MUNICIPAL WATER AUTHORITY OF ALIQUIPPA 2015 ANNUAL DRINKING WATER QUALITY REPORT PWSID #: 5040006

Este informe contiene información importante acerca de su agua potable. Haga que alguien lo traduzca para usted, ó hable con alguien que lo entienda. (This report contains important information about your drinking water. Have someone translate it for you, or speak with someone who understands it.)

WATER SYSTEM INFORMATION:

This report shows our water quality and what it means. If you have any questions about this report or concerning your water utility, please contact the Municipal Water Authority of Aliquippa at 724-375-5525. We want you to be informed about your water supply. If you want to learn more, please attend any of our regularly scheduled meetings. They are held on the 2nd and 3rd Wednesday of each month.

SOURCE(S) OF WATER:

Our water source is a groundwater well field located along the Ohio River consisting of collector wells and several vertical wells.

A *Source Water Assessment* of our source was completed by the PA Department of Environmental Protection (Pa. DEP). The Assessment has found that our source is potentially most susceptible to accidental spills from traffic along the railways, roads, and river. Overall, our source has high risk of significant contamination. A summary report of the Assessment is available on the *Source Water Assessment & Protection web* page at:

(www.dep.state.pa.us/dep/deputate/watermgt/wc/Subjects/SrceProt/SourceAssessment/default.htm)

Complete reports were distributed to municipalities, water supplier, local planning agencies and PaDEP offices. Copies of the complete report are available for review at the PaDEP Southwest Regional Office, Records Management Unit at 412-442-4000.

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, 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 microbial contaminants are available from the *Safe Drinking Water Hotline* (800-426-4791).

MONITORING YOUR WATER:

We routinely monitor for contaminants in your drinking water according to federal and state laws. The following tables show the results of our monitoring for the period of January 1 to December 31, 2015. The State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data is from prior years in accordance with the Safe Drinking Water Act. The date has been noted on the sampling results table.

DEFINITIONS:

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

Maximum Contaminant Level (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 (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 (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 (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 Residual Disinfectant Level (MinRDL) - The minimum level of residual disinfectant required at the entry point to the distribution system.

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

ppb = parts per billion, or micrograms per liter (µg/L)

ppm = parts per million, or milligrams per liter (mg/L)

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DETECTED SAMPLE RESULTS:

Chemical Contaminants								
Contaminant	MCL in CCR Units	MCLG	Level Detected	Range of Detections	Units	Sample Date	Violation Y/N	Sources of Contamination
Fluoride	2*	2	0.24	N/A – single sample	Ppm	6/8/15	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nickel	N/A	N/A	0.04	N/A – single sample	ppm	6/8/15	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Nitrate	10	10	0.71	N/A – single sample	ppm	6/8/15	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Haloacetic Acids (HAAs)	60	N/A	14.58	0–14.58	ppb	10/9/15	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHMs)	80	N/A	63.56	5.99 – 63.56	ppb	10/9/15	N	By-product of drinking water chlorination.
Chlorine (15 samples each month)	MRDL = 4	MRDLG = 4	0.884	0.555 – 0.884	ppm	Monthly	N	Water additive used to control microbes.

^{*}EPA's MCL for fluoride is 4 ppm. However, Pennsylvania has set a lower MCL to better protect human health.

Entry Point Disinfectant Residual								
Contaminant	Minimum Disinfectant Residual	Lowest Level Detected	Range of Detections	Units	Sample Date	Violation Y/N	Sources of Contamination	
Chlorine	0.4	0.45	0.45 – 1.20	ppm	Daily	Ν	Water additive used to control microbes.	

Lead and Copper									
	Action		90 th Percentile		# of Sites Above	Violation	Sources of		
Contaminant	Level (AL)	MCLG	Value	Units	AL of Total Sites	Y/N	Contamination		
Lead	15	0	7.8	ppb	1 of 30	N	Corrosion of household plumbing.		
Copper	1.3	1.3	0.252	ppm	0 of 30	N	Corrosion of household plumbing; Erosion of natural deposits; Leaching from wood preservatives.		

OTHER VIOLATIONS:

The Authority had an elevated volume of unaccounted for water in 2015 of approximately 61%. The Authority is actively working to reduce this loss of water via an extensive meter replacement program and aggressive leak detection / repair and valve replacement programs. The treatment plant and the well (collector and radial) meters were replaced and placed into service during the first quarter of 2016. In late 2015, the Authority implemented leak detection / repair and valve replacement programs. A significant number of leaks have been located and repaired. Several valves ranging in size from 4 to 16-inch have been replaced in order to have better control of the system to avoid large scale outages and minimize loss of water when a break occurs. As of 3/31/16, the overnight loss of water in the storage facilities has decreased. To help pay for the increased expenditures associated with these programs, the Authority implemented a significant rate increase across the board to all customers.

In January 2015, the Authority was late in submitting chlorine results to the PaDEP. These results were sent to the DEP after the required submission date. The results of these tests were in compliance with safe drinking water standards and did not affect the quality of your water.

The Authority failed to calibrate the chlorine analyzers per EPA method 334.

The Consumer Confidence Report (CCR) for the 2014 Operating Year was completed and submitted late.

EDUCATIONAL INFORMATION:

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 stormwater run-off, 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 stormwater 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 stormwater 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, EPA and DEP prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA and DEP 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 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).

Information about Lead

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. The Municipal Water Authority of Aliquippa 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.

For more information, please contact the Authority's General Manager, Robert J. Bible, P.E. at 724-375-5525.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

This notice is being sent to you from the Municipal Water Authority of Aliquippa.

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