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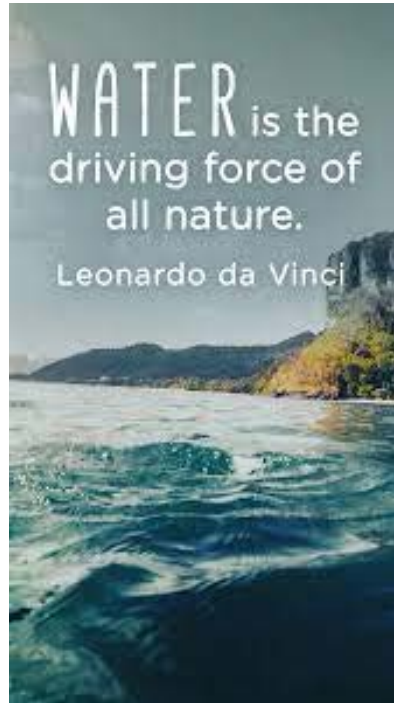
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2020 Annual Water Quality Report



Central Elmore Water And Sewer Authority 2020 Annual Water Quality Report

PWS # 000547

Safety and security have always been our top priorities. Central Elmore Water and Sewer Authority strives to deliver safe drinking water to our customers and to keep the utility secure and protected. The Source Water Assessment was updated in 2018 and no problems were found. It is continually monitored and can be viewed at the main office. We are proud to deliver this annual report covering the year 2020.

Central Elmore Water & Sewer Authority maintains and operates a 12-million gallon per day surface water treatment plant at our primary water source on Lake Martin. Here at Central Elmore Water & Sewer Authority we serve approximately 12,611 customers of our own along with four fulltime neighboring utilities, Rockford (1,301 customers), Friendship (1,400 customers), Eclectic (1,631 customers), and Wetumpka (3,500 customers). Each customer refers to a meter served, which translates into approximately 61,329 persons served by Central Elmore Water & Sewer Authority.

Our territory covers approximately 350 square miles out of the 657 square miles contained in Elmore County. We currently maintain over 750 miles of water lines in our territory along with 12 water storage facilities holding a total of almost 7.7 million gallons.

Board of Directors

Bill Newton – Chairman

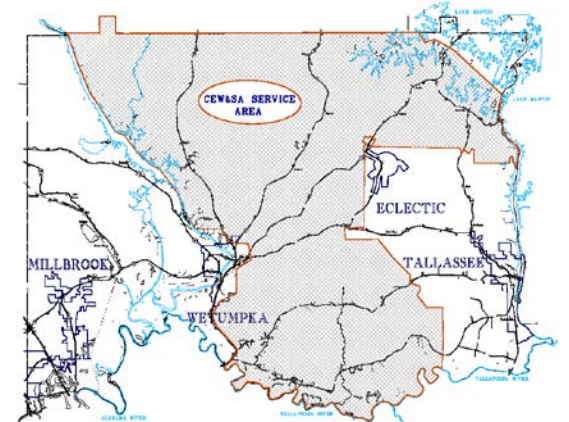
Ron Johnson – Vice-Chairman

Fred Braswell – Director

Chad Shaw – Interim General Manager

Tina Stanley – Secretary

PRESENTED TO OUR CUSTOMERS BY:



A Message from Our Main Office

I am privileged to present to you our Annual Water Quality Report. This report is an overview of last year's water quality. We are committed to providing you with the enclosed information because informed customers are our best allies. The report has been prepared to meet the requirements of the 1996 Safe Drinking Water Act (SDWA) adopted by Congress and to provide our customers with information about their water system. The changing environment of the water industry has continued to keep our Staff focused on the future needs of the system as well as watching the bottom line.

The water provided to you by Central Elmore Water & Sewer Authority (CEW&SA) once again meets or exceeds all state and federal water quality regulations. We are pleased to inform you that CEW&SA has never had a violation of contamination levels in the water we supply you, our valued customers.

During 2020, CEW&SA experienced continued growth with the strengthened economy. We've seen many new developments, subdivisions and families moving into our service territory. The vision of our Board, Management and Staff has always been to stand prepared for any influx into our county. The goal of CEW&SA is to provide customers with a safe, reliable supply of drinking water that can be used with assurance at the lowest possible cost while maintaining the highest quality.

During these uncharted times dealing with the Coronavirus (COVID-19) pandemic, our valued customers may have questions about the safety and continued availability of drinking water. We at CEW&SA understand this is a stressful time for our community and for the households we serve. Please know that we are here for you and are committed to taking all steps necessary to maintain safe, reliable water service.

You can continue normal use of tap water. The U.S. Environmental Protection Agency (EPA) recommends that Americans continue to use and drink tap water as usual. COVID-19 has NOT been detected in drinking water supplies. According to the U.S. Centers for Disease Control and Prevention (CDC): "Conventional water treatment methods that use filtration and disinfection, such as those in most

municipal drinking water systems, should remove or inactivate the virus that causes COVID-19." The World Health Organization adds that the "presence of the COVID-19 virus has not been detected in drinking-water supplies and based on current evidence the risk to water supplies is low." We have staff and infrastructure in place to maintain water service around the clock. Rest assured we will continue to carefully monitor this situation and provide you with any appropriate information that might affect you as a CEW&SA customer.

I encourage you to take the time to read this report. If you have any questions concerning this report or CEW&SA, please contact me, Chad Shaw, at 334-567-6814, Monday - Friday, 7:30 a.m. to 4:30 p.m. and I will be glad to address any concerns you may have. Regularly scheduled Board meetings are held at 12:00 p.m. on the third Tuesday of each month at the main office located at 716 US Hwy 231, in Wetumpka. CEW&SA Board members are as follows: Chairman – Bill Newton, Vice-Chairman – Ron Johnson and Director – Fred Braswell. Again, please feel free to contact me with any questions or concerns you may have involving Central Elmore Water and Sewer Authority.

Sincerely,
Chad Shaw, P.E.

Happening at the Plant...

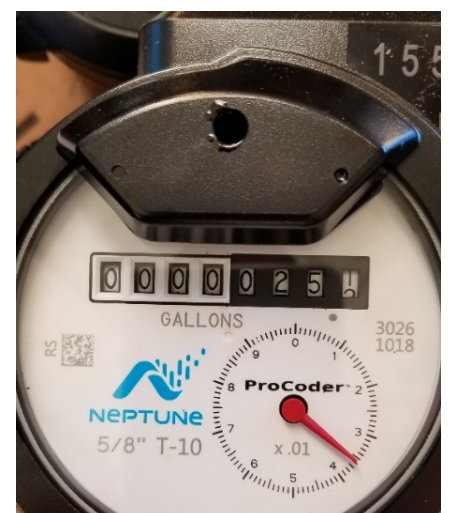
Every year brings new challenges with it and 2020 has been a very challenging year in respects to the pandemic. I am proud to report that we have continued to provide our customers with clean, safe drinking water that meets or exceeds regulatory standards. We also wanted to give and update on the seasonal issue of taste and odor that some of our customers experience. Since first occurring in 2013 the Authority has implemented several treatment strategies to mitigate taste and odor. Some have worked better than others but none have solved the problem completely. The Authority has continued to look at other treatment options based on efficacy and costs. In the end CEW&SA wants to produce the highest quality water possible while being monetarily responsible. Also, we want to remind our customers that the water has always been safe to drink. Taste and odor are not a public health concern. Please take the time to read the report and if you have any questions, I can be contacted at 334-512-0480.

Sincerely,
Patrick Morgan- Plant Manager

System Flushing

You may on occasions see hydrants that flush slowly for several days. Any time there is a leak air enters the mains. This air must be removed and flushing slowly at certain locations relieves the mains of the air. Air can cause the water to be milky, but it is safe to drink. There are also times when we must flush for ADEM requirements. We usually try to have a small yellow sign on the hydrant while flushing. Call us at the office if you suspect the hydrant is flowing unintentionally. **If you see someone filling anything from a hydrant call the office immediately.** Thank you.

Reading Your Meter



5/8" Meters – This is the standard meter for residential customers. Note the last digit is 1/10 of a gallon. It reads 0000025.1 gallons. CEW&SA reads all the white numbers and one black number for billing. These new meters read very similar to the old meters. 5/8", 3/4", and 1" meters read the same way. The red needle is the leak indicator. 1 full rotation = 0.1 gallon of water. The 10-digit meter number is on the top right of the meter starting with 155 or 156. Visit www.cewsa.com for more information. You have to flip the black lid up to read meter face. The black knob does not turn off meter or turn pressure up or down.

Notice: Please make sure your contact information is updated at the office. If we find a leak on your service line, we will make an attempt to contact you.



Special Health Information:

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 microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791)

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 water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline.

General Information about Drinking Water Contaminants:

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 and mining activities.

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. CEW&SA is responsible for providing high quality drinking water but cannot control the variety of materials used in 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 the water for drinking or cooking. If you are concerned about lead in your water, you may want 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 Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

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 any of these contaminants was not required.

Definitions:

Maximum Contaminant Level (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 (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.

90th Percentile: 90% of samples are equal to or less than the number in the chart.

Maximum Residual Disinfectant Level Goal (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.

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. NA: Not applicable.

ND: Not detectable at testing limits.

PPB or parts per billion: micrograms per liter (ug/l).

PPM or parts per million: milligrams per liter (mg/l).

Action Level or AL: The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements, which a water system must follow.

Treatment Technique or TT: A required process intended to reduce the level of a contaminant in drinking water.

NTU or Nephelometric Turbidity Units: A measure of clarity.

Table of Detected Contaminants (2020)						
CONTAMINANT	MCLG	MCL	Units	CEWSA		Likely Source of Contamination
Bacteriological			Jan 1, 2020- Dec 31, 2020		Highest Detected	Range of Detected
Total Coliform Bacteria	NA	< 5%	Present or Absent	Coliform Absent	Coliform Absent	Naturally present in the environment
Turbidity	NA	TT	NTU	0.09	.016 - .090	Soil runoff
Radiological			Jan 1, 2020- Dec 31, 2020		Highest Detected	Range of Detected
Radium 228	NA	15	PCI/L	ND	ND	Erosion of natural products
Inorganic Chemicals			Jan 1, 2020- Dec 31, 2020		Highest Detected	Range of Detected
Copper	1.3	AL=1.3	ppm	.130= (90th) Percentile	Zero sites above action	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead	0	AL=.015	ppm	.0004= (90th) Percentile	Zero sites above action	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Fluoride	4	4	ppm	0.76	0.76	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrite	1	1	ppm	ND	ND	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Nitrate	10	10	ppm	0.097	0.097	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Barium	2	2	ppm	0.012	0.012	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Antimony	0.001	0.001	ppm	ND	ND	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Arsenic	0	0.001	ppm	ND	ND	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes
Organic Chemicals			Jan 1, 2020- Dec 31, 2020		Highest Detected	Range of Detected
TTHM	NA	0.08	ppm	0.037	.023 - .037	By-product of drinking water chlorination
Haloacetic Acid	NA	0.06	ppm	0.024	.019-.024	By-product of drinking water chlorination
Total Organic Carbon (TOC)	NA	TT	ppm	2.13	.95 - 2.13	Naturally present in the environment
Chlorine Dioxide	0	0.80	ppm	0.43	.06 - .43	Water additive used to control microbes
Chlorite	0	1.00	ppm	0.95	.34 - .95	By-product of drinking water disinfectant
Xylenes	10	10	ppm	ND	ND	Discharge from petroleum factories; Discharge from chemical factories

Table of Primary Contaminants (2020)					
At high levels some primary contaminants are known to pose a health risk to humans. This table provides a glance of any primary contaminant detections. ADEM now requires us to place all that are tested for on here even though most were not detected. ND = NOT DETECTED					
CONTAMINANT	MCL	AMOUNT DETECTED	CONTAMINANT	MCL	AMOUNT DETECTED
Bacteriological			Endothall	100	ND
Total Coliform Bacteria	< 5%	0	Endrin	2	ND
Total Carbon (TOC)	TT	2.13	Epichlorohydrin	TT	ND
Turbidity	TT	0.090	Glyphosate	700	ND
Radiological			Haloacetic Acid(ppm)	0.06	0.024
Beta/photon emitters (mrem/yr)	4	ND	Heptachlor	400	ND
Alpha emitters (pci/l)	15	ND	Heptachlor epoxide	200	ND
Combined radium (pci/l)	5	ND	Hexachlorobenzene	1	ND
Inorganic			Hexachloropentadiene	1	ND
Antimony (ppm)	0.001	ND	Lindane	200	ND
Arsenic (ppm)	0.001	ND	Methoxychlor	40	ND
Asbestos (MFL)	7	NA	Oxamyl [Vydate]	200	ND
Barium (ppm)	2	0.012	PCBs	500	ND
Beryllium (ppm)	0.004	ND	Pentachlorophenol	1	ND
Cadmium (ppm)	0.005	ND	Picloram	500	ND
Chromium (ppm)	0.1	ND	Simazine	4	ND
Copper (ppm)	AL= 1.3	0.130	Toxaphene	3	ND
Cyanide (ppm)	0.2	ND	Benzene	5	ND
Fluoride (ppm)	4	0.76	Carbon Tetrachloride	5	ND
Lead (ppm)	AL=.015	0.0004	Chlorobenzene	100	ND
Mercury (ppm)	0.002	ND	Dibromochloropropane	200	ND
Nitrate (ppm)	10	0.097	0-Dichlorobenzene	600	ND
Nitrite (ppm)	1	ND	p-Dichlorobenzene	75	ND
Selenium(ppm)	0.05	ND	1,2-Dichloroethane	5	ND
Thallium(ppm)	0.001	ND	1,1-Dichloroethylene	7	ND
Chlorine (ppm)	4	2.1	Cis-1,2-Dichloroethylene	70	ND
Organic Chemicals			trans-1,2-Dichloroethylene	100	ND
2,4-D	70	ND	Dichloromethane	5	ND
2,4,5-TP (Silvex)	50	ND	1,2-Dichloropropane	5	ND
Acrylamide	TT	ND	Ethylbenzene	700	ND
Alachlor	2	ND	Ethylene dibromide	50	ND
Atrazine	3	ND	Styrene	100	ND
Benzo(a)pyrene[PHAs]	200	ND	Tetrachloroethylene	5	ND
Carbofuran	40	ND	1,2,4-Trichlorobenzene	0.07	ND
Chlordane	2	ND	1,1,1-Trichloroethane	200	ND
Dalapon	200	ND	1,1,2-Trichloroethane	5	ND
Di-(2-ethylhexyl)adipate	400	ND	Trichloroethylene	5	ND
Di(2-ethylhexyl)phthalates(ppb)	6	ND	TTHM(ppm)	0.08	0.037
Dinoseb	7	ND	Toluene	1	ND
Diquat	20	ND	Vinyl Chloride	2	ND
Dioxin[2,3,7,8-TCDD]	30	ND	Xylenes(ppm)	10	ND
Chlorine Dioxide(ppm)	800	0.43			

Un-Regulated Contaminant Table			Detected Secondary & Physical Contaminants Table		
CONTAMINANT	Average Detected Level	Range of Detected Levels	CONTAMINANT	Highest Detected Level	Range of Detected Levels
Bromodichloromethane (ppm)	0.004	.003 - .004	Calcium (ppm)	2.7	2.7
Bromoform (ppm)	ND	ND	Carbon Dioxide (ppm)	17.6	6 - 17.6
Trichloroacetic acid (ppm)	0.005	.002-.012	Chloride (ppm)	12.5	12.5
Dichloroacetic acid (ppm)	0.015	.010-.025	Color (units)	ND	ND
Chloroform(ppm)	0.022	.011 - .031	Copper (ppm)	0.130	ND - .130
Dibromochloromethane(ppm)	0.0006	.0002 - .0008	Hardness (ppm)	9.9	9.9
Dibromoacetic acid (ppm)	ND	ND	Iron (ppm)	0.060	ND - .060
Monochloroacetic acid (ppm)	0.0006	ND - .002	Magnesium (ppm)	1.18	1.18
Monobromoacetic acid (ppm)	ND	ND	pH (su)	8.5	7.1 - 8.5
Dibromomethane(ppb)	ND	ND	Potassium	NA	NA
			Sodium (ppm)	15.6	15.6
			Specific Conductance (umhos)	123	123
			Sulfate (ppm)	5.35	5.35
			Total Alkalinity (ppm)	29	15-29
			Total Dissolved Solids (ppm)	72	72
			Zinc (ppm)	ND	ND
			Aluminum (ppm)	ND	ND
			Manganese (ppm)	0.016	ND - .016
			Foaming Agents (ppm)	ND	ND

Unregulated Contaminants Table (2020)

In addition to the primary drinking water contaminants, the utility monitors regularly for some of the following unregulated and secondary contaminants as regulated by the Alabama Department of Environmental Management. The ADEM has proposed regulations under consideration at the time of this publication to require any detects to be reported in all subsequent water quality reports. The requirement of this additional monitoring and reporting will further insure the safety of your drinking water and will keep you, as a utility customer, more informed.

CONTAMINANT	Average Detected Level	CONTAMINANT	Average Detected Level
1,1 - Dichloropropene	ND	Chloroform	0.022
1,1,1,2-Tetrachloroethane	ND	Chloromethane	ND
1,1,2,2-Tetrachloroethane	ND	Dibromochloromethane	0.0006
1,1-Dichloroethane	ND	Dibromomethane(ppb)	ND
1,2,3 - Trichlorobenzene	ND	Dicamba	ND
1,2,3 - Trichloropropane	ND	Dichlorodifluoromethane	ND
1,2,4 - Trimethylbenzene	ND	Dieldrin	ND
1,3 - Dichloropropane	ND	Hexachlorobutadiene	ND
1,3 - Dichloropropene	ND	Isopropylbenzene	ND
1,3,5 - Trimethylbenzene	ND	M-Dichlorobenzene	ND
2,2 - Dichloropropane	ND	Methomyl	ND
3-Hydroxycarbofuran	ND	MTBE	ND
Aldicarb	ND	Metolachlor	ND
Aldicarb Sulfone	ND	Metribuzin	ND
Aldicarb Sulfoxide	ND	N - Butylbenzene	ND
Aldrin	ND	Naphthalene	ND
Bromobenzene	ND	N-Propylbenzene	ND
Bromochloromethane	ND	O-Chlorotoluene	ND
Bromodichloromethane	0.004	P-Chlorotoluene	ND
Bromoform	ND	P-Isopropyltoluene	ND
Bromomethane	ND	Propachlor	ND
Butachlor	ND	Sec - Butylbenzene	ND
Carbaryl	ND	Tert - Butylbenzene	ND
Chloroethane	ND	Trichlorofluoromethane	ND

Secondary & Physical Contaminants Table

CONTAMINANT	Highest Detected Level	CONTAMINANT	Highest Detected Level
Aluminum	ND	Total Alkalinity (ppm)	29
Calcium (ppm)	2.7	Chloride (ppm)	12.5
Magnesium (ppm)	1.18	Sulfate (ppm)	5.4
Manganese (ppm)	0.016	Total Dissolved Solids (ppm)	72
Nickel	ND	pH (su)	8.5
Silver	ND	Odor	None
Zinc (ppm)	ND	Iron (ppm)	0.06
Hardness (ppm)	9.9	Sodium (ppm)	15.6
Color (units)	ND	Potassium (ppm)	NA
Copper (ppm)	0.13	Carbon Dioxide (ppm)	17.6
Specific Conductance	123	Foaming Agents(ppm)	ND

UCMR4 Results 2020

	2/20/2020	5/21/2020	8/19/2020
Manganese -	.003 ppm	.002 ppm	.0009 ppm
Germanium -	ND	ND	ND
Chlorpyrifos -	ND	ND	ND
Total Permethrin -	ND	ND	ND
Alpha-hexachlorocyclohexane -	ND	ND	ND
Dimethipin -	ND	ND	ND
Oxyfluorfen -	ND	ND	ND
Profenofos -	ND	ND	ND
Tebbuconazole -	ND	ND	ND
Tribufos -	ND	ND	ND
Ethoprop -	ND	ND	ND
Butylated Hydroxyanisole -	ND	ND	ND
O-toluidine -	ND	ND	ND
Quinoline -	ND	ND	ND
1-butanol -	ND	ND	ND
2-methoxyethanol -	ND	ND	ND
2-propen-1-ol -	ND	ND	ND
Total Organic Carbon (TOC)	1.85 ppm	2.58 ppm	2.34 ppm
	HAAS	HAAGBr	HAAS
2/20/2020			
323 Marshall Rd.	.021 ppm	.003 ppm	.024 ppm
80991 Tallassee	.018 ppm	.003 ppm	.021 ppm
1605 New Home	.017 ppm	.003 ppm	.019 ppm
470 Shokula Lane	.018 ppm	.003 ppm	.022 ppm
5/21/2020			
323 Marshall Rd.	.032 ppm	.004 ppm	.036 ppm
80991 Tallassee	.028 ppm	.004 ppm	.032 ppm
1605 New Home	.036 ppm	.004 ppm	.040 ppm
470 Shokula Lane	.032 ppm	.004 ppm	.036 ppm
8/19/2020			
323 Marshall Rd.	.032 ppm	.005 ppm	.037 ppm
80991 Tallassee	.030 ppm	.005 ppm	.034 ppm
1605 New Home	.029 ppm	.004 ppm	.033 ppm
470 Shokula Lane	.032 ppm	.005 ppm	.037 ppm

Water Loss In Gallons

Leak this Size	Loss Per Day	Loss Per Month	Leak this Size	Loss Per Day	Loss Per Month
•	120	3,600	●	6,640	199,520
•	300	10,800	●	6,964	209,520
•	693	20,790	●	8,424	252,720
•	1,200	36,000	●	9,585	296,640
•	1,920	57,600	●	11,324	339,720
•	3,095	92,880	●	12,750	361,600
•	4,295	128,880	●	14,952	448,560

