



# Lawhon & Associates, Inc.

ENVIRONMENTAL CONSULTING AND ENGINEERING SERVICES

Columbus

Cleveland

Dayton

August 19, 2016

Mr. Tim Gehring  
Director of Facilities Management  
Worthington City School District  
250 East Wilson Bridge Road  
Worthington, Ohio 43085

**Re: Lead in Water Testing at Worthington Hills Elementary School**  
**1221 Candlewood Drive, Columbus, OH 43235**  
**Sample Date: June 20, 2016**  
**L&A Project No: 16-0311**

Dear Mr. Gehring,

Lawhon & Associates, Inc. (L&A) performed water sampling to document concentrations of lead in the potable water system. There is no federal law requiring testing of drinking water in schools, except for schools that have their own water supply and are thus regulated under the Safe Drinking Water Act (SDWA). This testing was performed as a proactive measure to ensure lead in drinking water concentrations remain at acceptable levels. L&A's conclusions and recommendations relevant to the sampling performed are presented in this document.

## METHODOLOGY

L&A performed environmental sampling for lead in water at Worthington Hills Elementary School on June 20, 2016. The sampling was conducted in accordance with the United States Environmental Protection Agency's (US EPA) guidance document "3Ts (Training, Testing, and Telling) for Reducing Lead in Drinking Water in Schools" (3Ts Guidance); however, a larger sample volume was collected due to laboratory requirements for Ohio EPA certified methods. A sampling plan was developed for the facility, which prioritized drinking water sources based on potential use and risk. Field activities included the collection of one (1) liter water samples from the water main service connection, drinking fountains, kitchen sinks, and approximately 10% of classroom sinks or other potential drinking water sources. Both first draw and flush samples were collected at each location. Prior to sample collection, the potable water system was not used for a minimum of 8 hours. Samples were collected by Mr. Shawen Jenkins, Ohio Department of Health (ODH) certified Lead Risk Assessor (LRA) #LA9297. First draw samples were submitted to MASI Environmental Laboratories located in Plain City, Ohio for analysis using the EPA method SM3113B. MASI is certified by the Ohio EPA for lead in drinking water analysis. Flushed samples were held at the L&A office and submitted for analysis only if the first draw sample from the same fixture exceeded the US EPA Action Level.

## REGULATORY ACTION LEVELS

US EPA's 3T's Guidance recommends an action level of 20 parts per billion (ppb) for lead; however, Ohio Facilities Construction Commission (OFCC) Lead Plumbing Fixture Replacement Assistance Grants Program has set an action level of 15 ppb for lead which is consistent with

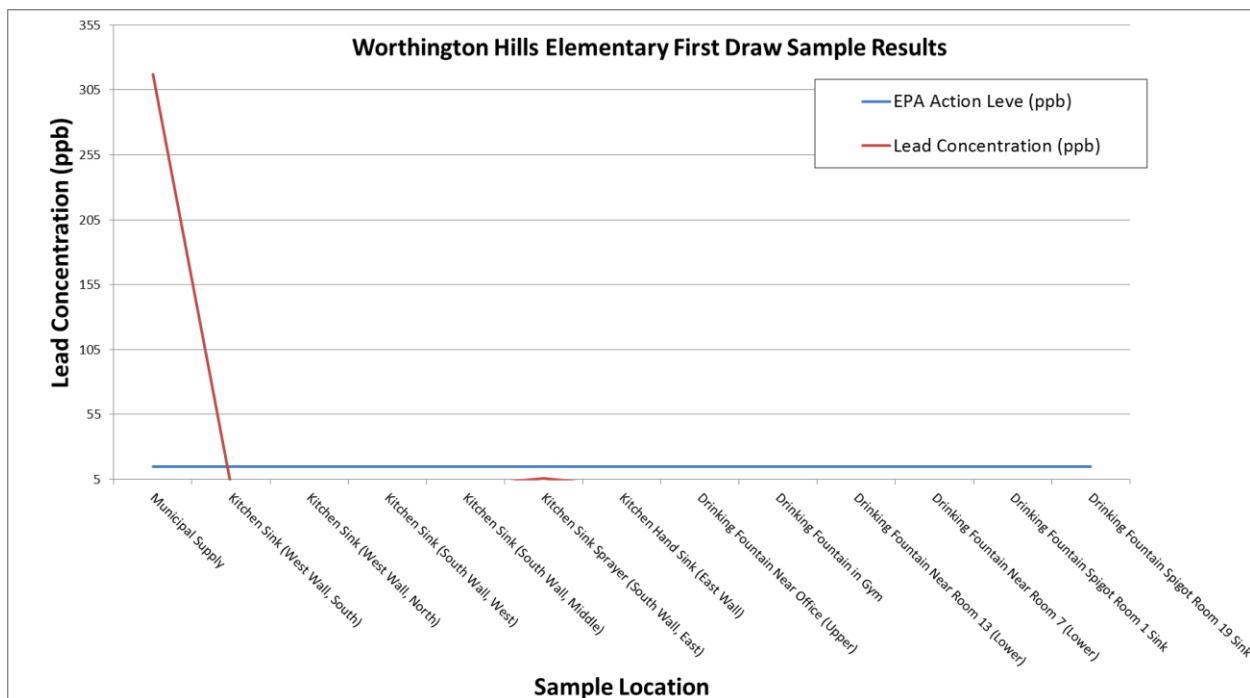
the action level for lead set by EPA's Lead and Copper Rule, under the National Primary Drinking Water Regulations (NPDWR).

For the purposes of this assessment, L&A has utilized an action level of 15 ppb lead for comparison with the laboratory analytical results.

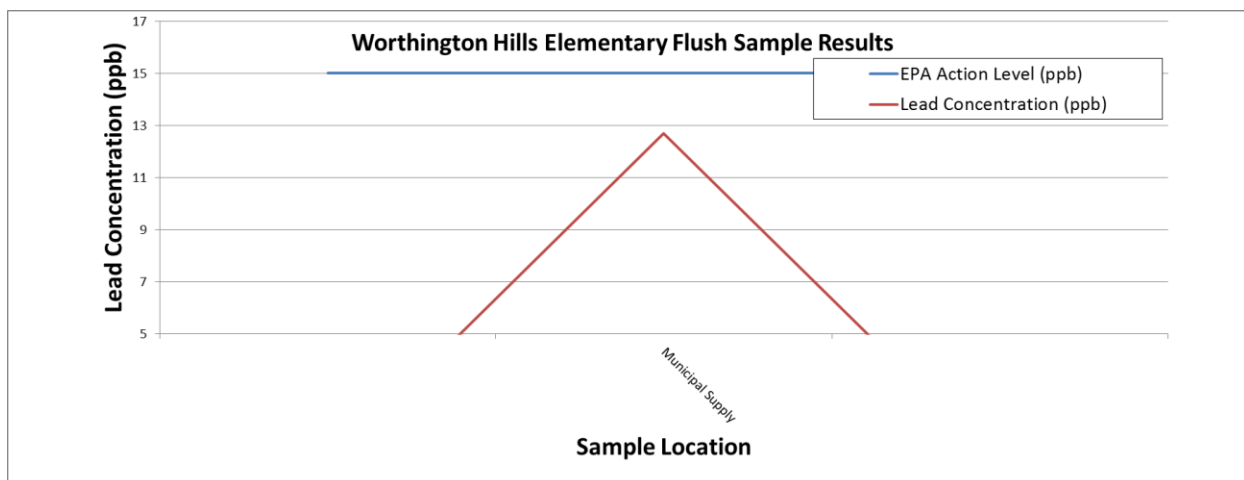
## FINDINGS

L&A collected thirteen (13) first draw water samples at Worthington Hills Elementary School. A diagram of the sampling locations is presented in Appendix A. As illustrated on the following graph, lead was detected above the action level at one sample location:

- Municipal Supply Service Connection (317.0 µg/L)



L&A submitted the flush samples for this location. As illustrated on the following graph, the lead concentration in the flush sample was reported below the action level.



A comprehensive data table is included as Appendix B. A copy of the laboratory report is included in Appendix C.

## CONCLUSIONS

No primary drinking water outlets within the building were found to have lead concentrations in excess of the federal action level; however, the results of L&A's sampling indicate that the following location had lead concentrations found in excess of the action level in the first draw sample but below the action level in the subsequent flush sample, indicating that the source of lead is likely in the fixture itself or the plumbing connecting the fixture to the lateral, and very little lead is likely coming from the plumbing upstream of the fixture:

- Municipal Supply Service Connection

Considering that the municipal water supply service connection is not used directly as a drinking water outlet and that the lead concentration in the flush sample from this outlet was below the action level, it is L&A's opinion that no further action is necessary at this time with regard to the municipal water supply service connection or service line.

## CLOSURE

L&A has prepared this report for your use in accordance with generally accepted inspection and testing practices. The information obtained in this report is site and time specific and pertains to this project only. This inspection evaluated the conditions that were readily accessible at the time of the investigation of the subject property and does not warrant against hidden conditions or future alteration of conditions at the site, as well as subsequent changes in regulations. This report should not be construed as a full Lead Risk Assessment.

This report was prepared for the exclusive use of the Worthington City School District. No other party may rely on this report unless expressly designated by the Client in writing. The use of the report is subject to the limitations and exceptions set forth in this report, as well as the terms and conditions contained in the original contract documents. L&A will not distribute or publish this report without the Client's consent, except as required by law or court order.

Thank you for the opportunity to assist you in this important matter. If you have any questions concerning this report, please contact Shawen Jenkins or Tim Price at (614) 481-8600.

Sincerely,

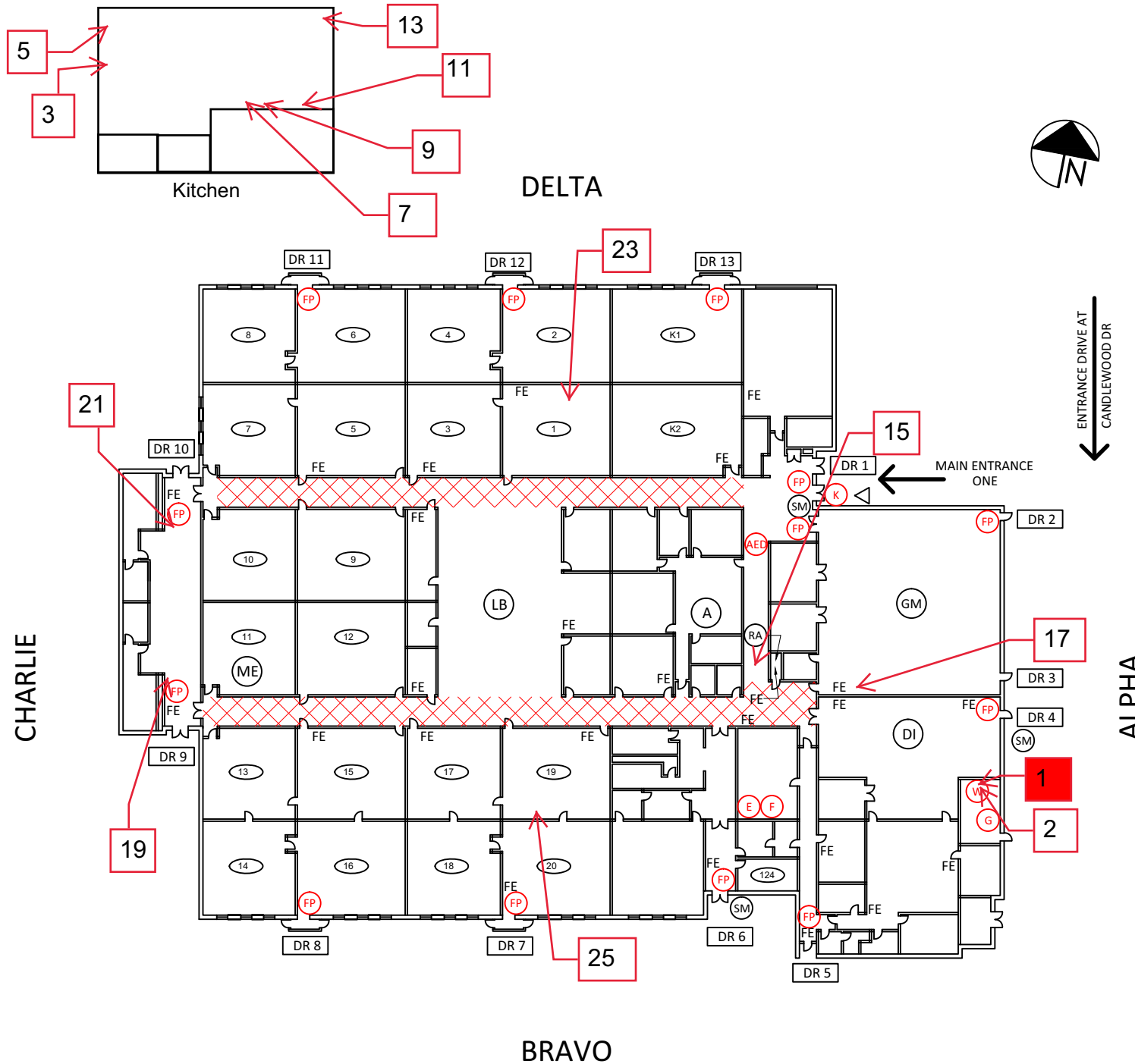




























Shawen Jenkins, Lead Risk Assessor  
Environmental Scientist



Tim Price  
Senior Project Manager

**APPENDIX A**  
**Sample Location Diagram**



CRITICAL		TORNADO EVAC. SITE
		FIRE PULLING STATIONS
		LOCATION OF EXISTING AED
		ELECTRICAL SHUTOFF
		FIRE ALARM PANEL
		GAS SHUTOFF
		KNOX BOX
		SPRINKLER SHUTOFF
	WATER SHUTOFF	
NON-CRITICAL		ADMINISTRATIVE SUITE
		AREA OF REFUGE
		CAMERA
		CORRIDOR
		ELEVATOR
		EXTERIOR DOORS
		FIRE EXTINGUISHER
		LOCATION OF BLUEPRINTS
		ROOF ACCESS POINT
		ROOM NUMBER
COMMON AREAS		SECURITY MONITORING AND ACCESS CONTROL
		SERVICE ENTRANCE
		MULTIPURPOSE ROOM
		LIBRARY
		DINING
		GYMNASIUM
		MEDIA
WORTHINGTON SCHOOLS		
WORTHINGTON HILLS ELEMENTARY SCHOOL		
1221 CANDLEWOOD DR.		
WORTHINGTON		
FACILITY SAFETY PLAN		
OHIO FACILITIES CONSTRUCTION COMMISSION		
IRN:	064089	
BUILDING TELEPHONE NUMBER:	(614) 450-4700	
EMERGENCY TELEPHONE NUMBER:	(614) 560-4147	

**APPENDIX B**  
**Comprehensive Data Table**

**Table 1: Potable Water Sampling Results**

Sample ID	Sampling Site	Sample Type	Meets Non-Use Period	Recalled Fixture	Analytical Results (ppb)
<b>WHE-1</b>	<b>Municipal Supply</b>	<b>First Draw</b>	<b>Yes</b>	<b>No</b>	<b>317.0</b>
<b>WHE-2</b>	<b>Municipal Supply</b>	<b>Flush</b>	<b>Yes</b>	<b>No</b>	<b>12.7</b>
WHE-3	Kitchen Sink (West Wall, South)	First Draw	Yes	No	ND
WHE-5	Kitchen Sink (West Wall, North)	First Draw	Yes	No	ND
WHE-7	Kitchen Sink (South Wall, West)	First Draw	Yes	No	ND
WHE-9	Kitchen Sink (South Wall, Middle)	First Draw	Yes	No	ND
<b>WHE-11</b>	<b>Kitchen Sink Sprayer (South Wall, East)</b>	<b>First Draw</b>	<b>Yes</b>	<b>No</b>	<b>5.7</b>
WHE-13	Kitchen Hand Sink (East Wall)	First Draw	Yes	No	ND
WHE-15	Drinking Fountain Near Office (Upper)	First Draw	Yes	No	ND
WHE-17	Drinking Fountain in Gym	First Draw	Yes	No	ND
WHE-19	Drinking Fountain Near Room 13 (Lower)	First Draw	Yes	No	ND
WHE-21	Drinking Fountain Near Room 7 (Lower)	First Draw	Yes	No	ND
WHE-23	Drinking Fountain Spigot Room 1 Sink	First Draw	Yes	No	ND
WHE-25	Drinking Fountain Spigot Room 19 Sink	First Draw	Yes	No	ND
1. Detection limit is 5.0 ppbl. 2. Bold indicates lead present above detection limits. 3. Highlighting indicates lead concentrations exceed the EPA Action Level.					

**APPENDIX C**  
**Laboratory Analytical Reports**



## Certificate of Analysis - Fax Copy

## MASI ENVIRONMENTAL SERVICES

P. O. Box 1440  
Dublin, Ohio 43017  
(614) 873-4654

Page: 1  
Date: 06/27/16

LAWHON & ASSOCIATES, INC.  
CHUCK WILSON  
1441 KING AVENUE  
  
COLUMBUS OH 43212

Client No: 0000005911  
AR Sheet No: 0418529-AR  
MASI Dublin Laboratory: 877  
MASI Cincinnati Laboratory: 4100  
PWS ID No:  
STU ID No:  
PO No:

Dear Client:

Along with your results listed below we would like to thank you for allowing MASI to assist you with your environmental testing requirements.

Account Name: LAWHON & ASSOCIATES, INC.	Private
Sampler Name: SHAWEN JENKINS	County: FRANKLIN
Sample Date: 06/20/16	Chlorinated:
Sample Time: 07:00	Repeat No:
Sample Matrix: POTABLE	C12 Total:
Sample Monitoring Point: WHE 1	C12 Free:
Sample Tap: MUNICIPAL SUPPLY	C12 Combined:
Sample Type:	
Sample Address: WORTHING HILLS ELEMENTARY 10221 CANDLEWOOD DR	
Sample ID: COLUMBUS OHIO	

Test Requested	Lab Number	Method Number	Analyst Number	Date Analyzed
LEAD	46539	3113B	4792	06/24/16
317 ug/l				

Public Drinking Water Analysis Results, as Required by OEPA,  
are Reported Following Final QA/QC

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CHUCK WILSON  
1441 KING AVENUE  
  
COLUMBUS OH 43212

Client No: 0000005911  
AR Sheet No: 0418531-AR  
MASI Dublin Laboratory: 877  
MASI Cincinnati Laboratory: 4100  
PWS ID No:  
STU ID No:  
PO No:

Dear Client:

Along with your results listed below we would like to thank you for allowing MASI to assist you with your environmental testing requirements.

Account Name: LAWHON & ASSOCIATES, INC.

Sampler Name: SHAWEN JENKINS

Sample Date: 06/20/16

Sample Time: 07:04

Sample Matrix: POTABLE

Sample Monitoring Point: WHE 3

Sample Tap: KITCH SINK WEST WALL

Sample Type:

Sample Address: SOUTH FIXTURE WHE 1221 CANDLEWOOD DR

Sample ID:

Private

County: FRANKLIN

Chlorinated:

Repeat No:

C12 Total:

C12 Free:

C12 Combined:

Test Requested	Lab Number	Method Number	Analyst Number	Date Analyzed
LEAD	46534	3113B	4792	06/24/16
<5.0 ug/l				

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CHUCK WILSON  
1441 KING AVENUE  
  
COLUMBUS OH 43212

Client No: 0000005911  
AR Sheet No: 0418533-AR  
MASI Dublin Laboratory: 877  
MASI Cincinnati Laboratory: 4100  
PWS ID No:  
STU ID No:  
PO No:

Dear Client:

Along with your results listed below we would like to thank you for allowing MASI to assist you with your environmental testing requirements.

Account Name: LAWHON & ASSOCIATES, INC.  
Sampler Name: SHAWEN JENKINS  
Sample Date: 06/20/16  
Sample Time: 07:08  
Sample Matrix: POTABLE  
Sample Monitoring Point: WHE 5  
Sample Tap: KITCHEN SINK  
Sample Type:  
Sample Address: WHE 1221 CANDLEWOOD DR  
Sample ID:

Private  
County: FRANKLIN  
Chlorinated:  
Repeat No:  
Cl2 Total:  
Cl2 Free:  
Cl2 Combined:

Test Requested	Lab	Method	Analyst	Date
Test Result	Number	Number	Number	Analyzed
LEAD	46523	3113B	4792	06/24/16
<5.0 ug/l				

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1441 KING AVENUE  
  
COLUMBUS OH 43212

Client No: 0000005911  
AR Sheet No: 0418535-AR  
MASI Dublin Laboratory: 877  
MASI Cincinnati Laboratory: 4100  
PWS ID No:  
STU ID No:  
PO No:

Dear Client:

Along with your results listed below we would like to thank you for allowing MASI to assist you with your environmental testing requirements.

Account Name: LAWHON & ASSOCIATES, INC.	Private
Sampler Name: SHAWEN JENKINS	County: FRANKLIN
Sample Date: 06/20/16	Chlorinated:
Sample Time: 07:12	Repeat No:
Sample Matrix: POTABLE	C12 Total:
Sample Monitoring Point: WHE 7	C12 Free:
Sample Tap: KITCH SINK SOUTH WALL	C12 Combined:
Sample Type:	
Sample Address: WEST FIXTURE WHE 1221 CANDLEWOOD DR	
Sample ID:	

Test Requested	Lab Number	Method Number	Analyst Number	Date Analyzed
LEAD	46518	3113B	4792	06/24/16
<5.0 ug/l				

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CHUCK WILSON  
1441 KING AVENUE  
  
COLUMBUS OH 43212

Client No: 0000005911  
AR Sheet No: 0418537-AR  
MASI Dublin Laboratory: 877  
MASI Cincinnati Laboratory: 4100  
PWS ID No:  
STU ID No:  
PO No:

Dear Client:

Along with your results listed below we would like to thank you for allowing MASI to assist you with your environmental testing requirements.

Account Name: LAWHON & ASSOCIATES, INC.  
Sampler Name: SHAWEN JENKINS  
Sample Date: 06/20/16  
Sample Time: 07:16  
Sample Matrix: POTABLE  
Sample Monitoring Point: WHE 9  
Sample Tap: KITCH SINK SOUTH WALL  
Sample Type:  
Sample Address: MIDDLE FIXTURE WHE 1221 CANDLEWOODS DR  
Sample ID:

Private  
County: FRANKLIN  
Chlorinated:  
Repeat No:  
C12 Total:  
C12 Free:  
C12 Combined:

Test Requested	Lab	Method	Analyst	Date
Test Result	Number	Number	Number	Analyzed
LEAD	46514	3113B	4792	06/24/16
<5.0 ug/l				

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CHUCK WILSON  
1441 KING AVENUE  
  
COLUMBUS OH 43212

Client No: 0000005911  
AR Sheet No: 0418539-AR  
MASI Dublin Laboratory: 877  
MASI Cincinnati Laboratory: 4100  
PWS ID No:  
STU ID No:  
PO No:

Dear Client:

Along with your results listed below we would like to thank you for allowing MASI to assist you with your environmental testing requirements.

Account Name: LAWHON & ASSOCIATES, INC.  
Sampler Name: SHAWEN JENKINS  
Sample Date: 06/20/16  
Sample Time: 07:20  
Sample Matrix: POTABLE  
Sample Monitoring Point: WHE 11  
Sample Tap: KITCH SINK SOUTH WALL  
Sample Type:  
Sample Address: EAST FIX WHE 1221 CANDLEWOOD DR  
Sample ID:

Private  
County: FRANKLIN  
Chlorinated:  
Repeat No:  
Cl2 Total:  
Cl2 Free:  
Cl2 Combined:

Test Requested	Lab Number	Method Number	Analyst Number	Date Analyzed
LEAD	46510	3113B	4792	06/24/16
5.7 ug/l				

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CHUCK WILSON  
1441 KING AVENUE  
  
COLUMBUS OH 43212

Client No: 0000005911  
AR Sheet No: 0418541-AR  
MASI Dublin Laboratory: 877  
MASI Cincinnati Laboratory: 4100  
PWS ID No:  
STU ID No:  
PO No:

Dear Client:

Along with your results listed below we would like to thank you for allowing MASI to assist you with your environmental testing requirements.

Account Name: LAWHON & ASSOCIATES, INC.  
Sampler Name: SHAWEN JENKINS  
Sample Date: 06/20/16  
Sample Time: 07:24  
Sample Matrix: POTABLE  
Sample Monitoring Point: WHE 13  
Sample Tap: KITCH HAND SINK EAST WALL  
Sample Type:  
Sample Address: WHE 1221 CANDLEWOOD DR  
Sample ID:

Private  
County: FRANKLIN  
Chlorinated:  
Repeat No:  
C12 Total:  
C12 Free:  
C12 Combined:

Test Requested	Lab Number	Method Number	Analyst Number	Date Analyzed
LEAD	46507	3113B	4792	06/24/16
<5.0 ug/l				

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CHUCK WILSON  
1441 KING AVENUE  
  
COLUMBUS OH 43212

Client No: 0000005911  
AR Sheet No: 0418543-AR  
MASI Dublin Laboratory: 877  
MASI Cincinnati Laboratory: 4100  
PWS ID No:  
STU ID No:  
PO No:

Dear Client:

Along with your results listed below we would like to thank you for allowing MASI to assist you with your environmental testing requirements.

Account Name: LAWHON & ASSOCIATES, INC.  
Sampler Name: SHAWEN JENKINS  
Sample Date: 06/20/16  
Sample Time: 07:28  
Sample Matrix: POTABLE  
Sample Monitoring Point: WHE 15  
Sample Tap: DF NEAR OFFICE  
Sample Type:  
Sample Address: WHE 1221 CANDLEWOOD DR  
Sample ID:

Private  
County: FRANKLIN  
Chlorinated:  
Repeat No:  
Cl2 Total:  
Cl2 Free:  
Cl2 Combined:

Test Requested	Lab Number	Method Number	Analyst Number	Date Analyzed
LEAD	46504	3113B	4792	06/24/16
<5.0 ug/l				

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CHUCK WILSON  
1441 KING AVENUE  
  
COLUMBUS OH 43212

Client No: 0000005911  
AR Sheet No: 0418545-AR  
MASI Dublin Laboratory: 877  
MASI Cincinnati Laboratory: 4100  
PWS ID No:  
STU ID No:  
PO No:

Dear Client:

Along with your results listed below we would like to thank you for allowing MASI to assist you with your environmental testing requirements.

Account Name: LAWHON & ASSOCIATES, INC.  
Sampler Name: SHAWEN JENKINS  
Sample Date: 06/20/16  
Sample Time: 07:32  
Sample Matrix: POTABLE  
Sample Monitoring Point: WHE 17  
Sample Tap: DF IN GYM  
Sample Type:  
Sample Address: WHE 1221 CANDLEWOOD DR  
Sample ID:

Private  
County: FRANKLIN  
Chlorinated:  
Repeat No:  
Cl2 Total:  
Cl2 Free:  
Cl2 Combined:

Test Requested	Lab Number	Method Number	Analyst Number	Date Analyzed
LEAD	46501	3113B	4792	06/24/16
<5.0 ug/l				

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1441 KING AVENUE  
  
COLUMBUS OH 43212

Client No: 0000005911  
AR Sheet No: 0418547-AR  
MASI Dublin Laboratory: 877  
MASI Cincinnati Laboratory: 4100  
PWS ID No:  
STU ID No:  
PO No:

Dear Client:

Along with your results listed below we would like to thank you for allowing MASI to assist you with your environmental testing requirements.

Account Name: LAWHON & ASSOCIATES, INC.  
Sampler Name: SHAWEN JENKINS  
Sample Date: 06/20/16  
Sample Time: 07:36  
Sample Matrix: POTABLE  
Sample Monitoring Point: WHE 19  
Sample Tap: DF NEAR RM 13  
Sample Type:  
Sample Address: WHE 1221 CANDLEWOOD DR  
Sample ID:

Private  
County: FRANKLIN  
Chlorinated:  
Repeat No:  
C12 Total:  
C12 Free:  
C12 Combined:

Test Requested	Lab	Method	Analyst	Date
Test Result	Number	Number	Number	Analyzed
LEAD	46496	3113B	4792	06/24/16
<5.0 ug/l				

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CHUCK WILSON  
1441 KING AVENUE  
  
COLUMBUS OH 43212

Client No: 0000005911  
AR Sheet No: 0418549-AR  
MASI Dublin Laboratory: 877  
MASI Cincinnati Laboratory: 4100  
PWS ID No:  
STU ID No:  
PO No:

Dear Client:

Along with your results listed below we would like to thank you for allowing MASI to assist you with your environmental testing requirements.

Account Name: LAWHON & ASSOCIATES, INC.  
Sampler Name: SHAWEN JENKINS  
Sample Date: 06/20/16  
Sample Time: 07:40  
Sample Matrix: POTABLE  
Sample Monitoring Point: WHE 21  
Sample Tap: DF NEAR RM 7  
Sample Type:  
Sample Address: WHE 1221 CANDLEWOOD DR  
Sample ID:

Private  
County: FRANKLIN  
Chlorinated:  
Repeat No:  
C12 Total:  
C12 Free:  
C12 Combined:

Test Requested	Lab	Method	Analyst	Date
Test Result	Number	Number	Number	Analyzed
LEAD	46491	3113B	4792	06/24/16
<5.0 ug/l				

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CHUCK WILSON  
1441 KING AVENUE  
  
COLUMBUS OH 43212

Client No: 0000005911  
AR Sheet No: 0418551-AR  
MASI Dublin Laboratory: 877  
MASI Cincinnati Laboratory: 4100  
PWS ID No:  
STU ID No:  
PO No:

Dear Client:

Along with your results listed below we would like to thank you for allowing MASI to assist you with your environmental testing requirements.

Account Name: LAWHON & ASSOCIATES, INC.  
Sampler Name: SHAWEN JENKINS  
Sample Date: 06/20/16  
Sample Time: 07:45  
Sample Matrix: POTABLE  
Sample Monitoring Point: WHE 23  
Sample Tap: RM 1 SINK  
Sample Type:  
Sample Address: WHE 1221 CANDLEWOOD DR  
Sample ID:

Private  
County: FRANKLIN  
Chlorinated:  
Repeat No:  
C12 Total:  
C12 Free:  
C12 Combined:

Test Requested	Lab	Method	Analyst	Date
Test Result	Number	Number	Number	Analyzed
LEAD	46484	3113B	4792	06/24/16
<5.0 ug/l				

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1441 KING AVENUE  
  
COLUMBUS OH 43212

Client No: 0000005911  
AR Sheet No: 0418553-AR  
MASI Dublin Laboratory: 877  
MASI Cincinnati Laboratory: 4100  
PWS ID No:  
STU ID No:  
PO No:

Dear Client:

Along with your results listed below we would like to thank you for allowing MASI to assist you with your environmental testing requirements.

Account Name: LAWHON & ASSOCIATES, INC.  
Sampler Name: SHAWEN JENKINS  
Sample Date: 06/20/16  
Sample Time: 07:52  
Sample Matrix: POTABLE  
Sample Monitoring Point: WHE 25  
Sample Tap: RM 19 SINK  
Sample Type:  
Sample Address: WHE 1221 CANDLEWOOD DR  
Sample ID:

Private  
County: FRANKLIN  
Chlorinated:  
Repeat No:  
Cl2 Total:  
Cl2 Free:  
Cl2 Combined:

Test Requested	Lab	Method	Analyst	Date
Test Result	Number	Number	Number	Analyzed
LEAD	46756	3113B	4792	06/24/16
<5.0 ug/l				

Public Drinking Water Analysis Results, as Required by OEPA,  
are Reported Following Final QA/QC

## Certificate of Analysis - Fax Copy

## MASI ENVIRONMENTAL SERVICES

P. O. Box 1440  
Dublin, Ohio 43017  
(614) 873-4654

Page: 1  
Date: 07/22/16

LAWHON & ASSOCIATES, INC.  
CHUCK WILSON  
1441 KING AVENUE  
  
COLUMBUS OH 43212

Client No: 0000005911  
AR Sheet No: 0418530-AR  
MASI Dublin Laboratory: 877  
MASI Cincinnati Laboratory: 4100  
PWS ID No:  
STU ID No:  
PO No:

Dear Client:

Along with your results listed below we would like to thank you for allowing MASI to assist you with your environmental testing requirements.

Account Name: LAWHON & ASSOCIATES, INC.  
Sampler Name: SHAWEN JENKINS  
Sample Date: 06/20/16  
Sample Time: 07:02  
Sample Matrix: POTABLE  
Sample Monitoring Point: WHE 2  
Sample Tap: MUNICIPAL SUPPLY  
Sample Type:  
Sample Address: WHE 1221 CANDLEWOOD DR  
Sample ID:

Private  
County: FRANKLIN  
Chlorinated:  
Repeat No:  
Cl2 Total:  
Cl2 Free:  
Cl2 Combined:

Test Requested	Lab Number	Method Number	Analyst Number	Date Analyzed
LEAD	60788	3113B	3710	07/20/16
12.7 ug/l				

Public Drinking Water Analysis Results, as Required by OEPA,  
are Reported Following Final QA/QC