violation was reported to ADEM and in 2012 a public notification was sent to all water customers. requirements exiting the plant. The failure to monitor basis. At no time did the maximum level exceed the contractor. Chlorite was monitored at the plant on a daily chlorine dioxide, on a trial basis. The required monthly distribution system. The plant was feeding a new chemical, 2011. The problem occurred in the Jerry Plott Plant distribution sampling for chlorite was not performed by our The City of Tuscaloosa had a failure to monitor violation in

included in this year's CCR. and noted in the City's monthly report to the state, and are requirements exiting the plant. The values were recorded occurred. At no time did the maximum_level exceed the ADEM determined that no regulatory violations had corrected itself. The spikes were reported to ADEM immediately cut off from the system while the problem turbidities that were over the limit of 0.3 NTU. The high readings were only momentary. Each filter was In December, 2012, the Ed Love Plant had four spiked filter

WHAT IS THE SOURCE OF OUR DRINKING WATER?

a 5,885-acre impoundment of North River and several major creeks. This beautiful man-made lake holds more than 40 water supply source for drinking water. Lake Tuscaloosa is Harris Lake is used for industrial water. Harris Lake are our alternate sources of water. Currently billion gallons of excellent quality water. Lake Nicol and Lake Tuscaloosa is Tuscaloosa's primary surface

Water & Sewer Department's Office at 2201 University copy of the data may be viewed at the City of Tuscaloosa Source Water Assessment and has published the data. A The City of Tuscaloosa has completed the required

large portion of three counties. Every activity in the watershed has an impact on the quality of our drinking water Lake Tuscaloosa's watershed is comprised of a

WHAT CAN I DO TO PROTECT OUR SOURCE OF DRINKING WATER?

call (205) 349-0279 or visit the City's website at Davison will announce these dates. For more information www.tuscaloosa.com Watershed Festival and the fifth annual Lake Cleanup Day. These events are usually scheduled for May. The Lakes The Lakes Division is planning a second annual

WHAT TREATMENT TECHNIQUES ARE USED TO TREAT MY WATER?

was named after former city councilman Jerry Plott. Both for former superintendent Ed E. Love. The Jerry Plott Plant Water Treatment Plant. The Ed Love Water Plant was named plants. These are the Ed Love Water Plant, and the Jerry Plot plants treat water from a common intake structure at Lake The City of Tuscaloosa operates two water treatmen

taste and odor control. The water then travels through four lime are added for coagulation. Sodium permanganate is Raw water enters a flash mixer where aluminum sulfate and flocculators and four settling basins. added when necessary for removal of iron and manganese for The Ed Love facility is a conventional treatment plant

polyphosphate is added for corrosion control. The finished water is pumped into the Distribution System. added for the prevention of tooth decay, and ortho-Sodium hypochlorite is added for disinfection. Fluoride is filters. Lime is added for pH adjustment and corrosion control The water is then gravity filtered through multi-media

of two flocculators, it enters a settling basin. The plant has two basins. Settling is accelerated with a series of settling plates chemicals and techniques. Coagulation starts in a flash mixer with poly aluminum chloride. As the water passes through one treatment as the Ed Love Plant, but with some different The Jerry Plott Water Plant uses the same basic

goes to the distribution system. The water produced at these orthopolyphosphate are also added. The finished water then Sodium hydroxide is added for pH control. Fluoride and wo plants is very similar. pores of the membranes while impurities are left behind seven membrane filters. The water is squeezed through the The settled water is pumped under pressure to a bank of

water possible for more than 200,000 consumers. The plants are operated 24 hours a day, 365 days a year. These employees are responsible for the highest quality The plants are maintained by 37 full-time employees

numerous industries and businesses have selected excellent quality water! Because of this excellent quality fuscaloosa as their home. The City's most valuable asset is its abundant supply of

Public Fire Hydrants3265 Hydrants	Jerry Plott Treatment Capacity14 Million Gallons/Day	Ed Love Treatment Capacity45.7 Million Gallons/Day	Water Storage Capacity25.4 Million Gallons	Water Booster Pump Stations8 Stations	Water Storage Tanks13 Tanks	Water Mains in Service, 4" and larger	
3265 Hydrants	Million Gallons/Day	Million Gallons/Day	.25.4 Million Gallons	8 Stations	13 Tanks	594 Miles	

WATER AND SEWER DEPARTMENT

Jimmy W. Junkin, Director Tuscaloosa, AL 35403-2090 Post Office Box 2090

may call (205) 248-5010. for each meeting is published in the Tuscaloosa News on Saturday and on the internet at www.tuscaloosa.com, or you floor of Tuscaloosa City Hall, 2201 University Blvd. The agenda Tuesday at 6:00 pm in the City Council Chambers on the second The Tuscaloosa City Council Meetings are held every

The City of Tuscaloosa's Mayor and Council are as follows: Mayor, Walt Maddox

William Tinker, III, District 7 Cynthia Almond, District 3 Harrison Taylor, District 2 Bobby Howard, District 1 Bob Lundell, District 6 Lee Garrison, District 4 Kip Tyner, District 5

Drive Though Hours Water Billing Office Turn On/Turn Off 8:00 am - 4:30 pm Monday - Friday (205) 248-5500 Office Hours:

7:00 am - 3:30 pm

Monday - Friday

(205) 349-0279

Source Division

Lakes Division Office Hours:

Distribution Division Line Breaks/Leaks 7:30 am - 5:00 pm

_akes Division Manage

Scott Sanderford

filliard N. Fletcher Wastewater Plant 7:00 am - 3:30 pm Office Hours:

7:00 am - 3:30 pm

Office Hours:

Monday - Friday (205) 248-5950

Jerry Plott Water Plant Monday - Friday (205) 248-5900

2101 New Watermelon Road

(205) 248-5600



For the third year in a row, the AWPCA's Best Operated Plant Award for a Membrane Plant was given to the Jerry Plott Water Treatment Plant Threepeats Jerry Plott Filtration Plant.



CITY OF TUSCALOOSA WATER AND SEWER DEPARTMENT

ANNUAL WATER QUALITY REPORT



1125 Jack Warner Parkway North East Tuscaloosa, Alabama 35404-1056 Ed Love Water Filtration Plant Telephone (205) 248-5630 http://www.tuscaloosa.com Fax (205) 349-0213 City of Tuscaloosa

7:00 a.m. to 3:30 p.m Monday - Friday Office Hours:

Water Treatment Manager Additional Information: Perry A. Acklin

THE SAFE DRINKING WATER ACT... What Does It Mean For You?

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. 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 EPA Safe Drinking Water Hotline 800-426-4791 or EPA's website address www.epa.gov/safewater.

Amended in 1996, the SDWA contains provisions for consumer involvement and right-to-know. The Consumer Confidence Report or Annual Water Quality Report is the centerpiece of public right-to-know in SDWA. This report provides consumers the detected amounts of contaminants, sources of contamination, and plain language definitions.

The amendments recognized that some people may be more vulnerable to contaminants in drinking water than the general population. People who are immuno-compromised such as cancer patients undergoing chemotherapy, organ transplant recipients, HIV/AIDS positive or other immune system disorders, some elderly, and infants can be particularly at risk from infections. People at risk should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidum and other microbial contaminants are available from the Safe Drinking Water Hotline 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 radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

PLAIN LANGUAGE DEFINITIONS

- 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.
- 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 Residual Disinfectant Level Goal or MRDLG: The level of a drinking water disinfectant below which there is no known or expected risk to health: MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

PLAIN LANGUAGE DEFINITIONS continued

- Maximum Residual Disinfectant Level or MRDL: The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- Treatment Technique or TT: A required process intended to reduce the level of a contaminant in drinking water.
- <u>Action Level or AL</u>: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

In the following tables you may find terms and abbreviations that might not be familiar to you. To help you better understand these terms we have provided the following definitions. ppm means parts per million and is equal to mg/L or

milligrams per liter ppb means parts per billion and is equal to µg/L or

micrograms per liter ppt means parts per trillion and is equal to ng/L or nanograms per liter

Total

pCi/L equals picocuries per liter, a measure of radiation NTU equals Nephelometric Turbidity Units CFU equals Colony Forming Units

MFL means million fibers per liter longer than 10 micrometers

N/A - not applicable - ND - not detected

Based on a study conducted by ADEM with the approval of the EPA, a statewide waiver for the monitoring of asbestos and dioxin was issued. Thus, monitoring for these contaminants was not required.

EPA Lead and Copper Statement

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The City of Tuscaloosa is responsible for providing high quality drinking water, but cannot control the variety of materials used in the plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned with lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the S af e D r in k in g W at er H ot I in e or a thitp://www.epa.gov/safewater/lead.

Total

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Tuscaloosa's Lead and Copper Program

Since 1991, the City of Tuscaloosa has tested 57 homes annually for the presence of lead and copper. Because of the involvement of these citizens, the lead and copper program continues to be very successful. The City has always maintained compliance with this regulation. We would like to commend those 57 participants for their support of this endeavor.

WATER QUALITY REPORT PRIMARY DRINKING WATER PARAMETERS WATER SOURCE LAKE TUSCALOOSA

DETECTED CONTAMINANTS MIGROBIOLOGICAL All results meet or surpass Federal Drinking Water Regulations Covered: 12 Units MCL MCLG In Projection Advances from the project of surpass of whole seed in Contamination of the Code of the C

ie sum of Chloroform, Bromodichioromethane, Dibromochloromethane & Bromoform annual average MCL	S Briter	ochloromen	nethare, Utronic	orometh	HODICH	m, eroi	ie sum of Chlorofor
chlorination	8	27 1 - 81.3	51.1	NA	8	1gh	i Trihakomethanes µg/L
By-product of drinking water		1.					
	an 80 (to or less th	annual average MCL equal to or less than 60 µg/l	average	annual		
The sum of Dibromoacetic, Dichleroacetic, Monobromoacetic, Monochloroacetic, & Trichloroacetic Acids	TOCKNOR.	acetic, Moi	MONODYCE	oacetic,	Diche	pacetic	he sum of Dibrom
chiorination	8	16:7-42.9	29.4	N.	8	M	sacetic Acids
By-product of drinking water							
Major Sources in Drinking Water	(Tess stay)	-	System	MCLG	ř	Units	December, 2012
	Table-Scott	Range of	in Distribution				Months Ending
	-		Average ave				eriod Covered: 12
DISINFECTION BY-PRODUCTS All results meet or surpass Federal Drinking Water Regulations	Water		or surpass Federal Drinking W.	A OF SUIT	its me	II resu	
Erosion of natural deposits.	No	18.5 - 36.1	88	50	50	mg/L	ate as SO ₄
ratural deposits	8	0.26 -0.29	0.29	ö	10	mg/L	ate as NO3 "-N
TOWN SECTION SERVICE USE, LEAGUING							
SPECIAL PROPERTY AND ADDRESS OF THE PERSON NAMED AND ADDRESS O		2000	1.22	4	4	1.69.1	
Discharge from fertilizers and	5	000	3	>.	liv.	3	Mark Mark
additive which promotes strong teeth							
Eroson or national disposits, whiteir		-	-				
INORGANIC CHEMICALS All results meet or surpass Federal Drinking Water Regulations	Water		MORGANIC CHEMICALS	et or Sur	its me	W resu	
Erosion of natural deposits	8	0.04.0.0	6.0 ->+ 6.0	0	15	pC//L	ss Alpha
		00408					
RADIOLOGICAL All results meet or surpass Federal Drinking Water Regulations	Water	OGICAL eral Drinking	RADIOLO pass Feder	et or sur	its me	lli resu	
Water additive used to control microfree	8	02-32	33 22	45.	4	ng/L	orine as Cl ₂
with disinfection	Š	0.419	0.419	N/A	0,3	3	bidity
Sall Runoff -Turbidity can interfer		0.020 -					
environment	8	12-21	15.0	NIA	=1	Tygn	si Organic Carbon
Naturally present in the		A-80/1810A-5	***************************************	*,***********		,,,,,,,,,,	
18 y 4 Ur 2002 samples were positive for Lotal Collottin of U. 15%, In 2012, two samples were Ecoli positive.	n 2012	OF U. 16%, 1	MACHION REP	1 101 BA	e poss	88.88	THE ZOCY IN A KILL

Thus

	All resu	ts me	et or sur	s meet or surpass Federal Drinking Water Reg	al Drinking	Water	All results meet or surpass Federal Drinking Water Regulations
Perind Covered: 12							the tenths of the particular of
Months Ending				In Distribution	Parion of		
December, 2012	Cinit	HCL.	10 CE	System	detections	(Yes/ Ho)	Major Sources in Drinking Water
anno i encomendo annice anice accesso de capa api pero	1	Al=			40.005		Control of house designation of the control of the
į		,					converse Statestary house to see to see to
Lead as Pb	mg/iL	0.015	0	9.009	0.009	8	Erosion of natural deposits
		₽.			~0.050.		Contract of househood plumbing system, Expsion of headers deposite I wastered from word
Copper as Cu	7,0m	ش	i.i.s	.0.303	0.330	8	preservatives
There were no violation	ins, mor	e than	90% of s	ampies were	below the	action	There were no violations, more than 90% of samples were below the action level. Only one lead result and only
		one	copper re	one copper result were above the action level	bove the ac	tion lev	
			0	ORGANIC CHEMICALS	EMICALS		
			UNREG	UNREGULATED CONTAMINANTS	ONTAININA	NTS	
	All resu	its me	et or sur	pass Feder	al Drinking	Water	All results meet or surpass Federal Drinking Water Regulations
Period Covered: 12				Highest Level			gridden gan o'r g
Months Ending				in Distribution.	Range of	Уюн-поп	
December, 2912	Units	EC.	MCLG	System	detections	(Year No.)	Major Sources in Drinking Water
Bromodichlaro-							By-Product of drinking water
methane	J/Q/L	WA	N/A	6.80	1.62-6.80	8	chlorination
					1.79		By-Product of drinking water
Chloroform	1.gr	P.	AWA	142	14.2	8	chometon
Dipromochioro-					8.72-		By-Product of drinking water
			4/14	ji d	275	5	chloringtion

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WATER QUALITY REPORT

TABLE OF PRIMARY DRINKING WATER PARAMETERS MONTORING PERIOD ENDING DECEMBER 2012
WATER SOURCE LAKE TUSCALOOSA

	-	- Militar	-	
Analyte	5	Level Detected	Analyte	<u> </u>
Total Colform Bacteria	<u> </u>	99%	Beta / Photon Emitters	4 mem/yd
Turbiday	<0.3 NTU	0.288	Alpha Emitters	
BIORGANIC	CHEMICALS		Combined Radium	5 50%
	900	8	Uanum.	30 ppb
Arsenic as As	10 ppb	8	ORGANIC CI	
Asbestos*	7 MLF	35	Endin	2 ppb)
Barum as Sa	2 ppm	3	Epichlorohydián	=
Beryllium as Be	4 000	8	Gyphosate	700 ppb
Cadmium as Cd	5 ppb	8	Heptachlor	400 ppb
Chromium as Cr	100 ppb	5	Heptachlor epoxide	200 ppt
Copper as Cu	AL=1.3ppm	3	Hexachlorobenzene	í ppb
Cyanide as Cn	200 ppb	8	Hexachurocyclopertaclere	50 ppb
Fluoride as F	4 ppm	8	Lindane	200 ppt
Lead as Pb	AL=15 ppb	3	Methoxychior	40 ppb
Wercury as Hg	2 ppb	8	Oxamyl (Vydate)	200 ppb
Mirate as NO3-N	10 ppm	8	PCB's	500 ppt
Nimite as NO2-N	f ppm	8	Pentachlorophenol	1 ppb
Selenium as Se	50 ppb	18	Picioram	500 ppb
Thallium as 11	2 ppb	3	Simazine	4 ppb
A La Majing Miles	- 1) Usalis isi isi	ndde
Cilcianines	4 00m	8	Carbon tetrachloride	5 800
Chlorite	1 ppm	8	Chlorobenzene	100 ppb
Chlorine Dioxide	900 ppb	8	Dibromochioropropane	200 ppt
Bromate	(dqq 0)	8	o-Dichlorobenzene	600 ppb
Total Organic Carbon		25	p-Dichlorobenzene	75 ppb
Total Trihalomathanes	80 pp	96.7	1,2-Dichloroethane	5 ppb
Haloacetic Acids	60 ppb	68.7	1,1-Dichloroethylene	7 ppb
ORGANIC CHEMICALS	HEMICALS		cis-1,2-Dichloroethylene	70 ppb
2,4-0	70 ppb	8	trans-1,2 Dichloroethylene	100 ppb
2,4,5-TP(Silvex)	50 ppb	8	Dichloromethane	5 ppb
Acrylamide		8	1,2-Dichloropropare	5 ppb
Alachio	2 ppb	8	Ethylbenzene	700 ppb
Atrazine	3 ppb	8	Ethylene dibromide	50 ppt
Benzo(A)pyrene	200 ppb	3	Styrene	100 ppb
Carbofuran	40 ppb	8	Tetrachioroethylene	5 ppb
Chlordane	2 ppb	85	1,2,4-Trichlorobenzene	70 ppb
Dalapon	200 ppb	8	1,1,1-Trichloroethane	200 ppb
Dl(2-ethylhexyl)adipate	400 ppb	8	1,1,2-Trichloroethane	5 ppb
Di(2-ethylhexy/jphthalates	6 ppb	8	Trichloroethylene	5 ppb
Dinoseb	7 ppb	8	Toluene	1 ppm
Diquat	20 ppb	8	Vinyi Chloride	2 ppb
Diaxin(2,3,7,8-TCDD) *	30 ppq	8	Xylenes	10 ppm
Endothall	100 ppb	8		
designation of the control of the co				

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