THE DEPARTMENT OF PUBLIC WORKS
OF QUEEN ANNE'S COUNTY
SANITARY DISTRICT
310 BATEAU DRIVE
PO BOX 10
STEVENSVILLE, MARYLAND 21666
(410) 643-3535 FAX: (410) 643-7364
TDD: (410) 758-2126

COUNTY COMMISSIONERS

ERIC S. WARGOTZ, M.D., Countywide
COURTNEY M. BILLUPS, District 1
PAUL L. GUNTHER, District 2
GENE M. RANSOM III, District 3
CAROL R. FORDONSKI, District 4

TODD R. MOHN, P.E.
Chief Administrative Officer

ALAN L. QUIMBY, P.E.
Chief Sanitary Engineer

June 1, 2009

2009 Annual Drinking Water Quality Report

Grasonville Water Treatment Facility
5439 Main Street, Grasonville, Maryland
MDE Public Water System ID No. 170020

This report is required by the federal Safe Water Drinking Act Amendment of 1996 and is designed to educate you about the quality of the water we deliver to you every day. We are pleased to inform you that your drinking water is safe and meets all federal and state requirements. **However we are aware that we still have iron issues (brown water) occasionally that can be a significant inconvenience, but is not a health issue.** Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water.

The Sanitary District routinely monitors for constituents in your drinking water according to Federal and State laws. **Your water is supplied by the Grasonville water treatment facility that utilizes groundwater from a two 10-inch wells 950 feet deep into the Magothy aquifer.** The enclosed table indicates the results of our monitoring for the period of January 1 to December 31, 2008. All drinking water, including bottled drinking water, may be reasonably expected to contain at least a small amount of some constituents. It's important to remember that the presence of these constituents does not necessarily pose 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 Sanitary District's water staff consists of nine personnel with a combined experience of 64 years. Each operator is required to obtain 30 hours of formal training every 3 years in water treatment and water distribution operations.

We want our customers to be informed about their water utility. If you have any questions about this report or concerning your water utility, please contact me at the above number. Major decisions affecting the water utility are made by the County Commissioners, sitting as the Sanitary Commission. Should you wish to attend, the Sanitary Commission meets every second Tuesday at 10:00 a.m. in their meeting room located at 107 North Liberty Street, Centreville, Maryland.

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 (1-800-426-4791). *(Please note this paragraph is mandated by EPA. Cryptosporidium is a microbe found in some surface water supplies such as rivers or reservoirs. It is not found in groundwater that is where all of our water supplies originate.)*

In the following table you will find many terms and abbreviations you might not be familiar with. To help you to better understand these terms we've provided the following definitions:

Non-Detect - laboratory analysis indicates that the constituent is not present.

Parts per million (ppm) - one part per million corresponds to one minute in two years or a single penny in $10,000. Also equivalent to milligrams per liter (mg/l).

Parts per billion (ppb) - one part per billion corresponds to one minute in 2,000 years, or a single penny in $10,000,000. Also equivalent to micrograms per liter (µg/l).

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 Goal (MCLG) - The 'Goal' is 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 Contaminant Level (MCL) - The 'Maximum Allowed' is 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.

In our continuing effort to maintain a safe and dependable water supply it is often necessary to make improvements in your water system. The costs of these improvements, as well as the cost to retain experienced staff, are reflected in the small annual rate increases you may experience every July.

Very truly yours,

Alan L. Quimby, P.E.
Chief Sanitary Engineer

TEST RESULTS

2008 Grasonville Water Treatment Plant

REGULATED CONTAMINENTS

Contaminant	Units	Level Detected	MCL	MCLG	Likely Sources
Gross Beta[1]	µrem/y	**Non Detect**	4000	0	Natural Deposits
Copper	ppb	332	AL=1300	1300	Plumbing Corrosion
Nitrate	ppb	**Non Detect**	10,000	10,000	Fertilizer Runoff

UNREGULATED (but detected) CONTAMINENTS

Contaminant	Units	Level Detected
Iron	ppb	250
Sodium	ppm	42
Sulfate	ppm	25

1. Gross Beta is a measure of naturally occurring radioactive contaminants.

2. The Maryland Department of the Environment (MDE) tests for Volatile Organic Compounds (VOC) and Synthetic Organic Compounds (SOC).

   Test Dates: (full test results available upon request)
   - Lead & Copper – December 31, 2007
   - Nitrate & Nitrite – **June 10, 2008**
   - Metals - December 4, 2007
   - VOC – December 4, 2007
   - Radioactives – **April 1, 2008**
   - All Others – December 4, 2007

3. **Bold** indicates new results for this year's report; most contaminants are not required to be tested annually

WATER CONSERVATION TIPS

I. Introduction

According to the American Water Works Association, the average per person indoor water use in the United States is 69.3 gallons per day. The breakdown of this use is shown below. As you will note, leaks are responsible almost 13.7%, or 9.5 gallons per day (gpd).

Toilets	26.7%	(18.5 gpd)	Leaks	13.7%	(9.5 gpd)
Clothes Washing	21.7%	(15.0 gpd)	Dishwasher	1.4%	(1.0 gpd)
Showers & Baths	18.5%	(12.8 gpd)	Other	2.2%	(1.6 gpd)
Faucets	15.7%	(10.9 gpd)			

II. Toilets – Toilets use the majority of water in your home.

a. Older toilets (installed prior to 1994) use 3.5 to 7 gallons per flush. Replacing an older toilet can save the typical household 7,900 to 21,700 gallons per year.
b. You can also fill one-half gallon milk bottles with water and place in the tank. Doing so will then save one-half gallon per flush.
c. Check toilets periodically for leaks. This can be done by putting food coloring in the tank (not the bowl) and waiting an hour. If the color is in the bowl after an hour, the toilet is leaking. You may need to clean or replace the flapper.
d. Don't use toilets as a trash can. Flush only when necessary.

III. Bathing - The third highest water use (and the second highest energy use) is bathing.

a. If your showerhead can fill a one-gallon bucket in less than 20 seconds, replace it with a water efficient showerhead.
b. A short shower instead of a bath will save 20 gallons of water.
c. When taking a bath, don't let the cold water escape when you first turn on the hot water, the hot water which follows will warm the initial burst of cold water.

IV. Appliances

a. Clothes washers use 30-35 gallons per load. A high efficiency model will use 30% less water and 40-50% less energy.
b. A full dishwasher uses as much as 25 gallons per load, but a full dishwasher uses less water than washing the same load by hand. Newer dishwashers should not require pre-rising of the dirty dishes in the sink.

V. Other

a. Install aerators on all faucets.
b. Turn off water when brushing teeth.
c. Keep water in the refrigerator to drink, rather than letting water run into the sink while waiting for the water to get cool.
d. Keep garbage disposal use to a minimum.

VI. Irrigation

a. A single yard sprinkler uses as much water in one hour as a typical home uses in 24 hours.
b. If you water one hour a day for a week, you have doubled your water use for that week.
c. Unless you have a 'yard meter' strictly for irrigation, you will also be paying for sewer for the irrigation water.
d. Irrigate sparingly, or use alternative means such as rain barrels.