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WHEN A WATER SYSTEM HAS AN EXCEEDANCE, THE WATER SYSTEMS ARE REQUIRED TO CONTACT THE LOCAL HEALTH DEPARTMENTS.

INTRODUCTION LEAD AND COPPER RULE

This is the Lead Sampling Plan to be used by the Enterprise Water Works Department. The plan has been prepared with guidance from the Alabama Department of Environmental Management and was developed around the following major steps:

- Procedures used to collect a Sample
- Sampling Procedures
- Selecting Sample Sites
- Public Notification Procedures

Any person responsible for collecting Lead Samples for this system must read the plan and be thoroughly familiar with it prior to collecting samples.

WATER WORKS SYSTEM PERSONNEL LEAD AND COPPER RULE

NAME	ADDRESS	PHONE NO.
William Cooper	1100 Coppinville Road	334-348-2601
Superintendent	Enterprise, AL 36330	334-347-6379
Eugene Goolsby	500 W. College St.	334-347-5801
Water Board Member	Enterprise, AL 36330	334-303-7596
John L. Mitchell, Jr. Water Board Chairman	611 Tartan Way Enterprise, AL 36330	334-464-1141
Ben Beckham, Jr.	508 Laurel Breeze	334-447-2275
Water Board Member	Enterprise, AL 36330	334 447 2273
***Alan Mahan	801 Mill Avenue	334-348-2652
Field Superintendent	Enterprise, AL 36330 amahan@enterpriseal.gov	334-406-3088
Robert Watson	801 Mill Avenue	334-348-2652
Supervisor	Enterprise, AL 36330	334-406-0585
LeeAnn Swartz	501 South Main Street	334-347-1211
Treasurer	Enterprise, AL 36330	Extension 2240
Kerry Johnson	501 South Main Street	334-348-2653
Water Office Manager	Enterprise, AL 36330 kjohnson@enterpriseal.gov	
Water Office Manager		

***Note:

Alan Mahan should be contacted should a sample test POSITIVE. ***

LEAD AND COPPER RULE PLAN CITY OF ENTERPRISE WATER WORKS BOARD

POPULATION

The Population is 48,420.

WATER SERVICES – ENTERPRISE WATER WORKS

RESIDENTIAL WATER SERVICES	15,995
NON-RESIDENTIAL	1,145
TOTAL WATER SERVICES	17,140
LESS IRRIGATION METERS	-1,411
TOTAL WITHOUT IRRIGATION	15,729

LEAD AND COPPER RULE PLAN ENTERPRISE WATER WORKS

The Enterprise Water Works collects 30 Samples every three years for its Lead and Copper Monitoring.

LEAD AND COPPER RULE PLAN ENTERPRISE WATER WORKS LABORATORY INFORMATION

Laboratory: Guardian Systems, Inc.

Primary Laboratory Performing Sample Analysis

Address: _	1108 Ashville Road								
City, State, Zip: _	Leeds, Alabama 35094								
	205-699-6647								
Contact Person									
Address:									
_									
_									
	Laboratory Performing Sample Analysis								
	Laboratory Performing Sample Analysis								
Alternative	Laboratory Performing Sample Analysis Pace Analytical National Center for Testing & Innovation								
Alternative Laboratory:	Pace Analytical National Center for Testing & Innovation								
Alternative Laboratory: _ Address: _	Pace Analytical National Center for Testing & Innovation 12065 Lebanon Road								
Laboratory:Address:	Pace Analytical National Center for Testing & Innovation 12065 Lebanon Road Mt. Juliet, TN 37122								
Laboratory:	Pace Analytical National Center for Testing & Innovation 12065 Lebanon Road Mt. Juliet, TN 37122 800-767-5859 / 615-758-5858								
Laboratory: Address: City, State, Zip: Telephone No.: Contact Person	Pace Analytical National Center for Testing & Innovation 12065 Lebanon Road Mt. Juliet, TN 37122 800-767-5859 / 615-758-5858								
Laboratory: Address: City, State, Zip: Telephone No.: Contact Person	Pace Analytical National Center for Testing & Innovation 12065 Lebanon Road Mt. Juliet, TN 37122 800-767-5859 / 615-758-5858								

Telephone No.:

LEAD AND COPPER RULE PLAN ENTERPRISE WATER WORKS

SOURCES AND WHETHER THEY HAVE CORROSION CONTROL / CHEMICALS FED

The Enterprise Water Works currently does not feed chemicals for Corrosion Control.

SAMPLE SITES - LEAD MONITORING RESULTS 2022

System Name and PWSID#:

Enterprise Water Works #0000296

Monitoring Period:

EVERY THREE YEARS

Number of Samples:

30

Name and Address of Customer	Date First at this Residence	Tier 1,2, or 3	Lead Service Line Sample (Yes or No)	Date of Collection	Date of Analysis	Lead Results (mg/l)	Year of Plumbing
#0108425 Michael J. Duffy 100 Woodbridge Road Enterprise, AL 36330	1/1/2002	1	NO				1986
#0832330 Sonia Webster 104 Abbey Lane Enterprise, AL 36330	3/3/2021	1	NO				1987
#1318275 Jim Knight 1944 Co Rd 533 New Brockton, AL 36351	1/1/2002	1	NO				1986
#1325525 Tommy E. Smith 16738 Hwy 134 New Brockton, AL 36351	7/8/2008	1	NO				1986
#0918375 Jason Dunn 200 Morning View Drive Enterprise, AL 36330	1/1/2002	1	NO				1988
#0903640 Ricky Bradley 106 Nottingham Enterprise, AL 36330	1/1/2002	1	NO				1985
#0903505 Charles Clark 201 Kramer Street Enterprise, AL 36330	1/1/2002	1	NO				1983
#0928490 Nicole Tipton 105 Bermuda Way Enterprise, AL 36330	11/16/2010	1	NO				1983
#0913010 Mary Holloway 102 Brookshire Drive Enterprise, AL 36330	1/1/2002	1	NO				1985
#0903675 Eric J. Dees 304 Beam Rd Enterprise, AL 36330	10/31/2020	1	NO				1984

SAMPLE SITES - LEAD MONITORING RESULTS 2022

James F. Vernon Jr. 109 Stoneridge Rd Enterprise, AL 36330 H0828765 William D. Ortez 1/1/2002 1 NO 1986 H0828765 William D. Ortez 1/1/2002 1 NO 1986 H0828765	Tuo. 2022				Γ	<u> </u>		
109 Stoneridge Rd Enterprise, AL 36330 H0923765 William D. Ortez 115 W. Silver Oak Dr. Enterprise, AL 36330 H0933540 Emmanuel Carter 200 E. Kingswood Drive Enterprise, AL 36330 H093908 Christine Eldreth 113 Oakland Drive Enterprise, AL 36330 H0931320 Sonya Zeller-Roark 315 Valley Stream Drive Enterprise, AL 36330 H09208 Christine Eldreth 11/1/2002 1 NO 1987 Enterprise, AL 36330 H0913120 Sonya Zeller-Roark 315 Valley Stream Drive Enterprise, AL 36330 H062940 Mary C. Scott More Scot	#0108230							
109 Stonenage Na Enterprise, AL 36330 H0828765 William D. Ortez 1/1/2002 1 NO 1986 H0828765		1/1/2002	1	NO				1987
#0828765 William D. Ortez 115 W. Silver Oak Dr. Enterprise, AL 36330 #0933540 Emmanuel Carter 200 E. Kingswood Drive Enterprise, AL 36330 #0829008 Christine Eldreth 113 Oakland Drive Enterprise, AL 36330 #0813120 Sonya Zeller-Roark 315 Valley Stream Drive Enterprise, AL 36330 #1302825 Kenneth Wallace 171/2002 1 NO 1985 Enterprise, AL 36330 #1302825 Kenneth Wallace 171/2002 1 NO 1986 Enterprise, AL 36330 #10529440 Mary C. Scott Mary C. Scott Mary C. Scott Mory	_							
William D. Ortez 115 W. Silver Oak Dr. Enterprise, AL 36330 #0933540 Emmanuel Carter 200 E. Kingswood Drive Enterprise, AL 36330 #0829008 Christine Eldreth 113 Oakland Drive Enterprise, AL 36330 #0913120 Sonya Zeller-Roark 315 Valley Stream Drive Enterprise, AL 36330 #1302825 Kenneth Wallace 19717 Hwy 134 Enterprise, AL 36330 Mary C. Scott 801 E. Grubbs St. Enterprise, AL 36330 #107130400 Mary C. Scott 801 E. Grubbs St. Enterprise, AL 36330 #1003157 Thomas J. Wojtala Jr 302 Raven Enterprise, AL 36330 #103165 Thomas J. Wojtala Jr 302 Raven Enterprise, AL 36330 #103425 Whit Armstrong 1/1/2002 1 NO 1983 Enterprise, AL 36330 #1036575 Rajph Wright 317 Chicksaw 1/1/2002 1 NO 1988								
115 W. Silver Oak Dr. Enterprise, AL 36330 H0933540 Emmanuel Carter 200 E. Kingswood Drive Enterprise, AL 36330 H0829008 Christine Eldreth 113 Oakland Drive Enterprise, AL 36330 H0913120 Sonya Zeller-Roark 315 Valley Stream Drive Enterprise, AL 36330 H1302825 Kenneth Wallace 19717 Hwy 134 Enterprise, AL 36330 H0629440 Mary C. Scott 801 E. Grubbs St. Enterprise, AL 36330 H0630440 Gent Corbit 107 Pruitt Enterprise, AL 36330 H1003165 Thomas J. Wojtala Jr 307 Raven Enterprise, AL 36330 H0934425 Whit Armstrong 11/1/2002 1 NO 1985 Enterprise, AL 36330 H0934425 Whit Armstrong 11/1/2002 1 NO 1985 Enterprise, AL 36330 H0934425 Whit Armstrong 11/1/2002 1 NO 1985 Enterprise, AL 36330 H0934425 Whit Armstrong 11/1/2002 1 NO 1985 Enterprise, AL 36330 H09849575 Rajph Wright 317 Chickasaw								
115 W. Silver Oak Dr.		1/1/2002	1	NO				1086
#0933540 Emmanuel Carter 200 E. Kingswood Drive Enterprise, AL 36330 #0829008 Christine Eldreth 113 Oakland Drive Enterprise, AL 36330 #0913120 Sonya Zeller-Roark 315 Valley Stream Drive Enterprise, AL 36330 #1302825 Kenneth Wallace 19717 Hwy 134 Enterprise, AL 36330 #0629440 Mary C. Scott 801 E. Grubbs St. Enterprise, AL 36330 #0630440 Gent Corbit 107 Pruitt Enterprise, AL 36330 #1003165 Thomas J. Wojtala Jr 302 Raven Enterprise, AL 36330 #0934425 Whit Armstrong 11/1/2002 1 NO 1985 1/1/2002 1 NO 1987 1988 1/1/2002 1 NO 1988	115 W. Silver Oak Dr.	1,1,2002	-	"				1300
Emmanuel Carter 200 E. Kingswood Drive Enterprise, AL 36330 #0829008 Christine Eldreth 113 Oakland Drive Enterprise, AL 36330 #10931312	Enterprise, AL 36330							
200 E. Kingswood Drive Enterprise, AL 36330 #0829008 Christine Eldreth 113 Oakland Drive Enterprise, AL 36330 #0913120 Sonya Zeller-Roark 315 Valley Stream Drive Enterprise, AL 36330 #1302825 Kenneth Wallace 19717 Hwy 134 Enterprise, AL 36330 #0629440 Mary C. Scott 801 E. Grubbs St. Enterprise, AL 36330 #0630440 Gent Corbit 107 Pruitt Enterprise, AL 36330 #1003165 Thomas J. Wojtala Jr 302 Raven Enterprise, AL 36330 #1003425 Whith Armstrong 110 Redwing Enterprise, AL 36330 #0849575 Ralph Wright 317 Chickasaw 1/1/2002 1 NO 1988	#0933540							
# 1/2002 1 NO 1987 1985 1986 1987 1987 1988 198	Emmanuel Carter	12/12/2010	4	NO				1004
#0829008 Christine Eldreth 113 Oakland Drive Enterprise, AL 36330 #0913120 Sonya Zeller-Roark 315 Valley Stream Drive Enterprise, AL 36330 #1302825 Kenneth Wallace 19717 Hwy 134 Enterprise, AL 36330 Mary C. Scott 801 E. Grubbs St. Enterprise, AL 36330 #1003165 Enterprise, AL 36330 #1002826 1/1/2002 1 NO 1986 1987 1987 1988 1989 1989 1989 1989 1989 1989 1989 1989 1989 1989 1989 1989 1989 1989 1989 1989 1988	200 E. Kingswood Drive	12/12/2019	1	I NO				1984
Christine Eldreth 1/1/2002 1	Enterprise, AL 36330							
113 Oakland Drive Enterprise, AL 36330 #0913120 Sonya Zeller-Roark 315 Valley Stream Drive Enterprise, AL 36330 #1302825 Kenneth Wallace 19717 Hwy 134 Enterprise, AL 36330 #0629440 Mary C. Scott 801 E. Grubbs St. Enterprise, AL 36330 #0630440 Gent Corbit 107 Pruitt Enterprise, AL 36330 #1003165 Thomas J. Wojtala Jr 302 Raven Enterprise, AL 36330 #0934425 Whit Armstrong 110 Redwing Enterprise, AL 36330 #0849575 Ralph Wright 317 Chickasaw 1/1/2002 1 NO 1988	#0829008		·					
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#0913120 Sonya Zeller-Roark 315 Valley Stream Drive Enterprise, AL 36330 #1302825 Kenneth Wallace 19717 Hwy 134 Enterprise, AL 36330 #0629440 Mary C. Scott 801 E. Grubbs St. Enterprise, AL 36330 #0630440 Gent Corbit 107 Pruitt Enterprise, AL 36330 #1003165 Thomas J. Wojtala Jr 302 Raven Enterprise, AL 36330 #0934425 Whit Armstrong 110 Redwing 110 Redwi	Enterprise, AL 36330							
Sonya Zeller-Roark 3/31/2018 1								
315 Valley Stream Drive Enterprise, AL 36330 #1302825 Kenneth Wallace 19717 Hwy 134								
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#1302825 Kenneth Wallace 19717 Hwy 134 Enterprise, AL 36330 #0629440 Mary C. Scott 801 E. Grubbs St. Enterprise, AL 36330 #0630440 Gent Corbit 107 Pruitt Enterprise, AL 36330 #1003165 Thomas J. Wojtala Jr 302 Raven Enterprise, AL 36330 #0934425 Whit Armstrong 110 Redwing Enterprise, AL 36330 #0849575 Ralph Wright 317 Chickasaw 1/1/2002 1 NO 1986 1/1/2002 1 NO 1987 1/1/2002 1 NO 1988	•							
Kenneth Wallace 19717 Hwy 134 Enterprise, AL 36330 #0629440 Mary C. Scott 801 E. Grubbs St. Enterprise, AL 36330 #0630440 Gent Corbit 107 Pruitt Enterprise, AL 36330 #1003165 Thomas J. Wojtala Jr 302 Raven Enterprise, AL 36330 #0934425 Whit Armstrong 110 Redwing Enterprise, AL 36330 #10849575 Ralph Wright 317 Chickasaw 1/1/2002 1 NO 1986 1/1/2002 1 NO 1986 1987 1987 1988 1988								
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#0629440 Mary C. Scott 801 E. Grubbs St. Enterprise, AL 36330 #0630440 Gent Corbit 107 Pruitt Enterprise, AL 36330 #1003165 Thomas J. Wojtala Jr 302 Raven Enterprise, AL 36330 #0934425 Whit Armstrong 110 Redwing Enterprise, AL 36330 #0849575 Ralph Wright 317 Chickasaw 1/1/2002 1 NO 1988	· ·							
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#0630440 Gent Corbit 107 Pruitt Enterprise, AL 36330 #1003165 Thomas J. Wojtala Jr 302 Raven Enterprise, AL 36330 #0934425 Whit Armstrong 110 Redwing Enterprise, AL 36330 #0849575 Ralph Wright 317 Chickasaw 1/1/2002 1 NO 1988								
Gent Corbit 107 Pruitt Enterprise, AL 36330 #1003165 Thomas J. Wojtala Jr 302 Raven Enterprise, AL 36330 #0934425 Whit Armstrong 110 Redwing Enterprise, AL 36330 #0849575 Ralph Wright 317 Chickasaw 1/1/2002 1 NO 1988								
107 Pruitt Enterprise, AL 36330 #1003165 Thomas J. Wojtala Jr 302 Raven Enterprise, AL 36330 #0934425 Whit Armstrong 110 Redwing Enterprise, AL 36330 #0849575 Ralph Wright 317 Chickasaw 1/1/2002 1 NO 1988								
#1003165 Thomas J. Wojtala Jr 302 Raven Enterprise, AL 36330 #0934425 Whit Armstrong 110 Redwing Enterprise, AL 36330 #0849575 Ralph Wright 317 Chickasaw 9/2/2021 1 NO 1983 1983 1983 1985 1985		1/1/2002	1	NO				1987
#1003165 Thomas J. Wojtala Jr 302 Raven Enterprise, AL 36330 #0934425 Whit Armstrong 110 Redwing Enterprise, AL 36330 #0849575 Ralph Wright 317 Chickasaw 9/2/2021 1 NO 1983 1983 1983 1983 1983 1985 1985 1985 1988								
Thomas J. Wojtala Jr 302 Raven Enterprise, AL 36330 #0934425 Whit Armstrong 110 Redwing Enterprise, AL 36330 #0849575 Ralph Wright 317 Chickasaw 9/2/2021 1 NO 1983 1983 1983 1983 1983				ļ				
302 Raven Enterprise, AL 36330 #0934425 Whit Armstrong 110 Redwing Enterprise, AL 36330 #0849575 Ralph Wright 317 Chickasaw 110 NO 1983 110 NO 1983 110 NO 1988								
#0934425 Whit Armstrong 110 Redwing Enterprise, AL 36330 #0849575 Ralph Wright 317 Chickasaw #0934425 NO 1985 1/1/2002 1 NO 1988	-	9/2/2021	1	NO				1983
#0934425 Whit Armstrong 110 Redwing Enterprise, AL 36330 #0849575 Ralph Wright 317 Chickasaw 1/1/2002 1 NO 1985 1988		3,2,2021	_					1303
Whit Armstrong 110 Redwing Enterprise, AL 36330 #0849575 Ralph Wright 317 Chickasaw 1/1/2002 1 NO 1985 1985								
110 Redwing								
#0849575 Ralph Wright 317 Chickasaw 1/1/2002 1 NO 1988	_	1/1/2002	1	NO				1985
#0849575 Ralph Wright 317 Chickasaw 1/1/2002 1 NO 1988	110 Redwing	1,1,2002	*	""				1303
Ralph Wright 1/1/2002 1 NO 1988	Enterprise, AL 36330							.=
317 Chickasaw 1/1/2002 1 NO 1988	#0849575							
31/ Chickasaw	Ralph Wright	1/1/2002	4	NO				1000
Enterprise, AL 36330	317 Chickasaw	1/1/2002	1	I NO				1300
	Enterprise, AL 36330							
#1326176	#1326176						_	
John Kammerer	John Kammerer	2/27/2017						4004
4163 Co Rd 610 3/27/2017 1 NO 1984	4163 Co Rd 610	3/2//201/	1	NO				1984
Enterprise, AL 36330	Enterprise, AL 36330							

SAMPLE SITES - LEAD MONITORING RESULTS 2022

	· · · · · · · · · · · · · · · · · · ·			1	ı																					
#0572036																										
Michael Isom	10/31/2019	1	NO			1988																				
401 Candlewood	20,02,2025	_	"			1300																				
Enterprise, AL 36330																										
#0578678																										
Jim Tomberlin	1/1/2002	1	NO			4005																				
2991 Ozark Hwy	1/1/2002	1	I NO			1985																				
Enterprise, AL 36330																										
#0525332	- <u>-</u>																									
Charles Jones	4 /4 /2002	4																								
100 Lakewood Dr	1/1/2002	1	NO			1984																				
Enterprise, AL 36330																										
#0605105		* *																								
Mark R.T. Martinez	10/0/0010	_																								
302 S. Oakridge Dr.	10/8/2019	1	NO			1988																				
Enterprise, AL 36330																										
#1002115					-	 																				
Pamela D. Shockley	44 /22 /2245	_																								
400 Shawnee	11/20/2015	1	NO			1986																				
Enterprise, AL 36330																										
#0849645						 																				
Gabrielle E. Escamilla		_	NO																							
103 Comanche	7/6/2021	1		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NÜ	NO	NO	NO			1985
Enterprise, AL 36330																										
#0203635		_																								
Robert Hayes		_																								
101 Pinecrest Loop	12/14/2004	1	NO			1985																				
Enterprise, AL 36330																										
#0850790						 																				
Jordan Huffman			NO																							
203 Arapaho Ct.	1/31/2020	1				1987																				
Enterprise, AL 36330																										

ALTERNATE SAMPLE SITES - LEAD AND COPPER PLAN 2022

System Name and PWSID:	ENTERPRISE WATER WORKS #0000296
Monitoring Period:	EVERY THREE YEARS
Number of Samples:	30

Number of Samples.							
Name and Address of Customer	Date first at this Residence	Tier 1, 2, or 3	Lead Service Line Sample (Yes or No)	Date of Collection	Date of Analysis	Lead Results (mg/l)	Year of Plumbing
#0108350 Russell E. Hollinhead 103 Woodbridge Dr Enterprise, AL 36330	7/3/2014	1	NO				1986
#0832335 Charles E. Hover, Jr. 102 Abbey Lane Enterprise, AL 36330	1/1/2002	1	NO				1987
#1321725 Janet Purvis 1947 Co Rd 533 New Brockton, AL 36351	8/19/2020	1	NO				1986
#1325575 Gerald Hartley 16890 Hwy 134 New Brockton, AL 36351	1/1/2002	1	NO				1986
#0918372 Connie J. Hudson 202 Morning View Drive Enterprise, AL 36330	6/16/2021	1	NO				1988
#0903645 Randolph Welch 104 Nottingham Enterprise, AL 36330	1/1/2002	3	NO				1982
#0903520 John M. Schiavone 207 Kramer Street Enterprise, AL 36330	1/1/2002	1	NO				1983
#0928515 John C. Jones 100 Bermuda Way Enterprise, AL 36330	1/1/2002	3	NO				1980
#0913000 Michael L. Grubb 200 Brookshire Drive Enterprise, AL 36330	2/16/2018	1	NO				1985

ALTERNATE SAMPLE SITES - LEAD AND COPPER PLAN 2022

#0903480 Ronnie Donaldson 307 Beam Rd Enterprise, AL 36330	1/1/2002	3	NO		1982
#0108235 Tisha N. Brown 111 Stoneridge Rd Enterprise, AL 36330	11/5/2020	1	NO		1987
#0828775 Charity Sator 119 W. Silver Oak Dr. Enterprise, AL 36330	3/2/2019	1	NO	-	1986
#0905210 Paul Gaydos 206 W. Kingswood Drive Enterprise, AL 36330	6/3/2005	1	NO		1984
#0829006 Misty G. Hill 111 Oakland Drive Enterprise, AL 36330	7/9/2019	1	NO		1987
#0913105 Christopher Byrd 311 Valley Stream Drive Enterprise, AL 36330	12/12/2012	1	NO		1985
#1302800 Deborah Brion 19783 Hwy 134 Enterprise, AL 36330	10/13/2006	1	NO		1986
#0629445 Richard Vetch 803 E. Grubbs St. Enterprise, AL 36330	7/24/2020	1	NO		1986
#0630435 Shaun M. Cox 105 Pruitt Enterprise, AL 36330	6/15/2017	1	NO		1987
#1003175 Alexis Pagan 206 Raven Enterprise, AL 36330	11/3/2020	1	NO		1983
#0935430 Flora Aldrich 111 Redwing Enterprise, AL 36330	1/1/2002	1	NO		1989

ALTERNATE SAMPLE SITES - LEAD AND COPPER PLAN 2022

#0851115 Tracey Kilcrease 304 Chickasaw Enterprise, AL 36330	1/22/2020	1	NO			1988
#1400278 Grady Strength 3252 Co Rd 610 Enterprise, AL 36330	1/1/2002	1	NO			1984
#0567000 Robert Bennett 305 Candlewood Enterprise, AL 36330	1/1/2002	1	NO			1988
#0535608 A. V. Longsworth 3190 Ozark Hwy Enterprise, AL 36330	1/1/2002	3	NO			1982
#0578680 Kim Smith 2961 Ozark Hwy Enterprise, AL 36330	9/22/2014	3	NO		;	1978
#0604930 Greg Oliver 303 S. Oakridge Dr. Enterprise, AL 36330	1/1/2002	1	NO			1988
#1001602 Katha Nickerson 309 Shawnee Enterprise, AL 36330	4/30/2008	1	NO			1986
#0849665 Brett M. Baxter 108 Comanche Enterprise, AL 36330	4/1/2011	1	NO			1985
#0203955 Judy Hanson 102 Pinecrest Loop Enterprise, AL 36330	1/1/2002	1	NO			1985
#0850820 Chester Hammond 106 Arapaho Ct. Enterprise, AL 36330	9/15/2005	1	NO			1984

SAMPLING PROTOCAL

Directions for Homeowner Tap Sample Collection Procedures

Revised Version: February 2016

These samples are being collected to determine the lead and copper levels in your tap water. This sampling effort is required by the U. S. Environmental Protection Agency and your State under the Lead and Copper Rule and is being accomplished through collaboration between the public water system and their consumers (e.g. residents).

Collect samples from a tap that has not been used for at least 6 hours. To ensure the water has not been used for at least 6 hours, the best time to collect samples is either early in the morning on in the evening upon returning from work. Be sure to use a kitchen or bathroom cold water tap that has been used for drinking water consumption in the past few weeks. The collection procedure is described below.

- 1. Prior arrangements will be made with you, the customer, to coordinate the sample collection. Dates will be set for sample kit delivery and pick-up by water system staff.
- 2. There must be a minimum of 6 hours during which there is no water used from the tap where the sample will be collected and any taps adjacent or close to that tap. Either early mornings or evenings upon returning home are the best sampling times to ensure that the necessary stagnant water conditions exist. Do not intentionally flush the water line before the start of the 6 hour period.
- 3. Use a kitchen or bathroom cold water faucet for sampling. If you have water softeners on your kitchen taps, collect your sample from the bathroom tap that is not attached to a water softener, or a point of use filter, if possible. Do no remove the aerator prior to sampling. Place the opened sample bottle below the faucet and open the cold water tap as you would do to fill a glass of water. Fill the sample bottle to the line marked "1000-ml" and turn off the water.
- 4. Tightly cap the sample bottle and place in the sample kit provided. Please review the sample kit label at this time to ensure that all information contained on the label is correct.
- 5. If any plumbing repairs or replacement has been done in the home since the previous sampling event, note this information on the label as provided. Also if your sample was collected from a tap with a water softener, note this as well.
- 6. Place the sample kit in the same location the kit was delivered to so that water system staff may pick up the sample kit.
- 7. Results from this monitoring effort and information about lead will be provided to you as soon as practical but no later than 30 days after the system learns of the tap monitoring results. However, if excessive lead and/or copper levels are found, immediate notification will be provided (usually 1-2 working days after the system learns of the tap monitoring results).

Call Alan Mahan at 334-348-2652 or 334-406-3088 if you have any questions regarding these instructions.

TO BE COMPLETED BY RESIDENT							
Water was last used: Sample was collected:	Time:	Date:					
Sample Location & Fauc	et (e.g. Bathroom Sink):						
I have read the above dir	rections and have taken a tap samp	le in accordance with these directions.					
Signature:		Date:					

Lead and Copper Rule (LCR)

EPA promulgated the Lead and Copper Rule (LCR) in 1991, and ADEM adopted the rule in 1992. Implementation of this rule is a critical component of ADEM's efforts to protect public health and ensure the safety of our state's drinking water. The following information outlines how the LCR is implemented and identifies ways for the public to find information about the quality of its drinking water.

- The LCR has four basic requirements:
 - Require water systems to optimize their treatment system to control corrosion in the distribution system and the customer's plumbing;
 - Determine tap water levels of lead and copper for customers who have lead service lines or lead-based solder in their plumbing system;
 - 3. Rule out the source water as a source of significant lead levels; and
 - 4. If lead action levels are exceeded, the water system is required to take additional actions, which may include:
 - a. Developing and implementing a plan to optimize corrosion control in the finished drinking water;
 - Educating their customers about lead and suggesting actions they can take to reduce their exposure to lead through public notices and public education programs;
 - c. Replacing the portions of level service lines under the system's control; and
 - d. Offering to replace lead service lines under their customers' control at an equitable cost to the customer.
- The LCR requires water systems to monitor at least every 3 years. Some water systems monitor more frequently. The
 water system selects the sites based on criteria set out in the rule. The criteria for the lead and copper sampling sites
 are:
 - Ther 1 sites--These sites include single family structures containing lead pipe or plumbing, are served by a lead service line, or contain copper pipes with lead solder and were constructed after 1982.
 - Ther 2 aftes--These sites include buildings and multiple family residences containing lead pipe or plumbing, are served by a lead service line, or contain copper pipes with lead solder and were constructed after 1982.
 - Tier 3 sites--These sites include single family structures containing copper pipes with lead solder which were constructed prior to 1983.
- The LCR prescribes a specific sampling protocol for water systems to utilize for collecting lead and copper samples at a residence or business (see below).
 - 1. Tap monitoring (collecting a water sample from a faucet) for lead and copper shall be the first draw and one liter in volume.
 - The water shall stand motionless in the plumbing system for at least six hours prior to collection. Pre-stagnation flushing shall not be performed.
 - 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
 - 4. Aerators shall not be removed from taps or cleaned prior to or during the collection of samples.
 - Wide-mouth bottles shall be used to collect samples to allow for a higher flow rate during sample collection which is more representative of the flow that a consumer may use to fill a glass of water.
 - Monitoring may be conducted by the resident after proper instructions and procedures have been provided by the water system.
 - 7. 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.
 - 9. Taps used for monitoring may not include faucets that have point of use or treatment devices installed.
- EPA published a recommendations on how public water systems should address the removal of cleaning aerators, pre-stagnation flushing, and bottle configuration for the purpose of the LCR.
- More information on the LCR can be found on EPA's website at:

More information specifically about your drinking water system can be found in your water system's Annual Consumer Confidence Report (Water Quality Report) available at your water system or on its website. These reports are also submitted to ADEM, so they are available in ADEM's size system. You can also find information at EPAs Enforcement and Compliance History Online (ECHO) web site at: https://echo.epa.do/



¹This document provides a summary of federal drinking water requirements; to ensure full compliance, please consult the federal regulations at 40 CFR 141 and any approved state requirements.

Il was subsequently revised by: the LCR Minor Revisions, 65 FR 1950, January 12, 2000; end the LCR Short-Term Revisions, 72 FR 57782, October 10, 2007.

Lead and Copper Rule: A Quick Reference Guide

	w of the Rule
Title ¹	Lead and Copper Rule (LCR) ² , 56 FR 26460 - 26564, June 7, 1991
Purpose	Protect public health by minimizing lead (Pb) and copper (Cu) levels in drinking water, primarily by reducing water corrosivity. Pb and Cu enter drinking water mainly from corrosion of Pb and Cu containing plumbing materials.
General Description	Establishes action level (AL) of 0.015 mg/L for Pb and 1,3 mg/L for Cu based on 90 th percentile level of tap water samples. An AL exceedance is not a violation but can trigger other requirements that include water quality parameter (WQP) monitoring, corrosion control treatment (CCT), source water monitoring/treatment public education, and lead service line replacement (LSLR).
Utilities Covered	All community water systems (CWSs) and non-transient non-community water systems (NTNCWSs) are subject to the LCR requirements.

Public Health Benefits

Implementation of the LCR has resulted in

Reduction in risk of exposure to Pb that can cause damage to brain, red blood cells, and kidneys, especially for young children and pregnant women.

Reduction in risk of exposure to Cu that can cause stomach and intestinal distress, liver or kidney

damage, and complications of Wilson's disease in genetically predisposed people.

Major Monitoring Provisions

Lead and	Co	pper Tap
Applicability	4	All CWSs and NTNCWSs.
Standard	4	CWSs and NTNCWSs must collect first-draw samples at taps in homes/buildings that are at high risk of Pb/Cu contamination as identified in 40 CFR 141.86(a).
	▶	Number of samples is based on system size (see Table 1).
	₽-	Systems must conduct monitoring every 6 months unless they qualify for reduced monitoring.
Reduced	4	See Table 1 for sample number and Table 2 for criteria.
Water Qu	ıali	ty Parameter (WQP)
Applicability	4	Systems serving > 50,000 people.
	▶	Systems serving ≤ 50,000 during monitoring periods in which either AL is exceeded.
Standard	4	WQP samples at taps are collected every 6 months.
	•	WOPs at entry points to distribution system (EPTDS) are collected every 6 months prior to CCT installation, then every 2 weeks.
Reduced	▶.	See Table 1 for sample number and page 2 for criteria. Does not apply to EPTDS WQP monitoring.
THE RESERVE	RIA.	Table 1: Lead and Copper Tap and WOP Tap Monitoring

Table 1: Lead and Copper Tap and WQP Tap Monitoring

Size Category	System Size	Number of Pb/Cu Tap Sample Sites ³		Number of WQP Tap Sample Sites ⁴	
Size Category		Standard	Reduced	Standard	Reduced
Large	> 100K	100	50	25	10
Large	50,001 - 100K	60	30	10	7
Medium	10,001 - 50K	60	30	10	7
Medium	3,301 - 10K	40	20	3	3
	501 - 3,300	20	10	2	2
Small	101 - 500	10	5	1	1
	≤ 100	5	5	1	1

³ With written State approval, PWSs can collect < 5 samples if all taps used for human consumption are sampled.</p>
⁴ Two WQP tap samples are collected at each sampling site.

	Table 2: Criteria for Reduced Pb/Cu Tap Monitoring
Annual	 PWS serves ≤ 50,000 people and is ≤ both ALs for 2 consecutive 6-month monitoring periods; or Any PWS that meets optimal WOPs (OWQPs) and is ≤ Pb AL for 2 consecutive 6-month monitoring periods.
Triennial	 PWS serves ≤ 50,000 people and is ≤ both ALs for 3 consecutive years of monitoring; or Any PWS that meets OWQP specifications and is ≤ Pb AL for 3 consecutive years of monitoring; or Any PWS with 90th percentile Pb and Cu levels ≤ 0.005 mg/L and ≤ 0.65 mg/L, respectively, for 2 consecutive 6-month monitoring periods (i.e., accelerated reduced Pb/Cu tap monitoring).
Every 9 years	PWS serves ≤ 3,300 people and meets monitoring waiver criteria found at 40 CFR 141.86(g).

Lead Consumer Notice

Within 30 days of learning the results, all systems must provide individual Pb tap results to people who receive water from sites that were sampled, regardless of whether the results exceed the Pb AL, as required by 40 CFR 141.85(d).

Consumer Confidence Report (CCR)

All CWSs, irrespective of their lead levels, must provide an educational statement about lead in drinking water in their CCRs as required by 40 CFR 141.154. Must be in 2008 CCR (due July 1, 2009) if EPA is Primacy Agency, State adopts the rule by reference automatically, or adopts during 2008. Otherwise, this statement is required in the 2009 CCR (due July 1, 2010)

² The June 1991 LCR was revised with the following Technical Amendments: 56 FR 32112, July 15, 1991; 57 FR 28785, June 29, 1992; 59 FR 33860, June 30,

⁵ Based on 90th percentile level. Multiply number of valid samples by 0.9 (e.g., 10 samples x 0.9 = 9; thus, use 9th highest

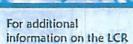
Water Quality	ty Parameter (WQP)
Applicability	Refer to page 1.
Parameters	pH, alkalinity, calcium (initial only, unless calcium carbonate stabilization is used), conductivity (initial monitoring only), orthophosphate (if inhibitor is phosphate-based), silica (if inhibitor is silicate-based), and temperature (initial monitoring only).
Frequency	 Systems installing CCT, must conduct follow-up monitoring for 2 consecutive 6-month periods. WQP tap monitoring is conducted every 6 months, EPTDS monitoring increases to every 2 weeks. After follow-up monitoring, State sets OWQP specifications that define optimal CCT.
Reduced Tap Monitoring	 Collect reduced number of sampling sites (see Table 1) if meet OWQPs for 2 consecutive 6-month periods. Collect reduced number of sampling sites at reduced frequency if meet OWQPs for: 6 consecutive 6-month monitoring periods can monitor annually; 3 consecutive years of annual monitoring can monitor triennially.
Public Educa	tion (PE)
Applicability	Systems that exceed the Pb AL (not required if only the Cu AL is exceeded).
Purpose	► Educates consumers about lead health effects, sources, and steps to minimize exposure.
Delivery Method	 CWSs: deliver materials to bill-paying customers and post lead information on water bills, work in concert with local health agencies to reach at-risk populations (children, pregnant woman), deliver to other organizations serving "at-risk" populations, provide press releases, include new outreach activities from list in 40 CFR 141.85(a)(2)(vi), and post to Web site (CWSs serving > 100,000 only). NTNCWSs: posting and distribution to all consumers (can be electronic with State permission). Can apply to CWSs such as hospitals and prisons where population cannot make improvements.
Timing	 Within 60 days after end of monitoring period in which Pb AL was exceeded if not already delivering PE.⁶ Repeat annually except: water bill inserts - quarterly; press releases - 2x/year, and Web posting - continuous. Can discontinue whenever ≤ Pb AL but must recommence if subsequently exceed Pb AL.
⁶ State may allow	extension in some situations. Also, State may require approval of message content prior to delivery.
Source Wate	Monitoring and Source Water Treatment (SOWT)
Applicability	▶ Systems that exceed Pb or Cu AL.
Purpose	▶ Determine contribution from source water to total tap water Pb and Cu levels and need for SOWT.
Timing	 One set of samples at each EPTDS is due within 6 months of first AL exceedance. System has 24 months to install any required SOWT. State sets maximum permissible levels (MPLs) for Pb and Cu in source water based on initial and follow-up source water monitoring.
Standard	Ground water PWSs monitor once during 3-year compliance periods; surface water PWSs monitor annually.
Reduced	Monitor every 9 years if MPLs are not exceeded during 3 consecutive compliance periods for ground water PWSs or 3 consecutive years for surface water PWSs.
Corrosion Co	ontrol Treatment (CCT)
Applicability	 All large systems except those meeting requirements of 40 CFR 141.81(b)(2) or (b)(3). Medium and small systems that exceed either AL; may stop CCT steps if ≤ both ALs for 2 consecutive 6-month periods but must recommence CCT if subsequently exceed either AL.
Study	All large systems except as noted above. If State requires study for small or medium systems, it must be completed within 18 months.
Treatment	 Once State determines type of CCT to be installed, PWS has 24 months to install. Systems installing CCT must conduct 2 consecutive 6 months of follow-up tap and WQP monitoring.
OWQPs	► After follow-up Pb/Cu tap and WQP monitoring, State sets OWQPs. Refer to WQP section above.
Lead Service	Line Replacement (LSLR)
Applicability	 Systems that continue to exceed the Pb AL after installing CCT and/or SOWT. Can discontinue LSLR whenever ≤ Pb AL in tap samples for 2 consecutive 6-month monitoring periods; must recommence if subsequently exceed.
Monitoring	Optional: Sample from LSL to determine if line must be replaced. If all samples are ≤ 0.015 mg/L, line is considered "replaced through testing"; must reconsider these lines if Pb AL is subsequently exceeded.

Required: Sample from any LSLs not completely replaced to determine impact on Pb levels.

- Notify customers at least 45 days prior to replacement about potential for increased Pb levels.

Must replace at least 7% of LSLs annually; State can require accelerated schedule.

If only portion of LSL is replaced, PWS must:



Call the Safe Drinking Water Hotline at 1-800-426-4791; visit the EPA Web site at http://water.epa.gov/drink; or contact your State drinking water representative.

June 2008

Replacement

CORROSION CONTROL PLAN INSTALL OR MODIFY CORROSION CONTROL ENTERPRISE WATER WORKS

As a Medium System 10,001-50,000, we follow State Guidelines as outlined in the ADEM Chapter 335-7-11 control of Lead and Copper Plan. See quick Reference Guide for Lead and Copper Rule.

The Enterprise Water Works Board would install and maintain Corrosion Control Equipment.

Enterprise Water Works

5/11 South Muen 7 () Bin 311000 Linterprise Albhama 36/331 1004 (334)347 12/11 Office for 1/34/348 26/13 Field Office for 347 0078

SAMPLE LETTER OUTSIDE NORMAL LIMITS - LEAD AND COPPER

CURRENT DATE

CUSTOMER NAME CUSTOMER ADDRESS

Dear:

The City of Enterprise Water Works appreciates your participation in the lead tap monitoring program. A lead level of 31 parts per billion was reported for the sample collected on July 21, 2010 at your location, 107 Pruitt Dr, Enterprise, AL 36330.

Your result is greater than the lead action level of 15 parts per billion. However the 90th percentile value for our water system was below the lead action level.

What Does This Mean?

Under the authority of the Safe Drinking Water Act, EPA set the action level for lead in drinking water at 15 ppb. This means utilities must ensure that water from the customer's tap does not exceed this level in at least 90 percent of the homes samples (90th percentile value). The action level is the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow. If water from the tap does exceed this limit, then the utility must take certain steps to correct the problem. Because lead may pose serious health risks, the EPA set a Maximum Contaminant Level Goal (MCLG) of zero for lead. The MCLG is the level of a contaminant in drinking water below which there is no known or expected risks to health, MCLGs allow for a margin of safety.

What Are The 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 more 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.

What Are The Sources Of Lead?

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The primary sources of lead exposure for most children are deteriorating lead-based paint, lead-contaminated dust, and lead-contaminated residential soil. Exposure to lead is a significant health concern, especially for young children and infants whose growing bodies tend to absorb more lead than the average adult. Although your home's drinking water lead levels were below the action level, if you are concerned about lead exposure, parents should ask their health care providers about testing children for high levels of lead in the blood.

What can I do to reduce exposure to lead in drinking water?

- ▶ Ran your water to flush out lead. If water hasn't been used for several hours, run water for 15-30 seconds [or insert a different flushing time if your system has representative data indicating a different flushing time would better reduce lead exposure in your community and if the State approves the wording] or until it becomes cold or reaches a steady temperature before using it for drinking or cooking. This flushes lead-containing water from the pipes.
- > Use cold water for cooking and preparing baby formula.
- Do not boil water to remove lead.
- ▶ Look for alternative sources or treatment of water.
- > Test your water for lead.
- ▶ Identify if you plumbing fixtures contain lead.

For More Information

Call us at 334-347-1211. For more information on reducing lead exposure around your home and the health effects of lead, visit EPA's Web site at www.cpa.gov/lead, call the National Lead Information Center at 800-424-LEAD, or contact your health care provider.

Sincerely.

Alan Mahan Pield Superintendent City of Enterprise Water Works

Enterprise Water Works

501 South Main

F.O. Box 311000

Interprise: Alabama 26,331,1000
(234347,1211

Other fax (334) 348,7611

Field Office fax (347,0078)

SAMPLE LETTER WITHIN NORMAL LIMITS - LEAD AND COPPER

CURRENT DATE

CUSTOMER NAME CUSTOMER ADDRESS

Dear:

The City of Enterprise Water Works appreciates your participation in the lead tap monitoring program. A lead level of less than 3 parts per billion was reported for the sample collected on July 21, 2010 at your location, 110 Red Wing., Enterprise, AL 36330.

We are happy to report that your result as well, as the 90th percentile value for our water system, is below the lead action level of 15 parts per billion.

What Does This Mean?

Under the authority of the Safe Drinking Water Act, EPA set the action level for lead in drinking water at 15 ppb. This means utilities must ensure that water from the customer's tap does not exceed this level in at least 90 percent of the homes samples (90th percentile value). The action level is the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow. If water from the tap does exceed this limit, then the utility must take certain steps to correct the problem. Because lead may pose serious health risks, the EPA set a Maximum Contaminant Level Goal (MCLG) of zero for lead. The MCLG is the level of a contaminant in drinking water below which there is no known or expected risks to health, MCLGs allow for a margin of safety.

What Are The 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 more 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

For More Information

Call us at 334-347-1211. For more information on reducing lead exposure around your home and the health effects of lead, visit EPA's Web site at www.epa.gov/lead, call the National Lead Information Center at 800-424-LEAD, or contact your health care provider.

Sincerely,

Alan Mahan Field Superintendent City of Enterprise Water Works

City of Enterprise Water Works Board P. O. Box 311000 Enterprise, AL 36331-1000

SAMPLE DATE	LOCATION (Physical Address)	LEAD RESULTS Action Level 15 ppb	COPPER RESULTS Action Level 1.3ppm
(year) Lead and (Copper Water Distribution S	System Analysis Results	
the City of Enterprise Wa	ter Works Board distributio	n system.	
=	the lead and copper result		mpliance monitoring of
(Environmental Protection household taps twice a year present above 1.3 ppm in above these levels, the sy year. Once a water system	and copper became effectiven Agency) required your was ear and analyze them to find more than 10 percent of all astern would be required to me demonstrated satisfacto Environmental Managemer	ater supplier to collect water d out if lead is present about If homes tested. If lead and continue to monitor these ry action levels and maintai	er samples from ve 15 ppb or copper is l copper were present contaminants twice a ined the ranges, the
• •	r customers informed aboute aboute the are pleased to provide the	_	•
WATER DISTRIBUTION	JN 5151EM(YEAR) LEAD AND COPPE	R ANALYSIS KESULIS

ı	SAMPLE DATE	LOCATION	LEAD RESULTS	COPPER RESULTS
ı		(Physical Address)	Action Level 15 ppb	Action Level 1.3ppm
ſ				
•			 	<u> </u>

DEFINITIONS:

Action Level or AL - the concentration of a contaminant that triggers treatment or other requirement a water system shall follow.

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.

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.

If contaminant levels are found to be consistently above the Action Level, your water supplier must take steps to reduce the amount of lead so that it is consistently below that level. The following treatment methods have been approved by EPA for controlling lead: Corrosion Control.

Steps you can take to reduce exposure to lead in drinking water:

Let the water run from the tap before using it for drinking or cooking any time the water in a faucet has gone unused for more than six hours. The longer water resides in the plumbing the more lead it may contain. Flushing the tap means running the cold water faucet until the water gets noticeable colder, usually about 15-30 seconds. Although toilet flushing or showering flushes water through portion of your home's plumbing system, you still need to flush the water in each faucet before using it for drinking or cooking. Flushing tap water is a simple and inexpensive measure you can take to protect your health. It usually uses less than one gallon of water. Try not to cook with or drink water from the hot water tap. Hot water can dissolve more lead more quickly than cold water. If you need hot water, draw water from the cold tap and heat it on the stove.

The steps described above will reduce the lead concentrations in your drinking water. However, if you are still concerned, you may want to use bottled water for drinking and cooking. You can consult a variety of sources for additional information. Your family doctor or pediatrician can perform a blood test for lead and provide you with information about the health effects of lead.

For more 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.

For more information, you can contact us at the City of Enterprise Water Works.

Contact: Alan Mahan Phone Number: Office 334-348-2652 Cell 334-406-3088

Lead and Copper Customer Notification Certification Form

Water System Name:	City of Enterprise Water Works Board
PWSID NO:	A10000296
Notification Date:	
	I Lead and Copper Consumer Notification Report for the above System has been distributed to customers, in accordance with de 335-7-11-18 (b).
CERTIFIED BY:	
Signature:	
Printed Name:	
Title:	
Phone No.	
Date:	

^{*} Attach a copy of the Consumer Notification

Enterprise Water Works

Water Board Members John L. Mitchell, Jr., Chairman Ben Beckham, Jr. Eugene Goolsby

501 South Main P.O. Box 311000 Enterprise, Alabama 36331-1000 (334)347-1211 Office fax: (334) 348-2613 Field Office fax: 347-0078 Water Superintendent: Mayor William Cooper Field Superintendent: Alan Mahan

April 14, 2022

Lead and Copper Materials Inventory

Enterprise Water Works System has approximately 342 miles of water lines in its distribution system serving approximately 17,140 customers. Of those 342 miles, approximately 172 miles of cast/ductile iron, 163 miles of PVC, 3 miles of asbestos cement and 4 miles of galvanized lines exist. Contained within the system are items that contain the following:

LEAD:

- Lead Caulking
- Lead Piping
- Lead Alloys
- Home Plumbing with Lead Components

COPPER:

- Copper Piping
- Copper Alloys
- · Copper Service Lines
- · Home Plumbing with Copper Components

Locations of these items are as follows:

Lead piping connections could exist on service lines along Main Street, College Street, Adams Street and Brunson Street, which were installed from 1903 through approximately 1925. No complete lead service line from the tap to the meter has ever been discovered in the Enterprise Water System.

- Approximately 15 miles of lead calk cast iron piping has been replaced since 1993 in the Enterprise Water System. There is about 15 miles remaining in the system. Some areas include: From the 100 block to the 500 Block of N. Main St.; From the 100 Block to the 400 Block of S. Main St.; The 200 Block and 300 Block of W. College St.; The 100 Block and 200 block of W. Brunson St.; The 100 block of E. Brunson St.; The 100 block of West Harrison and East Harrison; All of North Edwards Street and South Edwards Street. These areas are in the Downtown Historical District, but are not limited to this area. Currently the Water Board is in the designing stage to replace lead joint pipe in the downtown area in 2022 and beyond.
- There are approximately 17,140 water service lines in the Enterprise Water System. The services are
 .017% Galvanized, .006% PVC, 39% Polyethylene Service Tubing, 58% Copper Service Tubing, and
 .0008% Ductile Iron Pipe. We use brass compression fittings with rubber gaskets. No lead/brass fittings
 used since 2013.
- Of the approximately 17,140 brass water meters in the water system, approximately 5,000 of them do not meet the low lead standards introduced in the "Reduction of Lead in Drinking Water Act" enacted January 4, 2014. Since the new law, all meters we have replaced conforms to the "Reduction of Lead in Drinking Water Act" and carries the NSF/ANSI 61-G low certification.
- We estimate approximately 30% of the homes and other structures in our system contain lead and copper plumbing. Of that group we estimate 20% were built on or before 1983.

For more information about how Enterprise Water Works System conducted its Lead and Copper Materials Inventory, please contact:

Alan Mahan, Field Superintendent Phone: 334-348-2652 or 334-406-3088 Email: amahan@enterpriseal.gov

POLYENVIRONMENTAL CORPORATION CHAIN OF CUSTODY

1885 Heedland Ave. Dethen, AL 38303 Phone: (334) 783-4700					1	PO Box 857 Dothen, AL 38502 FAX: (334) 677-8477
Client:				Facility:		
Address:				Location:		
City, State:		ZIP:		Name of Sempler		
Semple Location (Outst No., tribute, Elbert, Elb.)	Preservative	Sample Date / Time	Sample Type Cocpode, God, Bu	Sample Frequency Coly, Suni-Annual, Em.	Analysia	Required
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For Weste Water Sample	. 2-1					
Let states exerts desiring	a City:				For Storm Weter	Sembres Curbs
Flow: National State State	(mpd)				Reinfell:	(inchas)
Relinguished By: (Signature)		,	•	Received By: (Signature)		
			Octo / Time			Octo / Yimo
_			Date / Time	<u> </u>		Oxio / Yime
Samples Shipped On the	(Yes/No)				Tumeround Time	(Rush/Normal)

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT WATER DIVISION - WATER SUPPLY PROGRAM

CHAPTER 335-7-11 CONTROL OF LEAD AND COPPER

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- 335-7-11-.01 <u>Definitions</u>. When used in this chapter, the following words and terms shall have the meaning assigned to them as shown.
- (a) Action Level--The concentration of lead or copper in water which is used to determine compliance with these regulations. This action level value is the 90th percentile level determined from monitoring water at specific sites in the distribution system.
- (b) Corrosion inhibitor--A substance capable of reducing the corrosivity of water towards metal plumbing materials, especially lead and copper, by forming a protective film on the interior surface of those materials.
- (c) Compliance Limit--the level of 0.015 mg/l of lead and 1.3 mg/l of copper in drinking water. To determine compliance, a system shall compare its lead/copper action levels with these values.
- (d) Effective Corrosion Inhibitor Residual--A concentration of corrosion inhibitor sufficient to form a passivating film on the interior walls of a pipe.

- (e) First draw sample—A one liter 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 non-residential building collected at a tap used for water consumption.
- (f) Large water system-A public water system serving 50,000 or more persons.
- (g) Lead Service line—A water service line made of lead connecting the water main to a building inlet. This service line includes all fittings attached or connected to it.
- (h) Medium size water system—A public water system that serves greater than 3,300 population and less than 50,000 population.
- (i) Optimal corresion control treatment—Treatment of the water that minimizes the lead and copper concentrations at users taps while ensuring that the treatment does not cause non-compliance with other established drinking water standards.
- (i) Service line sample-A one liter sample of water which has been standing in a lead service line for at least six hours.
- (k) Single family structure—A building constructed as a single family residence that is currently used as either a residence or a place of business.
- (i) Small water system-A public water system that serves 3,300 population or less.

Author: Joe Alan Power.

Statutory Authority: <u>Code of Alabama</u> 1975, §§ 22-23-33, 22-22A-5, 22-22A-6.

History: Adopted: September 23, 1992. Effective: November 9, 1992.

335-7-11-.02 Applicability. The regulations established by this chapter apply to all community and NTNC water systems. All water systems shall establish water treatment techniques to produce a non-aggressive water to minimize the exposure to its consumers of lead and copper which may be present in the materials of construction, both in the water system and in customer plumbing. Additional steps may be necessary to minimize exposure to lead and copper by replacing water distribution piping and appurtenances.

Author: Joe Alan Power.

Statutory Authority: <u>Code of Alabama</u> 1975, §§ 22-23-33, 22-22A-5, 22-22A-6.

History: Adopted: September 23, 1992. Effective: November 9, 1992.

335-7-11-.03 Compliance with Lead and Copper Levels. All water systems shall determine a lead and copper action level based on the monitoring requirements established in this chapter. A system is considered in compliance if the lead action level is equal to or less than the lead compliance limit (0.015 mg/l) and the copper level is equal to or less than the copper compliance limit (1.3 mg/l.) This action level shall be determined using all monitoring at the selected sites, not just the minimum shown in Table 11-1.

Author: Joe Alan Power.

Statutory Authority: <u>Code of Alabama</u> 1975, §§ 22-23-33, 22-22A-5, 22-22A-6.

History: Adopted: September 23, 1992. Effective: November 9, 1992.

835-7-11-.04 Initial Manitosing to Retablish Action Levels.

- (1) All new community and NTNC water systems shall monitor for lead and copper at the number of established monitoring sites for two consecutive six-month monitoring periods starting the first six-month period the system is in operation.
- (2) Any community and NTNC water system that exceeds a lead or copper action level shall monitor for lead and copper at the number of established monitoring sites during at least two consecutive six-month compliance periods.
- (3) Any water system which has demonstrated satisfactory action levels and maintains the range of values for the water quality control parameters reflecting optimal corrosion control treatment specified by the Department during two consecutive six-month monitoring periods may reduce monitoring sites and frequency of monitoring to once per year if it receives written approval from the Department. The number of initial and reduced monitoring sites is shown in Table 11-1. The reduced monitoring shall begin during the calendar year immediately following the end of the second consecutive six-month monitoring period.
- (4) A community or NTNC water system that significantly changes the source of its drinking water, its treatment to control the corresivity of the water or if the source water quality significantly changes, may be required by the Department to conduct initial monitoring under this rule.

Author: Joe Alan Power, Dennis D. Harrison.

Statutory Authority: Code of Alabama 1975, §§ 22-23-33, 22-22A-5, 22-22A-6.

History: Adopted: September 23, 1992; Amended: September 19, 1995 (ER); November 28, 1998. Effective: January 2, 1996.

Amended: March 12, 2002; January 22, 2008; May 26, 2009; November 25, 2014.

335-7-11-.05 Repeat Monitoring Requirements.

- (1) Systems monitoring on a yearly basis shall use the number of reduced monitoring sites shown in Table 11-1. All monitoring must be taken from previous sites and must be collected during June, July, August, or September of that year unless the water system receives written approval from the Department for an alternative monitoring period.
- (2) After three consecutive years of demonstrating satisfactory action levels, a small or medium water system may reduce monitoring to once every three years.
- (3) After three consecutive years of demonstrating satisfactory action levels and maintaining the range of values for the water quality control parameters reflecting optimal corrosion control treatment specified by the Department, any water system may reduce monitoring sites and frequency of monitoring to once every three years with written approval from the Department.
- (4) A system with a 90th percentile level less than or equal to .005 mg/L for lead and 0.65 mg/L for copper for two consecutive six-month periods may reduce monitoring to once every three years.
- (5) Any system exceeding a lead or copper compliance limit shall increase monitoring consistent with the initial monitoring compliance requirements. Monitoring must be collected from the initial sites and monitoring must take place during six-month compliance cycles (January June or July December) until compliance is achieved. Monitoring shall begin with the next available compliance cycle after the exceedance occurred. If optimum corrosion control treatment or source water treatment is initiated by the system, monitoring during six-month compliance cycles must continue for two six-month periods after the treatment has been installed demonstrating compliance with the compliance limits.
- (6) Any system that fails to operate at or above the minimum value or within the range of values for the water quality parameters specified by the Department for more than nine days in any six-month period shall increase monitoring consistent with the initial monitoring compliance requirements. Monitoring must be conducted utilizing the initial monitoring sites and monitoring must take place during six-month compliance cycles January June or July December) until compliance is achieved. Monitoring shall begin with the next available compliance cycle after the exceedance occurred.
- (7) A system may be allowed to monitor during months other than June, July, August and September. The alternate monitoring period shall be no longer than four months in duration when the highest lead levels are likely to occur. Systems monitoring annually must conduct their next round of monitoring during a time period that ends no later than 21 months after the previous round of monitoring. Systems monitoring every three years must

conduct their next round of monitoring during a time period that ends no later than 45 months after the previous round of monitoring.

Author: Joe Alan Power.

Statutory Authority: Code of Alabama 1975. 88 22-23-33, 22-22A-5, 22-22A-6.

History: Adopted: September 23, 1992; Amended: September 19, 1995 (ER); November 28, 1995. Effective: January 2, 1996.

Amended: March 12, 2002; May 26, 2009; November 25, 2014.

335-7-11-.06 Humber of Load-Copper Monitoring Sites. Water systems shall collect at least one sample during each monitoring period from the number of sites established by Table 11-1. A system conducting reduced monitoring under this rule shall collect at least one sample from the number of sites specified in the Reduced Monitoring Sites column below. Such reduced monitoring sites shall be representative of the sites required for standard monitoring. A public water system that has fewer than five drinking water tans that can be used for human consumption shall collect at least one sample from each tap and then shall collect additional samples from those taps on different days during the monitoring period to meet the required minimum number of sample sites list in Table 11-1. Under no circumstance can a water system reduce the minimum number of samples below 5 per monitoring period.

Table 11-1 Lead/Coffee Monitoring Sites					
Population Initial Monitoring Reduced I					
> 100,000	100	\$0			
10,001-100,000	60	80			
3,301-10,000	40	20			
501-3,300	20	10			
101-500	10	8			
≤ 100	5	5			

Author: Joe Alan Power.

Statutory Authority: Code of Alabama 1975, 88 22-23-33, 22-22A-5, 22-22A-6.

History: Adopted: September 23, 1992. Effective: November 9, 1992.

Amended: March 12, 2002; May 26, 2009; November 25, 2014.

335-7-11-.07 Manitoring Site Selection. Only monitoring conducted utilising acceptable sites can be used to determine compliance with this chapter. Water systems shall complete a materials evaluation of its distribution system to identify targeted sample sites. Sufficient sample sites shall be selected to allow an availability of acceptable sites and thus allow monitoring based on the number of samples required in Table 11-1.

(a) Monitoring sites for Community systems—Community water systems must conduct all lead and copper monitoring utilizing tier one sites or document the lack of sufficient sites and conduct the remaining monitoring from tier two sites. Water systems with insufficient tier one and two sites may utilize tier three sites. A community water system with insufficient tier one, two or three sites shall monitor utilizing replacement sites throughout the distribution system. A replacement site is a site in which the plumbing materials used at that site would be commonly found at other sites served by the water system but not conforming to tier one, two or three requirements.

- 1. Any water system whose distribution system contains lead service lines shall conduct at least 50% of the monitoring from these sites during each monitoring period. Monitoring shall be conducted from the lead service line. Should a sufficient number of sites be unavailable to provide 50% of the required monitoring, written documentation is necessary to demonstrate why the system was unable to locate a sufficient number of such sites.
- 2. There one sites—These sites include single family structures containing lead pipe or plumbing, are served by a lead service line, or contain copper pipes with lead solder and were constructed after 1982.
- 3. Tier two sites—These sites include buildings and multiple family residences containing lead pipe or plumbing, are served by a lead service line, or contain copper pipes with lead solder and were constructed after 1982.
- 4. Tier three sites—These sites include single family structures containing copper pipes with lead solder which were constructed prior to 1983.
- (b) Monitoring sites for NTNC water systems—NTNC systems shall conduct all lead and copper monitoring from tier one sites. Systems with insufficient tier one sites may use tier two sites and those systems consisting of fewer structures than required sites may collect more than one sample at a structure, but from different spigots which consist of building containing copper pipes with lead solder installed before 1983. A NTNC water system with insufficient tier one or two sites shall conduct the remaining monitoring from replacement sites throughout the distribution system. A replacement site is a site in which the plumbing materials used at that site would be commonly found at other sites served by the water system but not conforming to tier one or two requirements.
- 1. There One Sites—These sites include buildings with lead pipes or plumbing, are served by a lead service line or contain copper pipes with lead solder constructed after 1982.
- 2. Tier Two Sites.—These sites include buildings with copper pipes and lead solder constructed before 1983.
- (c) Lead service line samples—Any water system whose distribution system contains lead service lines shall conduct 50% of the monitoring from sites served by a lead service line each monitoring period. If a sufficient number of sites served by a lead service line cannot be identified, all identified sites shall be monitored.

Author: Joe Alan Power.

Statutory Authority: <u>Code of Alabama</u> 1975, §§ 22-23-33, 22-22A-5, 22-22A-6.

History: Adopted: September 23, 1992. Effective: November 9, 1992. Amended: March 12, 2002.

335-7-11-.08 <u>Lead/Copper Monitoring Collection Procedures</u>. Tap and service line monitoring shall be collected in accordance with the following:

- (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.
- (b) Service line monitoring shall be one liter in volume and have remained in the lead service line for at least six hours prior to collection. Service line monitoring may be collected directly by tapping into the lead service line, or by flushing the volume of water between the tap and the lead service line until either the calculated amount of water between the tap and the service line has been discharged or for single family residences until there is a significant change in temperature which would indicate the water available was standing in the lead service line.
- (c) Water systems with insufficient taps that can supply first draw samples may apply to the state in writing to substitute non-first-draw samples. These systems must collect as many of the samples as possible from first-draw taps and identify the monitoring times and locations that would likely result in the longest standing times for the remaining samples. Non-first-draw samples shall be one liter in volume and collected from an interior tap from which water is typically drawn for consumption.

Author: Joe Alan Power.

Statutory Authority: <u>Code of Alabama</u> 1975, §§ 22-23-33, 22-22A-5, 22-22A-6.

History: Adopted: September 23, 1992. Effective: November 9, 1992. Amended: March 12, 2002.

335-7-11-.09 <u>Invalidation of Load or Couner Tap Water Samples</u>. A sample invalidated under this rule does not count toward 90th percentile levels or toward meeting minimum monitoring requirements.

- (a) A sample may be invalidated for one of the following reasons.
- 1. The laboratory establishes that improper sample analysis caused erroneous results.
- 2. The State determines that the sample was taken from a site that did not meet the site selection criteria of this rule.
 - 3. The sample container was damaged in transit.
- 4. There is substantial reason to believe that the sample was subject to tampering.
- (b) The system must report the results of all samples to the State and all supporting documentation for samples the system believes should be invalidated.
- (c) The water system must collect replacement samples for any samples invalidated under this rule if, after the invalidation of one or more samples, the system has not collected the minimum number of samples. Any such replacement samples must be taken as soon as possible, but no later than 20 days after the date the State invalidates the sample or by the end of the applicable monitoring period, whichever occurs later. Replacement samples taken after the end of the applicable monitoring period shall not also be used to meet the monitoring requirements of a subsequent monitoring period. The replacement samples shall be taken at the same locations as the invalidated samples or, if that is not possible, at locations other than those already used for monitoring during the monitoring period.

Author: Thomas S. Deloach.

Statutory Authority: <u>Code of Alabama</u> 1975, §§ 22-23-33, 22-22A-5, 22-22A-6.

History: March 12, 2002. Amended: January 22, 2008.

335-7-11-10 <u>Monitoring Waivern</u>. A small system that meets the requirements of this rule may apply to the state to reduce the frequency of monitoring for lead and copper to once every nine years.

- (a) The system must submit a materials survey showing the system is free of lead and copper containing materials as detailed below.
- 1. It contains no plastic pipes which contain lead plasticizers, or plastic service lines which contain lead plasticizers; and
- 2. It is free of lead service lines, lead pipes, lead soldered pipe joints, and leaded brass or bronze alloy fittings and fixtures, unless such fittings and fixtures meet the NSF Standard 61 Section 9.
 - 3. The system contains no copper pipes or copper service lines.

- (b) The system must have completed at least one six-month round of standard tap water monitoring for lead and copper demonstrating that the 90th percentile levels for all rounds of monitoring conducted since the system became free of all lead-containing and copper-containing materials were less than or equal to .005 mg/L for lead and 0.65 mg/L for copper.
- (c) A system that has been granted a waiver must monitor for lead and copper at the reduced number of monitoring sites specified in Table 11-1 every nine years. The system must also submit a materials survey along with the monitoring results.
- (d) A system must return to monitoring for lead and copper at least every three years if the system no longer meets than materials criteria, has a 90th percentile level for lead greater than .005 mg/L or a 90th percentile level for copper greater than .065 mg/L.
- (c) The system shall notify the Department within 60 days after determining the system is no longer free of materials that contain lead or copper.
- (4) Any water system with a waiver shall notify the Department of any upcoming long-term change in treatment or addition of a new source.

Author: Thomas S. DeLoach.

Statutory Authority: <u>Code of Alabama</u> 1975, §§ 22-23-33, 22-22A-5, 22-22A-6.

History: March 12, 2002.

Amended: May 30, 2003; January 22, 2008; May 26, 2009.

- 335-7-11-.11 <u>Action Level Mon-Compliance</u>. Any water system with an action level exceeding the compliance limit for lead or copper shall complete the following requirements in the manner and by the deadline established by these regulations:
- (a) Water systems must install and maintain adequate corrosion control treatment equipment to ensure that the lead/copper compliance limit can be met. The Department may require that an in-depth study be completed to determine the optimum corrosion control process for the system.
- (b) Systems installing corrosion control treatment requirements shall monitor the parameters at the frequency established by these regulations. All parameters established must be reported on the monthly operation data reports by the 10th of the following month. Exceedance of the established values which indicate optimum corrosion control is considered a treatment technique violation.
- (c) The lead and copper level in the source water serving the areas exceeding the compliance limit must be monitored to determine compliance with the primary drinking water standards in chapter 335-7-2. The source

must be taken out of service and provided with satisfactory treatment, approved by the Department, to reduce the lead or copper level to meet these drinking water standards.

- (d) A system that fails to meet the lead/copper compliance limit after the installation of corresion control shall develop a program to replace lead service lines. All lead service lines in the system shall be identified and at least 7% replaced on an annual basis. More rapid replacement may be required by the Department.
- (c) Systems which exceed the lead compliance limit shall deliver public educational materials according to the methods specified in the regulations. The language used in this public education notice must include specific language contained in the Appendix C.

Author: Joe Alan Power, Dennis D. Harrison.

Statutory Authority: Code of Alabama 1975, §§ 22-23-33, 22-22A-5, 22-22A-6.

History: Adopted: September 23, 1992; Amended: September 19, 1995 (ER); November 28, 1995. Effective: January 2, 1996.

Amended: March 12, 2002; January 22, 2008; September 25, 2012.

885-7-11-.12 <u>Correction Control Treatment Requirement</u>. Any water system which has been deemed to have optimized correction control and has correction control treatment in place shall continue to operate and maintain treatment to ensure that optimal correction control is maintained.

(a) All water systems with an action level which exceeds a lead or copper compliance limit and any new drinking water source proposed for use after the effective date of these regulations shall install and properly operate optimum corresion control processes continuously to reduce the potential for lead or copper exposure by the consumers. Within six months of exceeding the compliance limit a system shall provide a detailed report indicating the process and equipment to be used to provide corresion control treatment. Installation and start up of the equipment must be completed within 24 months of approval of the Department. A corresion control treatment study may be required by the Department to determine the optimum process to be installed. Those systems practicing corresion control in their treatment process prior to the effective date of these regulations and acceptable to the Department may have the treatment study requirements waived. Systems required to perform a corresion control treatment study shall complete the study and submit its results along with a proposal for the process to be used to the Department within 12 months of exceeding a compliance limit. This report must include a proposed construction schedule for installation of the equipment. This project must be completed no more than 24 months after the study submittal. All systems installing corrosion control treatment processes shall monitor initial site during the next two consecutive six-month compliance periods.

- (b) The water in a water system is considered to meet optimum corresion control when the distribution system:
- 1. Water quality parameters reflected on the Baylis Curve indicates no incrusting or corrosion will occur, or
 - 2. The Langelier Index of the water is between -1.0 to +2,
 - 3. The Ryznar Index is between 7 and 11,
- 4. A phosphate or silicate corresion inhibitor is continuously applied at the manufacturer/supplier recommended level resulting in minimum complaints, or
- 5. The Calcium Carbonate Precipitation Potential (CCPP) is maintained between 4-10 mg/l, and
 - 6. The water continuously meets the lead and copper compliance limits.
- (c) Any water system may be considered to optimize corrosion control treatment if it demonstrates that it has conducted activities equivalent to the corrosion control steps outlined in this rule. Water systems doesned to have optimized corrosion control under this subparagraph shall operate in compliance with the State-designated optimal water quality control parameters and continue to conduct lead and copper tap and water quality parameter monitoring as required by these regulations. The system shall provide to the Department:
- 1. The results of all monitoring for each of the water quality parameters listed in 335-7-11-.13(c):
- 2. A report explaining the test methods used by the water system to evaluate the corrosion control treatments listed in 335-7-11-13(a), the results of all tests conducted and the basis for the system's selection of optimal corrosion control treatment;
- 3. A report explaining how corresion control has been installed and how it is being maintained to ensure minimal lead and copper concentrations at consumer's taps; and
- 4. The information from tap water monitoring conducted in accordance with 335-7-11-.07 above the compliance limit.
- (d) Any water system is deemed to have optimized corresion control if it submits results of tap water monitoring conducted in accordance with 335-7-11-.08 and source water monitoring in accordance with 335-7-11-.15 that demonstrates for two consecutive six-month monitoring periods that the difference between the 90th percentile tap water level computed under 335-7-11-.03 and the highest source water lead concentration is less than 0.005 mg/l.

- 1. Those systems whose highest source water lead level is below the Method Detection Limit may also be deemed to have optimized corrosion control under this subparagraph if the 90th percentile tap water lead level is less than or equal to 0.005 mg/l for two consecutive 6-month monitoring periods.
- 2. Any water system deemed to have optimized corrosion control in accordance with this subparagraph shall continue to monitor for lead and copper at the tap no less frequently than once every three calendar years using the reduced number of monitoring sites and conducting the monitoring at times and locations specified in these regulations.
- 3. Any water system deemed to have optimized corrosion control shall notify the Department in writing pursuant of any change in treatment or the addition of a new source. Any new source or long-term change in water treatment shall have written approval from the Department before being placed into service or implemented. The system may be required to conduct additional monitoring or to take other action to ensure that the system maintains minimal levels of corrosion in the distribution system.
- 4. Any system triggered into corrosion control because it is no longer deemed to have optimized corrosion control under this subparagraph shall implement corrosion control treatment in accordance with the deadlines in the regulations. Large systems shall adhere to the schedule specified in the paragraph for medium size systems; with the time periods for completing each step being triggered by the date the system is no longer deemed to have optimized corrosion control under this paragraph.

Author: Joe Alan Power, Dennis D. Harrison.

Statutory Authority: <u>Code of Alabama</u> 1975, §§ 22-23-33, 22-22A-5, 22-22A-6.

History: Adopted: September 23, 1992; Amended: September 19, 1995 (ER); November 28, 1995. Effective: January 2, 1996.

Amended: March 12, 2002; January 22, 2008; May 26, 2009; January 18, 2011; September 25, 2012;

- 335-7-11-.13 <u>Carrosion Control Study</u>. Systems proposing to use a new source or exceeding the lead and copper compliance limit may be required to conduct and submit a corrosion control study to determine the optimum corrosion control process to minimise exposure of lead and copper to the consumers.
- (a) Any water system performing a corrosion control study shall evaluate the effectiveness of each of the following treatment processes and if appropriate, any combination of these processes:
 - 1. Alkalinity and pH adjustment,
 - 2. Calchum hardness adjustment, and

- 3. The addition of a phosphate or silicate based corresion inhibitor at a concentration to maintain an effective residual in the distribution system.
- (b) The study shall use either a pipe-loop test, metal coupon test, partial system test, or analysis based on documented treatment activities from other water systems with similar water chemistry, similar system size, and same distribution system configuration.
- (c) The following water quality parameters shall be measured during the test conducted to allow proper evaluation of the processes:
 - 1. Lead
 - 2. Copper
 - 3. pH
 - 4. Total alkalinity
 - 5. Calcium
 - 6. Conductivity
 - 7. Orthophosphate (when a phosphate inhibitor is evaluated)
 - 8. Silicate (when a silicate compound is evaluated)
 - 9. Water temperature
- (d) The study shall identify all chemical or physical constraints that may limit or prohibit the use of a particular corrosion treatment method, identify any previously used corrosion control treatment that was found ineffective, or adversely affected any treatment processes, shall evaluate the effect of the proposed chemicals to be used on the water quality treatment processes demonstrating adequate corrosion control, and shall provide a recommendation of the proposed process to be installed.
- (e) information to be included with the recommended process shall include cost of the proposed installation, equipment to be used including model number and brand, chemical to be added including proposed concentration rate, NSF approval document, and availability information on the chemical and a construction schedule demonstrating the equipment can be operational within 24 months of the study submittal. After review of the recommended process, the Department will determine the optimum corresion control process and the water quality parameter values. Lead and copper monitoring shall continue each six-month compliance period from the date the parameter values are set.

Author: Joe Alan Power.

Statutory Authority: <u>Code of Alabama</u> 1975, §§ 22-23-33, 22-22A-5, 22-22A-6.

History: Adopted: September 23, 1992; Amended: September 19, 1995 (ER); November 28, 1995. Effective: January 2, 1996.

Amended: March 12, 2002: September 25, 2012.

335-7-11-.14 Corresion Control Parameter Menitoring Requirements.

- (1) All large water systems and water systems utilizing a corresion control process to meet the requirements established under rule 335-7-11-.12 shall begin monitoring within ten days of process activation.
- (2) Monitoring parameters will be determined for each specific water system and may include requirements for monitoring pH, alkalinity, orthophosphate, silica, calcium, conductivity, water temperature, and other parameters designated by the Department. Compliance may be demonstrated by monitoring the treated water from each individual source for designated parameters on a daily and weekly basis or by establishing distribution system locations and monitoring during six-month monitoring periods (January June or July December). Compliance monitoring shall begin with the next full six-month period.
- (a) Systems using the Baylis Curve may demonstrate proper corrosion control by monitoring the treated water from each water source on a daily basis for pH and total alkalinity. Should the system utilize the Langelier Index or Rymar Index for evaluating the corrosive level of the water, the treated water from each source must be monitored for pH and alkalinity daily and calcium, water temperature, and hardness on a weekly basis. Should an orthophosphate or allicate inhibitor be used, the system shall monitor pH on a daily basis and the phosphate or allicate level on a weekly basis for each treatment facility.
- (b) With the approval of the Department, a system may select representative sites throughout the distribution system, taking into consideration the number of different sources of water, different treatment methods, seasonal variability, and density of service. The number of sites must be no less than those designated in Table 11-2.

TABLE 11-9 Water Quality Menitoring	
Population	Humber of ettes
> 100,000	25
10,001-100,000	10
8301-10.000	3
501-8800	2
<500	1

(c) Two samples shall be obtained from each of the designated sites and two samples shall be obtained from each entry point from a treatment facility

operating under normal conditions and analyzed for pH, alkalinity, Orthophosphate, (when a phosphate compound is used), allica (when a silicate compound is used), calcium, conductivity, and water temperature. These samples shall be collected each six-month monitoring period and reported by the 10th of the following month after samples are collected.

- (d) All systems optimizing corresion control shall continue to operate and maintain optimal corresion control treatment, including maintaining water quality parameters at or above minimum values or within ranges designated by the State for all monitoring conducted. Compliance with the requirements of this subparagraph shall be determined every six months. A water system is out of compliance for a six-month period if it has excursions for any State-specified parameter on more than nine days during the period. An excursion occurs whenever the daily value for one or more of the water quality parameters measured at a monitoring location is below the minimum value or outside the range designated by the State. Daily values are calculated as follows:
- 1. On days when more than one measurement for the water quality parameter is collected at the monitoring location, the daily value shall be the average of all results collected during the day regardless of whether they are collected through continuous monitoring, grab monitoring, or a combination of both.
- 2. On days when only one measurement for the water quality parameter is collected at the monitoring location, the daily value shall be the result of that measurement.
- 3. On days when no measurement is collected for the water quality parameter at the monitoring location, the daily value shall be the daily value calculated on the most recent day on which the water quality parameter was measured at the site.
- (3) The water system shall maintain water quality parameter values within the ranges established by the Department to demonstrate production of satisfactory water. Should an analysis indicate a value outside the established level, immediate steps shall be taken to adjust the treatment process and conduct additional monitoring within 24 hours to verify compliance with acceptable value(s). Analysis of corresion control parameters shall be conducted using analytical methods established by EPA.
- (4) Any small or medium-sized systems shall conduct water quality parameter monitoring according to the requirements of this rule when the water system exceeds the lead or copper action level.
- (5) Any water system that maintains the range of values for the water quality parameters reflecting optimal corrosion control treatment during three consecutive years of monitoring may reduce the frequency of monitoring to once per year if it receives written approval from the Department. The reduced monitoring shall begin during the calendar year immediately following the end of the monitoring period in which the third consecutive year of six-month

monitoring occurs. Any water system that maintains the range of values for the water quality parameters reflecting optimal corrosion control treatment during three consecutive years of annual monitoring may reduce the frequency of monitoring to every three years if it receives written approval from the Department. The sampling begins no later than the third calendar year following the end of the monitoring period in which the third consecutive year of monitoring occurs.

Author: Joe Alan Power, Dennis D. Harrison.

Statutory Authority: <u>Code of Alabama</u> 1975, §§ 22-23-33, 22-22A-5, 22-22A-6.

History: Adopted: September 23, 1992; Amended September 19, 1995 (ER); November 28, 1995. Effective: January 2, 1996.

Amended: March 12, 2002; January 22, 2008; May 26, 2009; November 25, 2014.

338-7-11-.15 Source Water Monitoring and Treatment. Any system which exceeds the lead or copper compliance limit must analyze the treated water for the contaminant using the same methodology and location as required for inorganic contaminants in each source used by the system. This analysis must be completed within 180 days after the exceedance. Should these levels exceed 0.015 mg/l lead or 1 mg/l copper, confirmation monitoring must be collected within 7 days. The value of the initial and all confirmation monitoring will be averaged. Treatment modifications must be installed which will result in the finished water meeting the drinking water standard. Unless written approval by the Department is given, the source will be taken out of service within 60 days and remain out of service until these additional treatment requirements are provided. Prior to reactivation of this source, monitoring of the treated water shall demonstrate compliance with drinking water standards and a second set of lead and copper monitoring conducted in six months. All initial sites for lead and copper shall be monitored for the next two six-month compliance periods. Modifications to the treatment process must be approved and permitted by the Department.

Author: Joe Alan Power.

Statutory Authority: <u>Code of Alabama</u> 1975, §§ 22-23-33, 22-22A-5, 22-22A-6.

History: Adopted: September 23, 1992; Amended: September 19, 1995 (ER); November 28, 1995. Effective: January 2, 1996. Amended: March 12, 2002; May 26, 2009.

385-7-11-.16 Load Service Line Replacement.

(1) Systems which exceed the compliance limit for lead after installation or modification of corrosion control processes or source water treatment and which contain lead service lines shall identify the number and location of lead service lines and develop and implement a removal action plan.

- (a) This plan shall identify the number of lines, including an identification of the portion owned by the system, general distribution locations, cost of replacement, proposed disposal site for removed lines, and a time achedule for removal.
- (b) This plan shall be provided within six months of exceeding the compliance limit and shall be implemented within twelve months of the end of the monitoring period in which the exceedance occurred. If the monitoring frequency is annual or less, the end of the monitoring period is September 30 of the year in which the sampling occurred.
- (c) The plan shall provide for full replacement of all services lines, except those excluded in the following subparagraphs, within 15 years.
- 1. At least 7% of the initial number of lead service lines shall be replaced annually. Lead service lines which have demonstrated to meet the compliance limit for lead through service line monitoring can be excluded from the process. The state may require a water system to replace more than 7% of the lead service lines annually.
- 2. The plan shall demonstrate the legal ownership of service lines and if the water system does not control or own the entire lead service line up to the building, it shall include provisions to notify the customer of its existence and offer to replace that service line for a fair and equitable cost.
- 3. The process of replacing service lines may cease when the system can demonstrate through two consecutive monitoring periods that first draw samples collected from lead service lines are meeting the compliance limit due to enhanced corresion control activity.
- 4. A water system that does not replace the entire length of the service line shall comply with the following:
- (i) At least 45 days prior to commencing with the partial replacement of a lead service line, the water system shall provide notice to the residents of all buildings served by the line explaining that they may experience a temporary increase of lead levels in their drinking water, along with guidance on measures consumers can take to minimize their exposure to lead. The Department may allow the water system to provide this notice less than 45 days prior to commencing partial lead service line replacement where such replacement is done in conjunction with emergency repairs. In addition, the water system shall inform the residents served by the line that the system will, at the system's expense, collect a sample for a lead analysis from each partiallyreplaced lead service line within 72 hours after the completion of the partial replacement of the service line. The system shall collect the sample and report the results of the analysis to the owner and the residents served by the line within three business days of receiving the results. Mailed notices post-marked within three business days of receiving the results shall be considered "on time."

- (ii) The water system shall provide the information required by this rule to the residents of individual dwellings by mail or by other methods approved by the Department. In instances where multi-family dwellings are served by the line, the water system shall have the option to post the information at a conspicuous location.
- (2) The process of replacing service lines may cease when the system can demonstrate through two consecutive monitoring periods that first tap draw monitoring conducted from lead service lines are meeting the compliance limit due to enhanced corrosion control activity. If first draw tap monitoring in any such system thereafter exceeds the lead action level, the system shall recommence replacing lead service lines as required by this rule.
- (3) A water system resuming a lead service line replacement program after the cessation of its lead service line replacement program shall update its inventory of lead service lines to include those sites that were previously determined not to require replacement under subparagraph (1)(c)1.
- (a) The lead service line replacement program shall be completed within 15 years. The 15 years shall include any previous time allowed under this rule.
- (b) If a system has completed a 15 year replacement program, any exceedance of the action level will require the system to consult with the Department to determine a retesting or replacement schedule for the remaining lead service lines in the system.

Author: Joe Alan Power, Thomas S. DeLoach, Dennis D. Harrison.

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335-7-11-.17 Public Education Requirement.

- (1) Water systems shall provide each customer with the results of any lead and copper monitoring conducted at the customer's tap. These results shall be provided to the customers within 30 days of receipt of the results by the water system.
- (a) In addition to the results, the water system shall provide an explanation of the health effects of lead, steps consumers can take to reduce exposure to lead, the water system's contact information, maximum contaminate level goal (MCLG), the action level (AL) for lead and the definition of MCLG and AL.
- (b) The notice to the consumer shall be mailed or provided by an alternate method approved by the Department. Non-transient non-community

water systems may post the results on a bulletin board in the facility that is readily accessible by all employees.

- (c) Notice shall be provided to customers who do not receive a water bill.
- (2) Any water system with a lead action level that exceeds the compliance limit shall provide public education materials containing the required language located in paragraph (3) below to the consumers within sixty days of the end of the monitoring period unless the system is being required to meet the repeat public education requirements of this rule. In communities where a significant proportion of the population speaks a language other than English, this material shall be in the appropriate language. This information shall include specific guidance as presented and use the language in subparagraph (c) above. Systems may delete information pertaining to lead service lines, upon approval of the Department, if no lead service lines exist anywhere in the water system service area. Public education language may be modified regarding building permit record availability and consumer access to these records, if approved by the Department. Systems may also continue to utilize pre-printed materials that meet the public education language requirements.
- (3) A water system that exceeds the lead action level shall deliver the following public education materials in accordance with paragraph (4) of this rule.
 - (a) Content of written public education materials.
- Community and non-transient non-community water systems shall include the following elements in printed materials (brochures and pamphlets) in the same order as listed below. The information in paragraphs (i) and (ii) below shall be included exactly as written except for the text in brackets, where the information shall be water system specific.
- (i) IMPORTANT INFORMATION ABOUT LEAD IN YOUR DRINKING WATER. [INSERT NAME OF WATER SYSTEM] found elevated levels of lead in drinking water in some homes/buildings. Lead can cause serious health problems, especially for pregnant women and young children. Please read this information closely to see what you can do to reduce lead in your drinking water.
- (ii) 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 more 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.
 - fiil Sources of lead.
 - (I) Explain what lead is.

- (II) Explain possible sources of lead in drinking water and how lead enters drinking water. Include information on home/building plumbing materials and service lines that may contain lead.
- (III) Discuss other important sources of lead exposure in addition to drinking water (e.g. paints).
- (iv) Discuss the steps the consumer can take to reduce their exposure to lead in drinking water.
 - (1) Encourage running the water to flush out the lead.
- (II) Explain concerns with using hot water from the tap and specifically caution against the use of hot water for preparing baby formula.
 - (III) Explain that boiling water does not reduce lead levels.
- (IV) Discuss other options consumers can take to reduce exposure to lead in drinking water, such as alternative sources or treatment of water.
 - (V) Suggest that parents have their child's blood tested for lead.
- (v) Explain why there are elevated levels of lead in the system's drinking water (if known) and what the water system is doing to reduce the lead levels in homes/buildings in this area.
- (vi) Include information on where additional assistance may be obtained. The language which follows is suggested: For more information, call us at [INSERT PHONE NUMBER] or visit our website at [INSERT WEBSITE ADDRESS HERE] if applicable. For more information on reducing lead exposure around your home/building and the health effects of lead, visit EPA's website at http://www.cpa.gov/lead or contact your health care provider.
- 2. Any additional information presented by a water system shall be consistent with the information above and be in plain language that can be understood by the general public.
- 3. Any information provided to the public under this rule shall have prior written approval by the Department.
- (b) Community water systems shall also discuss lead in plumbing components, the difference between low lead and lead free, and how the consumers can get their water tested.
 - (4) Delivery of public education materials.
- (a) Public water systems servicing a large proportion of non-English speaking consumers shall include information in the educational material in the appropriate languages(s) regarding the importance of the notice or contain a telephone number or address where persons served may contact the water system to obtain a translated copy of the public education materials or to request assistance in the appropriate language.
- (b) Community water systems that exceed the lead action level that is not already conducting public education shall conduct public education within 60 days of the end of the monitoring period in which the exceedance occurred. The end of the monitoring period for systems that are monitoring no greater than annually shall be September 30 of the year in which the exceedance

occurred or if the Department has established an alternative monitoring schedule, the last day of that period.

- 1. Printed materials meeting the content requirements of this rule shall be provided to all bill paying customers and all other organizations and entities as required by this rule.
- 2. The water system shall contact consumers who are most at risk by delivering educational materials that meet the content of this rule to local public health agencies even if they are not located within the water system's service area, along with an informational notice that encourages distribution to all the organization's potentially affected customers or community water system's users.
- (i) The water system shall contact the local public health agencies by phone or in person.
- (ii) The water system shall provide the required public educational materials to all organizations provided by the local public health agencies that target the affected populations. This list may include organizations inside or outside of the water system's service area.
- (iii) The water system shall request the following list of organizations from public health agencies, including ones not in the water system's service area, and provide these organizations with the educational materials required under this rule along with an informational notice that encourages distribution to all potentially affected customers or users.
 - (I) Licensed childcare centers.
 - (II) Public and private preschools.
 - (III) Obstetricians-Gynecologists and Midwives.
- 3. The water system shall contact customers who are most at risk by delivering materials to the following organizations that are located in the water system's service area along with an informational notice that encourages distribution to all the organization's potentially affected customers or community water system's users:
 - (i) Public and private schools or school boards;
 - (ii) Women, Infants and Children (WIC) and Head Start Programs;
 - (iii) Public and private hospitals and medical clinics;
 - (iv) Pediatricians:
 - (v) Family planning clinics; and.
 - (vi) Local welfare agencies.
- (c) Each quarter that the water system has exceeded the lead action level, the water system shall prove public notice to each customer. The water system shall include the following information in subparagraph (c)1. below (exactly as written) on at least one water bill each quarter.
- 1. [INSERT NAME OF WATER SYSTEM HERE] found high levels of lead in drinking water in some homes. Lead can cause serious health problems.

For more information please call [INSERT NAME OF WATER SYSTEM HERE] [or visit (INSERT NAME OF WEBSITE HERE)].

- 2. Systems unable to include the statement in paragraph (i) above on its water bill shall consult with the Department for other approved methods of delivery.
- (d) Systems with a population greater than 100,000 shall post all required on the water system's publicly accessible website and provide the address to the Department.
- (e) Water systems shall submit a press release to all newspapers, television and radio stations that service the water system's service area.
- (f) In addition to the public notification and educational materials required above, the water system shall select and implement at least three activities from one or more of the categories below. The selection of activities and educational content shall be approved by the Department prior to implementation.
 - 1. Public Service Announcements.
 - 2. Paid advertisements.
 - 3. Public Area Information Displays.
 - 4. E-mails to customers.
 - S. Public Meetings.
 - 6. Household Deliveries.
 - 7. Targeted Individual Customer Contact.
- 8. Direct material distribution to all multi-family homes and institutions.
 - 9. Other methods as approved by the Department.
- (5) A community water system that continues to exceed the action level shall repeat the activities in paragraph (4) above as follows:
- (a) A community water system shall repeat the tasks contained in subparagraphs (4)(b) and (4)(f) every 12 months.
- (b) A community water system shall repeat the tasks contained in subparagraph (4)(c) with each billing cycle.
- (c) A community water system serving a population greater than 100,000 shall maintain on a publically accessible website a copy of all public educational material required under paragraph (3) until the water system no longer exceeds the action level.
- (d) A community water system shall repeat the tasks contained in subparagraph (4)(e) twice every 12 months on a schedule approved by the Department.
- (6) A non-transient non-community water system shall deliver the public education materials specified in paragraph (3) of this rule within 60 days after the end of the monitoring period unless it is already providing public education

as required under this rule. The end of the monitoring period for a system that is monitoring no greater than annually shall be September 30 of the year in which the sampling occurred or the last day of an alternative monitoring schedule. The distribution of public educational materials shall be as follows:

- (a) Post informational posters on lead in drinking water in a public place or common area in of the buildings served by the system.
- (b) Informational pamphlets and/or brochures on lead in drinking water shall be distributed to each person served by the water system.
- (c) The public educational materials shall be distributed as required in this rule at least once each year in which the system exceeds the lead action level.
- (7) A community water system serving a population less than 3,301 people may limit certain aspects of its public education program as follows:
- (a) At least one of the activities under subparagraph (4)(f) shall be implemented instead of the three required in subparagraph (4)(f).
- (b) The water system may limit the distribution of public education materials required under subparagraph (4)(b)2. to facilities and organizations served by the system that are most likely to be visited regularly by pregnant women and children.
- (c) The water system may request to have the requirements of subparagraph (4)(e) waived provided the system distributes notices to every household served by the system.
- (8) A community water system which is a facility such as a prison or hospital where the population is not capable of or is prevented from making improvements to plumbing or installing point of use treatment devices or is a system that provides water as part of the cost of services and does not charge separately for water consumption may request in writing to only use the text specified in paragraph (3) of this rule and provide notification according to paragraph (6) of this rule.
- (9) A water system may discontinue delivery of public educational materials if the system has met the lead action level during the most recent sixmenth monitoring period conducted in accordance with this section. Public education shall resume, in accordance with this section, if the water system exceeds the lead action level during any monitoring period.
- (10) A water system that fails to meet the lead action level on the basis of tap samples collected under this rule shall offer to sample the tap water of any customer who requests it. The water system is not required to pay for collecting or analyzing the sample, nor is the system required to collect and analyze the sample itself.

Author: Joe Alan Power, Dennis D. Harrison.

Statutory Authority: <u>Code of Alabama</u> 1975, §§ 22-23-33, 22-22A-5, 22-22A-6.

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335-7-11-.18 Reporting Requirements.

- (1) Tap Water Monitoring. All water systems shall provide the results of all tap water monitoring for lead and copper and for all water quality parameter samples by the 10th of the month following the end of the compliance period. The end of the compliance period is the last date that samples can be collected during the monitoring period.
- (a) Included shall be information regarding the tap, the tier level of the site, identification as a non first draw sample and length of standing time, documentation for all tap water lead and copper monitoring that the system requests invalidation, and an explanation for any site which was not monitored during the previous monitoring period or why sites may have changed.
- 1. Systems with lead service lines not providing 50% of the monitoring from these sites will provide a letter demonstrating why it was unable to locate a sufficient number of each site. Values shall be placed in ascending order with the highest value first and the 90th percentile value either circled or labeled.
- 2. All systems utilizing non first draw samples shall provide the Department prior to the first monitoring period after these regulations become effective the locations and standing times of all such monitoring. Systems applying for or systems that have been granted a waiver shall provide a certification that the system's distribution and plumbing materials are lead and copper free. A water system that has been granted a waiver and later determines the system's materials are no longer lead or copper free shall provide the basis of that determination and a corrective action plan to remove those materials within 60 days of the determination.
- (b) Source Water Monitoring. The lead/copper results from source water required to be monitored shall be provided by the 10th of the month following the analysis.
- (c) Corrosion Control Treatment. Systems with an approved corrosion control treatment system on the effective date of these regulations will continue to provide monthly monitoring reports providing the required information. These reports must be received by the 10th of the following month. For systems required to establish optimized corrosion control, daily and weekly analysis may be provided on the monthly operation reports which must be submitted by the 10th of the following month. For systems monitoring during a

six-month compliance cycle, the analysis must be provided by the 10th of the month following the analysis.

- (d) Lead Service Line Replacement. Systems required to replace service lines shall provide yearly information by December 31 regarding the number and location of service lines replaced, the number remaining, the location and lead concentration of any lead service line monitoring, and any proposed modification to the lead service line removal plan.
- (2) Record Keeping of Reporting Requirements. All systems shall retain in its office or on its premises original records of all monitoring data, analysis, reports, surveys, letters, evaluations, schedules, state determinations and other information reflecting activities to demonstrate compliance with the lead and copper requirements of this Department. These records shall be retained for no less than 12 years.
- (3) Any water system proposing the addition of a new source or any long-term change in water treatment shall submit a written report to the Department on how the change or source addition will affect the system's ability to comply with the lead and copper action levels and water quality parameter monitoring before implementing changes in treatment (or treatment processes) or using a new source.
- (a) Examples of long-term water treatment changes include the addition of a new treatment process or modification of an existing treatment process.
- (b) Examples of modifications include switching secondary disinfectants, switching coagulants and switching corresion inhibitor products.
- (c) Long term changes can include dose changes to existing chemicals if the system is planning long-term changes to its finished water pH or residual inhibitor concentration. Long-term treatment changes would not include chemical dose fluctuations associated with daily raw water quality changes.
- (4) Within 12 months after the end of the monitoring period in which the water system exceeded the lead action level, the water system shall submit the following written documentation to the Department.
 - (a) Material evaluation conducted as required in rule 335-7-11-.07.
- (b) A list of all lead service line locations in the distribution system at the time the exceedance occurred.
- (c) Schedule for replacing at least 7 percent of the initial lead service lines annually.
- (5) Within 12 months after the end of the monitoring period in which the water system exceeded the lead action level and every 12 months thereafter, the water system shall demonstrate in writing either:

- (a) The water system has replaced in the previous 12 months at least 7 percent (or as required by the Department) of the initial lead service lines or
- (b) The water system has replaced at least 7 percent (or as required by the Department) of the initial lead service lines and/or demonstrated through monitoring that that at least 7 percent (or as required by the Department) of the initial lead service lines no longer exceeds the lead action level.
- (6) The annual report submitted to the Department under this rule shall contain at a minimum the following information:
- (a) Number of lead service lines scheduled to be replaced during the previous year of the system's lead service line replacement program.
- (b) The location of each full or partial lead service line replaced with an indicator if the replacement was a full or partial replacement.
- (c) If measured, the lead concentration of any lead service line. The water system shall also report the analytical method used and the date of the sample.
- (d) The schedule of lead service lines to be replaced in the upcoming year along with the latest monitoring results for these locations.
- (7) Any water system that collects lead service line samples following a partial lead service line replacement shall report the results to the Department within the first ten days of the month in which the water system receives the laboratory results.
 - (8) Public Education Program Reporting Requirements.
- (a) Any water system that is subject to the public education requirements of this chapter shall, within ten days after the end of each period in which the system was required to perform public education send written documentation to the Department that contains:
- 1. A demonstration that the water system has delivered the public education materials that met the content and delivery requirements of this chapter.
- 2. A list of all the newspapers, radio stations, television stations, and facilities and organizations to which the system delivered public education materials during the period in which the water system was required to perform public education tasks.
- (b) Each water system shall mail a sample copy of the consumer notification of tap results to the Department along with a certification that the notification has been distributed in a manner consistent with this chapter. The sample copy and certification shall be submitted to the Department within 3 months following the end of the monitoring period.

Author: Joe Alan Power.

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