

**2009 ANNUAL DRINKING WATER QUALITY REPORT
BOROUGH OF AVONDALE
PWSID # 1150005**



Este informe contiene información muy importante sobre su agua de beber. Tradúzcalo ó hable con alguien que lo entienda bien. (This report contains very important information about your drinking water. Translate it, 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 Becky Brownback at 610-268-8501. We want you to be informed. If you want to learn more, please attend any of our regularly scheduled meetings. They are held on the 3rd Tuesday of every month at 6:00 pm at the Avondale Borough Hall, 110 Pomeroy Avenue, Avondale, PA 19311.

SOURCES OF WATER:

The water you receive is disinfected and pumped to you from two wells that are drilled into the Cockeysville Marbal Aquifer. In 2009, both wells pumped a total average of 87,925 gallons of drinking water each day.

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, 2009. 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 AND ABBREVIATIONS:

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.

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

pCi/L = picocuries per liter (a measure of radioactivity)

ppb = parts per billion, or micrograms per liter ($\mu\text{g/L}$)

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

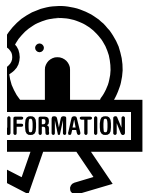


DETECTED SAMPLE RESULTS:

Chemical Contaminant	MCL in CCR units	MCLG	Highest Level Detected	Range of Detections	Units	Sample Date	Violation Y/N	Sources of Contamination
Chlorine	4	4	1.11	0.39-1.11	ppm	1/09-12/09	N	Water additive used to control microbes.
Barium	2	2	0.138	0.138	ppm	12/13/06	N	Erosion of natural deposits.
Nitrate	10	10	4.12	2.42-4.12	ppm	1/09-10/09	N	Source water contaminant from fertilizer use
Haloacetic Acids	60	N/A	4.90	0.0-4.90	ppb	3/07-8/09	N	By-product of drinking water chlorination
Trihalomethane	80	N/A	24.4	0.0-24.4	ppb	3/07-8/09	N	By-product of drinking water chlorination
Nickel	100	100	5.40	5.40	ppb	5/09	N	Erosion of natural deposits.

Contaminant	Action Level (AL)	MCLG	90 th Percentile Value	Units	# of Sites Above AL of Total Sites	Violation of TT Y/N	Sources of Contamination
Copper	1.3	1.3	0.379	ppm	0	N	Corrosion of household plumbing.
Lead	15	0	6.0	ppb	0	N	Corrosion of household plumbing.

<i>Substance</i>	<i>MCL in CCR units</i>	<i>MCLG</i>	<i>Highest Level Detected</i>	<i>Range of Detections</i>	<i>Units</i>	<i>Sample Date</i>	<i>Violation Y/N</i>	<i>Sources of Contamination</i>
Gross Alpha	15	0	1.37	0.0-1.37	pCi/l	5/06-11/07	N	Erosion of natural deposits.
Combine Uranium	30	0	1.07	0.0-1.07	ppb	5/06-11/07	N	Erosion of natural deposits.
Alpa Emitters	15	0	0.21	0.21	pCi/l	9/04	N	Erosion of natural deposits.



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).

Other Violations:

Technical Violation – Monitoring for chlorine, total coliform and nitrate reported late. Only one sample of chlorine was sampled when two needed to be reported. No water quality violations occurred.