | Soil runoff. |

Information Statement: Turbidity is a measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality and the effectiveness of our filtration system and disinfectants.

Total Organic Carbon

The percentage of Total Organic Carbon (TOC) removal was measured each month and the system met all TOC removal requirements set, unless a TOC violation is noted in the violations section.