

Community Participation

The Guntersville Water Board's business office is located at 329 Gunter Avenue in the City Municipal Building. Our business hours are 8:00 a.m. to 4:30 p.m., Monday-Friday. We have monthly Board of Directors meetings that are open to the public the first Monday of each month at 6:00 p.m. in the City Municipal Building. Our telephone numbers are: Office (256) 582-5931, Nights-Weekends-Holidays (256) 506-9000, Fax (256) 582-6923.

www.gvillewater.com

OUR STAFF

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Continuing Our Commitment

Guntersville Water Board is proud to present to you our Annual Water Quality Report for drinking water monitoring completed from January through December 2005. We are pleased to tell you that our compliance with all state and federal drinking water laws remains exemplary. As always, we are committed to ensuring the quality of your water.

Guntersville Water Board
329 Gunter Ave.
Guntersville, AL 35976

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Guntersville Water Board 2005 Annual Water Quality Report



How is My Water Treated and Purified?

Our source water from Browns Creek entering our Sunset Drive surface plant is initially treated with activated carbon for taste and odor control at our raw water station. It is then pumped through an aerator to further oxidize the water for removal of any residual taste and odor. As water enters the rapid mix basin, polymer and a coagulant aid are added along with chlorine for disinfection. Water then flows through our settling basins to our mix media filtration process. After filtration, fluoride is added to promote strong teeth. A poly orthophosphate is added for corrosion control in our mains and reservoirs. Our well at Blount Avenue treats water with an initial application of potassium permanganate for removal of manganese and iron. The well water then is filtered through two 10-foot diameter pressure filters after which chlorine, fluoride, and corrosion inhibitors are added to the finished water. Our certified water operators will be glad to further explain our treatment process in detail. Just give them a call. Thank you for allowing us to continue providing your family with clean, quality water this year. This report will be coming to you annually, and we will be continually upgrading our system to provide the highest water and the best service available.

Source Water Assessment

In compliance with the Alabama Department of Environmental Management (ADEM), Guntersville Water Board has completed a Source Water Assessment plan that will assist in protecting our water sources. This plan provides additional information such as potential contaminants as high, moderate, or non-susceptible to contamination of the water source. Public notification has been completed and the plan has been approved by ADEM. A copy of the report is available in our office for review during normal business hours, or you may purchase a copy upon request for a nominal reproduction fee.



Water Notes

Guntersville relies on surface water from the Tennessee

River Browns Creek embayment on Lake Guntersville at Sunset Treatment Plant and one groundwater well for our drinking water supply. We also purchase water from MUB-Albertville (surface water from Short Creek) to supply to our customers on Sand Mountain. Guntersville Water Board supplies drinking water to the customers of Asbury Water Authority in the Asbury-Martling community.

Number of Customers: Approximately 4200

Storage Capacity: 7 tanks (3,255,000 gals)
120 miles of water mains

We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. For more information regarding this report, or for any questions relating to your drinking water, please call Mr. Jack Swann, General Manager, at 256-582-5931.

Safe Drinking Water Act

The Safe Drinking Water Act (SDWA) was signed into law on December 16, 1974. The purpose of the law is to assure that the nation's water supply systems serving the public meet minimum national standards for the protection of public health. The SDWA directed the U.S. Environmental Protection Agency (EPA) to establish national drinking water standards. The 1996 Amendments to the SDWA created a need for Consumer Confidence Reports (Annual Water Quality Reports) to reveal to consumers the detected amounts of contaminants in their drinking water.



Water Conservation Tips

1. Check all toilets for leaks. Leaks into the overflow pipe and through the flush valve are the most common and wasteful.
2. Hand wash dishes wisely. Wash dishes in soapy water in one sink and rinse in clear water in the other sink.
3. Store drinking water in refrigerator rather than letting the tap run every time you want a cool glass of water.
4. Insulate water pipes. You will get hot water faster plus avoid wasting water while it heats up.
5. Monitor your water meter and check your household, including pools, spas and outdoor spigots for leaks.
6. Here's an easy way to determine if you have any leaks: When you are going to be leaving your home for a few hours, turn off all appliances that would use water, such as ice makers and humidifiers. Note the reading on your water meter and check it when you return. If its changed, there's a leak somewhere.

Automatic Bank Draft

This payment option ensures that the customer will never pay a late penalty. It also eliminates the hassle of writing checks or mailing payments. To sign-up for this program, the customer completes an authorization form which includes their bank name, bank number and signature. Once the authorization form is received, the customer will continue to receive a monthly water bill, however the bill will note "This Bill Paid By Bank Draft". The amount due is electronically deducted from the customer's bank account on the 10th of each month. Please call our office to sign up.

TABLE OF DETECTED DRINKING WATER CONTAMINANTS

Contaminants	Violation Y/N	Level Detected water plant	Level Detected well	MCLG	MCL	Likely Source of Contamination
Turbidity (NTU)	Not Required	0.178* 100%**	N/A	N/A	TT	Soil Runoff
Total Organic Carbon(ppm)	No	3.3***	N/A			Soil Runoff
Copper (ppm)	No	0.233*** 0 Above Action Level	0.233*** 0 Above Action Level	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservative
Fluoride (ppm)	No	.68	1.03	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate (ppm)	No	.31	1.47	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Tetrachloroethylene (ppb)	No	ND	0.75 0.57-0.75	0	5	Discharge from metal degreasing sites and other factories
TTHM [Total trihalomethanes](ppb)	No	Avg. 26.3 Range ND-58.4	Avg. 26.3 Range ND-58.4	0	80	By-product of drinking water chlorination
HAA5 {Total haloacetic acids} (ppb)	No	34.0 Range ND-74.7	34.0 Range ND-74.7	0	60	By-product of drinking water chlorination

Unregulated Contaminants

Chloroform (ppb)	No	28.1 ND-28.1	2.07 ND-2.07	N/A	N/A	Naturally occurring in the environment or as a result of industrial discharge or agricultural runoff
Bromodichloromethane (ppb)	No	4.91 ND-4.91	ND	N/A	N/A	Naturally occurring in the environment or as a result of industrial discharge or agricultural runoff

Secondary Contaminants

Chloride (ppm)	No	9.71	8.68	N/A	250	Naturally occurring in the environment or as a result of industrial discharge or agricultural runoff
Sulfate (ppm)	No	16.4	1.30	N/A	250	Naturally occurring in the environment or as a result of industrial discharge or agricultural runoff
Total Hardness (ppm)	No	76.3	103	N/A	N/A	Naturally occurring in the environment or as a result of industrial discharge or agricultural runoff
Total Dissolved Solids (ppm)	No	Avg. 96.0	1540	N/A	500	Naturally occurring in the environment or as a result of industrial discharge or agricultural runoff

*Highest single measurement

**Percentage of samples <0.5NTU

Highest monthly measurement, range 1.5-2.6 *90th percentile=0.167 ppb and # of sites above action level (1.3 ppm)=0

As you can see by the above table, our system had no violations. We have learned through our monitoring and testing that some constituents have been detected. The EPA has determined that your water IS SAFE at these levels. We are pleased to report that our drinking water is safe and meets federal and state requirements. This report shows our water quality and what it means.

The Guntersville Water Board routinely monitors for constituents in your drinking water according to Federal and State laws. This report contains results from the most recent monitoring which was performed in accordance with the regulatory schedule.

Definitions

In this report you may find many terms and abbreviations with which you might not be familiar. To help you better understand these terms we've provided the following definitions:

Non-Detects (ND) - laboratory analysis indicates that the constituent is not present.

Not Required (NR)- laboratory analysis not required due to waiver granted by the Environmental Protection Agency for the State of Alabama.

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

Parts per billion (ppb) or Micrograms per liter - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Parts per trillion (ppt) or Nanograms per liter (nanograms/l) - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

Parts per quadrillion (ppq) or Picograms per liter (picograms/l) - one part per quadrillion corresponds to one minute in 2,000,000,000 years, or a single penny in \$10,000,000,000,000.

Picocuries per liter (pCi/L) - picocuries per liter is a measure of the radioactivity in water.

Millirems per year (mrem/yr) - measure of radiation absorbed by the body.

Nephelometric Turbidity Unit (NTU)-a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Variations & Exemptions (V & E)- State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

Action Level - the concentration of a contaminant that, if exceeded, triggers treatment or other requirements which a water system must follow.

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

Maximum Contaminant Level - (mandatory language) The Maximum Allowed (MCL) 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.

Maximum Contaminant Level Goal-(mandatory language) The Goal (MCLG) is the level of a contaminant in drinking water below which there is no known or expected health risk to health. MCLGs allow for a margin of safety.

Coliform Absent (ca)- Laboratory analysis indicates that the contaminant is not present.

Disinfection byproducts-are formed when disinfectants used in water treatment plants react with bromide and/or natural organic matter (i.e., decaying vegetation) present in the source water. Different disinfectants produce different types or amounts of disinfection byproducts. Disinfection byproducts for which regulations have been established include trihalomethanes (TTHM), haloacetic acids (HAA5), bromate, and chlorite.

TABLE OF UCMR (Unregulated Contaminants Monitoring Rule) CONTAMINANTS

Contaminants	Violation Y/N	Level Detected	Unit Mmt.	Minimum Reporting Level
2,4-Dinitrotoluene	No	ND	ppb	2
2,6-Dinitrotoluene	No	ND	ppb	2
Acetochlor	No	ND	ppb	0.8
DCPA di-acid degradate	No	ND	ppb	2
DCPA mono-acid degradate	No	ND	ppb	1
4,4'-DDE	No	ND	ppb	1
EPTC (s-ethyl-dipropylthio-carbamate)	No	ND	ppb	1
Molinate	No	ND	ppb	0.9
MTBE (methyl tertiary-butyl ether)	No	ND	ppb	5
Nitrobenzene	No	ND	ppb	10
Perchlorate	No	ND	ppb	4
Terbacil	No	ND	ppb	2

TVA Herbicide Testing Results

Date Sampled	Copper	Date Sampled	Diquat
6-22-04	,0,050 (ND)	6-4-04	<0.002 (ND)
8-5-04	,0,050 (ND)	6-24-04	<0.002 (ND)
8-12-04	,0,050 (ND)	8-5-04	<0.01 (ND)
6-21-2005	,0,050 (ND)	8-4-2005	<0.01 (ND)
7-26-2005	,0,050 (ND)	8-25-2005	<0.01 (ND)
8-4-2005	,0,050 (ND)		
8-25-2005	,0,050 (ND)		

Monitoring Schedule

Guntersville Water Board routinely monitors for constituents in your drinking water according to Federal and State laws. We are pleased to report that during the past year, the water delivered to your home or business complied with or exceeded all state and federal drinking water regulations. The state requires us to monitor for certain substances less than once per year because the concentrations of these substances do not change frequently; therefore, in these cases the most recent sample data are included. This report contains results from the most recent monitoring which was performed in accordance with the regulatory schedule.

TVA is conducting a herbicide spraying program on Guntersville Lake to help control aquatic weeds. For the year 2004 (see TVA chart) no contaminants were found at detectable limits.

As you can see by the Table of Detected Drinking Water Contaminants, our system had no violations. We have learned through our monitoring and testing that some constituents have been detected. We are pleased to report that our drinking water is safe and meets federal and state requirements. This report shows our water quality and what it means.

Constituent Monitored

Date Monitored

Inorganic Contaminants	2005
Lead/Copper	2004
Microbiological Contaminants	2005
Nitrates	2005
Radioactive Contaminants	2003
Synthetic Organic Contaminants (including pesticides and herbicides)	2002
Volatile Organic Contaminants	2003
Disinfection By-products	2005
UCMR (Unregulated Contaminants Monitoring Rule) Contaminants	2003