

Lead and Copper Sampling Plan

**For the
Water Works and Sewer Board of the City of Eufaula
840 West Washington Street
Eufaula, AL 36027**

**PWSID AL0000085
Barbour County**

**Updated:
December 20, 2019**

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System Information

System Name: Water Works and Sewer Board of the City of Eufaula

PWSID Number: AL0000085

Address: P.O. Box 26
Eufaula, AL 36072

Contact: C. Daryl Baker- General Manager
Joey White- Operations Manager
Michael Taylor- Production/Treatment Supervisor
334-687-1225 work M.T. cell 334-370-3155

Population Served: Approximately 15,000

Number of Samples: 30 with 8 alternate sites

Water Source: Gordo Formation of the Tuscaloosa Aquifer
7 Wells with chlorine and fluoride injection

Regulatory Agency: Alabama Department of Environmental Management
(ADEM)

Primary Laboratory: Environmental Resource Analyst
Contact: Joe Freda
Address: 2975 Brown Ct.
Auburn, AL 36830
Telephone: 334-502-3444
Fax: 334-502-8888

Alternate Laboratory: Poly Engineering
Contact: Steve Davis
Address: 1885 Headland Ave.
Dothan, AL 36303
Telephone: 334-793-4700
Fax: 334-677-9477

Lead and Copper Sampling Plan

Water Works and Sewer Board of the City of Eufaula

840 West Washington Street

Eufaula, AL 36027

PWSID AL0000085

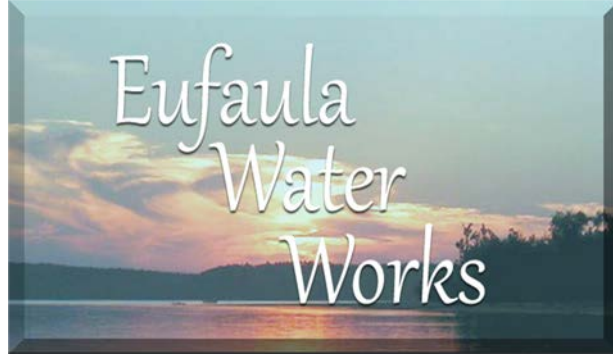
The purpose of the lead and copper sampling plan is to identify specific sample locations which are representative of the water quality throughout the distribution system, as well as ensuring compliance with the Alabama Department of Environmental Management. The samples are collected from areas that may have both private and public lead connections or copper service lines.

The Eufaula Water Works is currently required to collect 30 samples in the distribution system. We have 8 alternate sites. The samples are collected every three years from the primary sites and tested.

Eufaula Water Works and Sewer Board Material List

Eufaula Water Works consists of approximately 64.5 miles of cast/ductile iron pipe and approximately 72.8 miles of pvc pipe. The tapping saddles consist of brass and ductile iron. The service lines from the main to the meter consist of galvanized, polyethylene tubing, and type k copper. The service lines in the older part of town, may contain lead connections in the service lines. These lead connections are removed when discovered. There are no known lead service lines in the system.

The meters contain brass, iron, and or plastic with shut off valves. We have approximately 5,755 multi jet meters installed in 2007 or later. We have 20 2" or larger meters installed in 2009 or later, with a total of 165 meters 2" and larger.



840 W. Washington St • P.O. Box 26 • Eufaula, AL 36027
 (334) 687-1225
www.eufaulawaterworks.com

Date

Dear Sir or Madam,

As part of the ongoing Lead and Copper Sampling Program required by ADEM and USEPA, we are preparing to collect samples from residents that have participated in previous years testing. We are required to take samples and have them tested every three years. Your address is a collection site from previous years and we appreciate those that have participated in the pasts. We ask for your continued assistance in helping us insure the quality of our drinking water in Eufaula. For those that are new residents at these locations we hope that you are willing to assist us as previous residents have.

We will begin distributing sample bottles _____. The bottles will be delivered to your house by Water Board personnel and will be in a plastic grocery bag. We will hang them on the doorknob of your front door. Samples should be taken the morning of _____. Please place your sample back in the plastic bag and hang it back on the doorknob of your front door. Water Board personnel will come by and pick it up. Should your sample not be picked up, please notify Jan Spitzer at the Water Board (687-1225) and she will have someone pick it up.

If you have any water treatment devices such as water filters or water softeners, etc., please call Jan Spitzer at the Water Board. Attached you will find a sheet with instructions on the collection process, as well as, the requirements as stated by ADEM.

If you have any questions about the program, have a scheduling conflict, or will not be able to participate, please notify Jan Spitzer as soon as possible. Thank you again for your assistance.

Sincerely,

C. Daryl Baker
 General Manager

CDB/js

Jack B. Tibbs, Jr
 Chairman

Johnny Knight
 Vice-Chairman

Sidney L. "Chip" Chapman
 Member

Barbara C. Flurry
 Member

Eugene Harris
 Member

Joy White
 Secretary/ Treasurer

C. Daryl Baker
 General Manager

Sampling Instructions:

- 1) Samples must be taken before any water is run the morning of _____, _____ from a Cold water kitchen or bathroom faucet. Water should not be run for 6 hours prior to collection.
- 2) Do not remove faucet aerator or screen.
- 3) Completely fill the bottle provided doing so slowly with no agitation.
- 4) Cap the bottle securely.
- 5) Please complete **highlighted** area on the Chain of Custody form.
- 6) Place the bottle back in the plastic bag and hang it on your front doorknob.

From Alabama Department of Environmental Management, Water Division-Water Supply Program, Chapter 335-7-11, Control of Lead and Copper

335-7-11-.01

Definition:

- (e) First draw sample—A 12 oz. sample of tap water which has been standing in plumbing piping for at least six hours prior to collection and is collected without flushing the tap. Samples shall be taken from residential housing from a cold water kitchen or bathroom tap or from a no-residential building collected at a tap used for water consumption.

335-7-11-08

Procedure:

- (a) Tap monitoring for lead and copper shall be first draw and one liter in volume. The water shall stand motionless in the plumbing system for at least six hours prior to collection. Collection shall be from the cold water kitchen tap or bathroom sink tap from tier 1 sites or from an interior tap typically used for obtaining water for consumption from tier 2 and tier 3 sites. Monitoring may be conducted by the resident after proper instructions and procedures have been provided by the water system. Follow up tap monitoring shall be conducted from the same sites. Should a site no longer be available, an alternate acceptable site may be selected which is in reasonable proximity of the original site. Taps used for monitoring may not include faucets that have point of use or treatment devices installed.

Eufaula Water Works and Sewer Bd. Lead and Copper Sites

No.	Address	Tier Level	Lead Service line	Primary or Alternate	Year of Plumbing
1	202 New Fort Browder Rd.	1	No	P	1988
2	204 New Fort Browder Rd.	1	No	P	1986
3	329 Meadow Dr.	1	No	P	1988
4	911 Lee ST.	1	No	P	1987
5	1494 Barbour Ln.	1	No	P	1987
6	303 Benjamin Dr.	1	No	P	1988
7	113 Sunrise Dr.	1	No	P	1988
8	211 St. Francis Rd.	1	No	P	1983
9	1607 North Eufaula Ave.	1	No	P	1983
10	1737 Fox Ridge Rd.	1	No	P	1988
11	568 Inlet Rd.	1	No	P	1986
12	210 Newmont Dr.	1	No	P	1985
13	536 Old Hwy. 165	1	No	P	1986
14	742 West Broad St.	1	No	P	1986
15	105 Pebble Beach Dr.	1	No	P	1988
16	324 Dickerson Ave.	1	No	P	1988
17	300 Five Mile Rd.	1	No	P	1987
18	744 Hwy. 30	1	No	P	1985
19	107 Elm Place	1	No	P	1987
20	121 Thomas Dr.	1	No	P	1983
21	106 Five Mile Rd.	1	No	P	1986
22	111 Sandy Lane East	1	No	P	1986
23	377 Cottonhill Rd.	1	No	P	1987
24	105 Irwinton Dr.	1	No	P	1984
25	108 Five Mile Rd.	1	No	P	1987
26	175 Woodhill Cir.	1	No	P	1986
27	216 Benjamin Dr.	1	No	P	1985
28	115 Pebble Beach Rd.	1	No	P	1986
29	337 Meadow Cir.	1	No	P	1987
30	304 Blue Pine Dr.	1	No	P	1988
31	111 Sunrise Dr.	1	No	A	1986
32	626 Parkers Dr.	1	No	A	1985
33	219 T. V. McCoo Blvd.	1	No	A	1988
34	109 Ridgewood Ln.	1	No	A	1984
35	525 Dale Rd.	1	No	A	1986
36	303 St. Francis Rd.	3	No	A	1967
37	325 Woodhill Cir.	3	No	A	1980
38	308 Blue Pine Dr.	3	No	A	1979

Public Water Supply Lead and Copper Sample Site Plan Selection Criteria for Community Systems

All public water supplies must complete a materials evaluation of their system to identify their sample sites. Samples must be collected from Tier 1 sites unless there are not sufficient sites, then Tier 2 sites may be used. If there are not sufficient Tier 1 and Tier 2 sites then Tier 3 sites may be used.

Tier Definitions are as follows:

Tier 1- Includes single family structures that;

- Contain copper pipes with lead solder which was installed after 1982 or;
- Contain lead pipes or;
- Is served by a lead service line
- Multi family structures may be used as a Tier 1 site when multi-family structures comprise at least 20% of the structures served by the system.

Tier 2- Includes multi family structures and buildings that;

- Contain copper pipes with lead solder which was installed after 1982 or;
- Contain lead pipes or;
- Is served by lead service line

Tier 3- Includes single family structures that contain copper pipes with lead solder which were installed prior to 1983.

Tier Categories- Use the following to identify the Tier and category of each site:

Tier 1

- Single family- copper pipe with lead solder constructed after 1982
- Single family- lead pipes
- Single family- lead service
- Multi-family- copper pipe with lead solder constructed after 1982
- Multi-family- lead pipes
- Multi-family- lead service

Tier 2

- Building- copper pipe with lead solder constructed after 1982
- Building- lead pipes
- Building- lead service

Tier 3

- Single family- copper pipe with lead solder constructed before 1983

IMPORTANT: Lead Water Sample Result

Public Water System Name: The City of Eufaula Water Works and Sewer Bd.

PWSID Number: AL0000085

SAMPLE RESULT

On _____, a lead water sample was collected from _____. The Safe Drinking Water Act requires the Eufaula Water Works to provide each customer who collected a lead sample the results. The lead result from the sample collected at the above address is ____ parts per billion. The copper result is: ____ parts per billion.

MAXIMUM CONTAINMENT LEVEL GOAL (MCLG) & ACTION LEVEL

The MCLG for lead is zero and the action level is 15 parts per billion. The MCLG is the level of a containment in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety. The action level is the concentration of a containment which, if exceeded, triggers treatment of other requirements which a water system must follow. The action level for copper is 1,300 parts per billion.

HEALTH EFFECTS OF LEAD

Lead can cause serious health problems if too much enters your body from drinking water or other sources. It can cause damage to the brain and kidneys, and can interfere with the production of red blood cells that carry oxygen to all parts of your body. The greatest risk of lead exposure is to infants, young children, and pregnant women. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead than healthy adults. Lead is stored in the bones and it can be released later in life. During pregnancy, the child receives lead from the mother's bones, which may affect brain development.

STEPS YOU CAN TAKE TO REDUCE EXPOSURE TO LEAD IN DRINKING WATER

Run your water to flush out lead: If water hasn't been used for several hours run water for 15 to 30 seconds or until it becomes cold or reaches a steady temperature before using it for drinking or cooking.

Use cold water for cooking and preparing baby formula: Lead dissolves more easily into hot water.

Do not boil water to remove lead: Boiling water will not reduce lead.

Remove loose solder and debris from plumbing materials: Remove the faucet strainers from all taps and run the water from 3 to 4 minutes. Thereafter, periodically remove the strainers and flush any debris that has accumulated over time.

Identify and replace lead solder: Lead solder appears dull gray, and when scratched with a key becomes shiny. A licensed plumber should be able to help with lead solder identification and replacement (if applicable).

Have an electrician check your grounding: Check with a licensed electrician if grounding wires from the electrical system can be done so elsewhere (if applicable).

Look for alternative sources or treatment of water: You may want to consider purchasing bottled water or a water filter.

ADDITIONAL INFORMATION

For additional information, please contact the Eufaula Water Works at 334-687-1225. For additional information on reducing lead exposure around your home/building, and the health effects of lead, visit EPA's website at

<http://www.epa.gov/lead> or contact your health care provider.

LEAD & COPPER TESTING

Eufaula Water Works and Sewer Board

840 West Washington Street
Eufaula, Alabama 36027 334-687-1225

	Lead Service	Collection	Analysis	Lead	Analysis	Copper	Year of
	Tier	Line Sample	Date	Date	ug/L	Date	ug/L
202 New Fort Browder Rd	1	NO					1988
204 New Fort Browder Rd	1	NO					1986
329 Meadow Cir.	1	NO					1988
911 Lee St.	1	NO					1987
1494 Barbour Ln.	1	NO					1987
303 Benjamin Dr.	1	NO					1988
113 Sunrise Dr	1	NO					1988
211 St. Francis Rd.	1	NO					1983
1607 North Eufaula Ave	1	NO					1983
1737 Fox Ridge Rd.	1	NO					1988
568 Inlet Rd.	1	NO					1986
210 Newmont Dr	1	NO					1985
536 Old Hwy 165	1	NO					1986
742 West Broad St.	1	NO					1986
105 Pebble Beach Dr.	1	NO					1988

324 Dickerson St.	1	NO						1988
300 Five Mile Rd.	1	NO						1987
744 Hwy 30	1	NO						1985
107 Elm Place	1	NO						1987
121 Thomas Dr.	1	NO						1983
106 Five Mile Rd.	1	NO						1986
111 Sandy Lane East	1	NO						1986
377 Cottonhill Rd.	1	NO						1987
105 Irwinton Dr.	1	NO						1984
108 Five Mile Rd.	1	NO						1987
175 Woodhill Cir.	1	NO						1986
216 Benjamin Dr.	1	NO						1985
115 Pebble Beach Dr.	1	NO						1986
337 Meadow Cir.	1	NO						1987
304 Blue Pine Dr.	1	NO						1988
Alternate Sites								
111 Sunrise Dr	1	NO						1986
626 Parker Dr.	1	NO						1985

219 North Dr T.V. McCoo Blvd.	1	NO						1988
109 Ridgewood Ln.	1	NO						1984
525 Dale Rd.	1	NO						1986
303 St. Francis Rd.	3	NO						1967
325 Woodhill Cir.	3	NO						1980
308 Blue Pine Dr.	3	NO						1979