

Inorganic Compounds (IOCs) - Testing done on all wells during 2007 included compounds such as Antimony, Arsenic, Nickel, and Thallium. Beryllium, Barium, Cadmium, Chromium, Fluoride, Mercury and Selenium were sampled in 2007 for Well #3 and Well #5. Fluoride was detected in Well #3 only. Our water system has waivers for some inorganic compounds.

Volatile Organic Compounds (VOCs) - VOCs are petroleum byproducts, including fuels such as gasoline and diesel; lighter fluid; fuel additives; solvents such as benzene and toluene; cleaning compounds such as dry cleaning solution, degreasers, refrigerants and adhesives. The EPA regulates the amount of certain VOCs in drinking water, while the EPA and the State monitor for the presence of other VOCs in drinking water. Over 60 additional organic compounds were tested in all wells in 2007. No volatile organics were detected in our water system.

Synthetic Organic Compounds (SOCs) - SOCs encompass a wide range of organic compounds, including pesticides and herbicides used for crops and lawns; wood preservatives; PCBs from electrical transformers; and byproducts from PVC and other plastics, including phthalates and adipates. SOCs may be released during manufacturing processes, runoff from fields where herbicides or pesticides have been used, and disposal of industrial wastes. Nearly 40 different compounds were tested in 2007 for all wells, and none was detected in our water system.

Radionuclides: Alpha emitters are certain minerals which are radioactive and which may emit a form of radiation known as alpha radiation. Radium 226/228 is a naturally occurring radioactive contaminant that occurs primarily in ground water. Testing was done for radionuclides in 2007.

INTERPRETATION

We continually monitor for various constituents in the water supply to meet all regulatory requirements. Some constituents have been detected in our water, as described above. If you would like more information about these contaminants, you may contact EPA's Safe Drinking Water Hotline (800-426-4791). We did not monitor for Volatile Organic Compounds in Wells #5 and #6 in 2006, and we also did not send out a Consumer Confidence Report (this report) in a timely manner last year. These are considered monitoring violations but do not affect the quality of our water. We missed monitoring for Radionuclides but have since completed sampling for them.

Did you know...?

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

For your information....

All sources of drinking water are subject to potential contamination by constituents that are naturally occurring or are man made. Those constituents can be microbes, organic or inorganic chemicals, or radioactive materials.

All 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.

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 byproducts 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 mining activities.*

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. Food and Drug Administration regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

MCLs are set at very stringent levels. To understand the possible health effects described for many regulated constituents, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

Thank you for allowing us to continue providing your family with clean, quality water this year. We at the City of Belgrade are committed to ensuring the quality of your water, and work around the clock to provide top quality water to every tap. We ask that all our customers help us protect our water sources, which are the heart of our community, our way of life and our children's future.

This report will not be mailed, however copies are available at Belgrade City Hall, 91 E. Central, Belgrade, MT 59714. Please call the Public Works Director Steve Klotz at (406) 388-3760 if you have any questions.