



S.C. American Water Works Association



"Over 100 Years"
Fred H. Boatwright
Manager



Partnership for Safe Water

HOW TO CONTACT US:

Please call the Water Division:

Phone: 803-268-4404

Fax: 803-531-3803

Or visit our website at:

www.orbgdpu.com

Department of Public Utilities

City of Orangeburg

PO Box 1057

Orangeburg, South Carolina 29116

Este reporte contiene informacion acerca de suga potable. Si usted desea copia de este reporte en espanol, favor de llamar a Servivio del Cliente at 268-4000

The water supplied to you by YOUR Department of Public Utilities meets and exceeds all drinking water requirements

A TRIBUTE TO MR. ALAN Mc.C. JOHNSTONE



MR. ALAN Mc.C. JOHNSTONE POSITIVELY IMPACTED THE DEPARTMENT OF PUBLIC UTILITIES FOR OVER FOUR DECADES. THE DPU CONTINUES TO BE SUCCESSFUL TODAY BECAUSE OF HIS VISIONARY LEADERSHIP. HIS CAREER BEGAN IN 1937 AT THE WATER TREATMENT PLANT. IN 1956, MR JOHNSTONE BECAME THE MANAGER OF THE ENTIRE DEPARTMENT OF PUBLIC UTILITIES SERVING UNTIL HIS RETIREMENT IN 1977. DURING THIS PERIOD, HE GUIDED THE UTILITY THROUGH UNPRECEDENTED GROWTH. THE NUMBER OF CUSTOMERS INCREASED DRAMATICALLY. WATER AND ELECTRICITY SERVICES EXPANDED INTO THE RURAL AREAS. THE ADDITION OF NATURAL GAS AND WASTEWATER SERVICES SOON FOLLOWED. MR. JOHNSTONE PROMOTED A MORE DIVERSE ECONOMY WITH A BALANCE OF AGRICULTURE AND INDUSTRY. THE DPU AND SURROUNDING COMMUNITIES HAVE CONTINUED TO GROW BECAUSE OF HIS SIGNIFICANT CONTRIBUTIONS AND CONCERN FOR ORANGEBURG'S WELFARE AND DEVELOPMENT.

Getting to Know Your DPU Water Crew



Once again, we are proud to present to you our annual water quality report. We have dedicated ourselves to producing drinking water that meets or exceeds all state and federal drinking water standards. We are able to accomplish this goal by working together as a team. Our team consists of three key areas of expertise: administrative, treatment, and distribution. All must function well together to be successful. Our administrative team works with customers, engineers, regulators, developers, and city and county representatives to promote water services within the community. Water treatment plant personnel ensure that Orangeburg's drinking water meets and exceeds all regulatory guidelines. Once the water is treated and stored, the distribution team ensures that the water is delivered to homes, schools, businesses and industries twenty-four hours per day with the same high quality standards that our customers have come to expect. As you can see, we are all dedicated to providing the highest quality service we can achieve. We look forward to serving the Orangeburg area for many years to come.



2005 WATER QUALITY DATA

	SUBSTANCE	NUMBER OF TESTS	MCL	MCLG	DETECTED LEVEL	RANGE	MAJOR SOURCES	MEETS EPA STANDARDS
INORGANICS	FLUORIDE (AS TESTED BY DHEC) (PPM)	1	4	4	0.15	N/A	WATER ADDITIVE WHICH PROMOTES STRONG TEETH	YES
	FLUORIDE (AS TESTED BY OUR CERTIFIED LABORATORY) (PPM)	730	4	4	0.82	0.23 - 1.27	WATER ADDITIVE WHICH PROMOTES STRONG TEETH	YES
	NITRATE (PPM)	1	10	10	0.27	N/A	RUNOFF FROM FERTILIZER USE	YES
VOLATILE ORGANICS	TOTAL TRIHALOMETHANES (PPB)	8	80	0	RAA= 15	10-21	BYPRODUCTS OF DRINKING WATER CHLORINATION	YES
	HALOACETIC ACIDS (PPB)	8	60	0	RAA= 32	16-46	BYPRODUCTS OF DRINKING WATER CHLORINATION	YES
MICROBIOLOGICAL	FECAL COLIFORM / E.COLI (P/A)	1752		0	0	N/A	HUMAN AND ANIMAL FECAL WASTE	YES
	TOTAL COLIFORM (P/A)	1752		0	<0.1%	N/A	NATURALLY PRESENT IN THE ENVIRONMENT	YES
	TURBIDITY (NTU)	2907		0	0.08 100%	.04 - .16 100%	SOIL RUNOFF	YES
DISINFECTION BYPRODUCTS	RESIDUAL CHLORINE (PPM)	1002	MRDL= 4.0	MRDL= 4.0	2.33	1.70 - 2.64	WATER ADDITIVE USED TO CONTROL MICROBES	YES
	TOTAL ORGANIC CARBON (PPM)	12	TT	REQUIRED % = 46.25%	ACTUAL PERCENT REMOVAL = 66.08%	ACTUAL PERCENT REMOVAL RANGE = 52.6% - 72.9%	NATURALLY PRESENT IN THE ENVIRONMENT	YES
LEAD & COPPER	LEAD (PPB)	30	AL= 15	0	3.8	NO. OF SITES ABOVE THE ACTION LEVEL 0 SAMPLES OUT OF 30	CORROSION OF HOUSEHOLD PLUMBING SYSTEMS	YES
	COPPER (PPM)	30	AL = 1.3	0	2.7	0 SAMPLES OUT OF 30	CORROSION OF HOUSEHOLD PLUMBING SYSTEMS	YES

KEY TO TABLE

P/A = PRESENCE/ABSENCE
 NTU = NEPHELOMETRIC TURBIDITY UNIT
 THMs = TOTAL TRIHALOMETHANES
 PPM = PARTS PER MILLION
 PPB = PARTS PER BILLION
 MCL = MAXIMUM CONTAMINANT LEVEL
 MCLG = MAXIMUM CONTAMINANT LEVEL GOAL
 N/A = NOT APPLICABLE
 RAA = RUNNING ANNUAL AVERAGE
 MRDL = MAXIMUM RESIDUAL DISINFECTION LIMIT

HOW DO I READ THIS TABLE?

THE TABLE CONTAINS THE NAME OF EACH SUBSTANCE, THE HIGHEST LEVEL ALLOWED BY REGULATION (MCL), THE IDEAL GOALS FOR PUBLIC HEALTH (MCLG), THE AMOUNT DETECTED, THE USUAL SOURCES OF SUCH SUBSTANCES, AND A KEY TO UNITS OF MEASUREMENT.
MAXIMUM CONTAMINANT LEVEL OR 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 OR 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.
ACTION LEVEL (AL): THE CONCENTRATION OF A CONTAMINANT WHICH, IF EXCEEDED, TRIGGERS TREATMENT OR OTHER REQUIREMENTS THAT A WATER SYSTEM MUST FOLLOW.
TREATMENT TECHNIQUE (TT): A REQUIRED PROCESS INTENDED TO REDUCE THE LEVEL OF A CONTAMINANT IN DRINKING WATER.

Important Educational Information About Your Drinking Water

WHERE DOES MY WATER COME FROM?

The Department of Public Utilities obtains its raw water from the North Fork Edisto River. The high quality and abundant quantity provides for future community and economic development. Our water treatment plant processes an average of 8 million gallons per day (MGD) and has the capability to treat 19 MGD.



Special Concerns

Some people may be more vulnerable to the 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 provider. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* are available from the Safe Drinking Water Hotline (800-426-4791)

WATER SYSTEM

Source: North Fork Edisto River
 Number of Services: >21,000
 Population Served: > 60,000
 Distribution Pipe: 500 Miles
 Fire Hydrants: > 1,500



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, or wildlife.
Inorganic Contaminants, such as salts and metals, which can be naturally occurring may result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
Pesticide and Herbicides, which may come from a variety of sources such as agricultural, 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 may also come from gas stations, urban stormwater runoff and septic systems.
Radioactive Contaminants, which can be naturally occurring or may be the result of oil and gas production and mining activities.

SINCE 1993, THE DEPARTMENT OF PUBLIC UTILITIES HAS SAMPLED ONCE A QUARTER FOR *GIARDIA* AND *CRYPTOSPORIDIUM* USING CURRENT ANALYTICAL METHODS. THESE ORGANISMS HAVE NEVER BEEN DETECTED IN OUR FINISHED WATER.

Why are there contaminants in the water ???

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 the water poses a health risk.** The sources of drinking water (both tap 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 radioactive material, and can pick up substances resulting from the presence of animals or human activity. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline (800-426-4791)

A SOURCE WATER ASSESSMENT WAS PERFORMED BY SCDHEC AND RESULTS ARE AVAILABLE BY VISITING THE WEB SITE WWW.SCDHEC.NET/EQC/WATER.HTML/SRCEWTR.HTML OR BY CALLING MR. YANDLE AT 803-268-4404

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.