



# Lawhon & Associates, Inc.

ENVIRONMENTAL CONSULTING AND ENGINEERING SERVICES

Columbus

Cleveland

Dayton

October 5, 2020

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

**Re: Report of Findings for the *Legionella* Environmental Sampling**  
**Facility: Granby Elementary School**  
**Address: 1490 Hard Rd, Columbus, OH 43235**  
**Sample Date: September 21, 2020**  
**L&A Project No: 20-0441**

Dear Mr. Gehring,

Lawhon & Associates, Inc. (L&A) performed environmental sampling to document concentrations of *Legionella* in the building's domestic water system. This testing was performed as a proactive measure to ensure *Legionella* concentrations are at acceptable levels following a period of reduced occupancy. L&A's conclusions and recommendations relevant to the sampling performed are presented in this document.

## METHODOLOGY

L&A performed environmental sampling for *Legionella* at the site on September 21, 2020. Field activities included a visual assessment of conditions, documentation of water temperatures and the collection of representative water samples for analysis to document *Legionella* concentrations. All activities were performed in accordance with recommendations published by OSHA, AIHA, CDC and current infection control literature. The samples were sent cold, by overnight mail, to U.S. Micro-Solutions, Inc, Greensburg, Pennsylvania for analysis by culture method. This lab is certified to perform *Legionella* analysis through the Centers for Disease Control (CDC) Environmental *Legionella* Isolation Techniques Evaluation (Elite) Certification Program. U.S. Micro-Solutions, Inc. is also accredited by the American Industrial Hygiene Association (AIHA) through the Environmental Microbiology Proficiency Analytical Testing (EMPAT) Program.

## FINDINGS

L&A collected ten (10) water samples from the domestic water system on this date. A summary of the analytical results is presented in Table 1. The comprehensive data set is presented in Appendix A. A copy of the laboratory report is included as Appendix B.

**Table 1: Domestic Water Sampling Results**

Location	Fixture	Water Source	Analytical Data (CFU/ml)
Mechanical Room	Municipal Water Main	Cold	ND
Mechanical Room	Hot Water Tank	Hot	ND
Kitchen	Hand Sink	Hot	ND
Corridor at 1G	Bottle Filling Station	Cold	ND
Classroom 29	Faucet	Hot	ND
Restroom	Faucet	Hot	ND
Classroom 17	Faucet	Hot	ND
Room 13	Faucet	Hot	ND
Room 36	Faucet	Hot	ND
Nurse Station	Faucet	Hot	ND
<div><div>1. ND. <i>Legionella</i> species were not present above detection limits for the analytical method used.</div><div>2. OSHA recommends <i>Legionella</i> concentrations be maintained below 10 CFU/ml at domestic water outlets.</div></div>			

## CONCLUSIONS

L&A conducted representative sampling of the domestic water system servicing the Granby Elementary School. As illustrated in Table 1, analytical results indicate that *Legionella* was not detected at the representative domestic water outlets sampled. No further action is recommended.

## 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. The opinions expressed in this report are based on L&A's experience, relevant literature and available information.

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 Karrie Bontrager at (614) 481-8600, extension 136.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Karrie A. Bontrager', written in a cursive style.

Karrie A. Bontrager, LEED AP  
Principal and Sr. Microbiologist

## **APPENDIX A**

### **Comprehensive Data Set**



**APPENDIX B**  
**Laboratory Analytical Report**



U.S. Micro-Solutions, Inc. \* 302 Unity Plaza \* Latrobe, PA 15650  
Phone: (724) 853-4047 Fax: (724) 853-4049 AIHA-LAP, LLC EMLAP #103009  
[www.usmslab.com](http://www.usmslab.com)



Customer Name: Lawhon & Associates  
Customer Address: 1441 King Avenue  
Columbus, OH 43201  
Sample Date: September 21, 2020  
Date Received: September 22, 2020  
Date of Report: September 30, 2020  
Customer Phone: (614) 481-8600  
PO Number:  
Fax: (614) 481-8610  
Attention: Karrie Bontrager & Matt Geiger  
Analysis Date: September 22, 2020  
Sample Time: 1050  
Analysis Time (hrs): 28.9  
Project Name/Number: 20-0441 Worthington CSD - Granby Elementary School

Customer sample numbers below are uniquely identified by prefixing Laboratory # 98016-20

Water/Liquid Sample(s) for *Legionella* Culture - Analytical Method MIC 06 MIC 07 (ISO 11731:2017)

Sample Number	Media	Sample Description	Results of Microbial Analysis
W-GES-92120-1	BCYE/GPCV	Mechanical Room - Municipal Water Main - Cold - First Draw	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
W-GES-92120-2	BCYE/GPCV	Mechanical Room - Hot Water Tank - Hot - First Draw	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
W-GES-92120-3	BCYE/GPCV	Kitchen - Hand Sink - Hot - Flush	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
W-GES-92120-4	BCYE/GPCV	Corridor at 1G - Bottle Filling Station - Cold - Flush	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
W-GES-92120-5	BCYE/GPCV	Classroom 29 - Faucet - Hot - Flush	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
W-GES-92120-6	BCYE/GPCV	Restroom - Faucet - Hot - Flush	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected

Notes:

CFU/mL = colony forming units per milliliter, AS = analytical sensitivity.  
Results are reported as Positive or Not Detected.

A negative culture for *Legionella* spp. from a sample does not necessarily rule out its presence.  
Results relate only to the samples tested. Results are reported as calculated. For biological data, the first and/or second digit should be considered significant.

When providing duplicates of this report, the document should be provided in total and not in section in accordance with AIHA-LAP, LLC. Any unauthorized or improper disclosure, copying, distribution, use, or falsification of these results is prohibited. USMS shall have no liability to the Customer or the Customer's customer for opinions stated, recommendations made, actions taken, or conduct implemented based on the test results reported.

Technical Manager:

*Sharon Danko*

Sharon Danko, AS, MLT (ASCP)

Contact: Sharon Danko, Technical Manager: 724-853-4047



U.S. Micro-Solutions, Inc. \* 302 Unity Plaza \* Latrobe, PA 15650  
Phone: (724) 853-4047 Fax: (724) 853-4049 AIHA-LAP, LLC EMLAP #103009  
[www.usmslab.com](http://www.usmslab.com)



Customer Name:	Lawhon & Associates	Sample Date:	September 21, 2020
Customer Address:	1441 King Avenue	Date Received:	September 22, 2020
	Columbus, OH 43201	Date of Report:	September 30, 2020
Customer Phone:	(614) 481-8600	Fax:	(614) 481-8610
PO Number:		Attention:	Karrie Bontrager & Matt Geiger
		Analysis Date:	September 22, 2020
Project Name/Number:	20-0441 Worthington CSD - Granby Elementary School	Sample Time:	1050
		Analysis Time (hrs):	28.9

Customer sample numbers below are uniquely identified by prefixing Laboratory # 98016-20

Water/Liquid Sample(s) for *Legionella* Culture - Analytical Method MIC 06 MIC 07 (ISO 11731:2017)

Sample Number	Media	Sample Description	Results of Microbial Analysis
W-GES-92120-7	BCYE/GPCV	Classroom 17 - Faucet - Hot - First Draw	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
W-GES-92120-8	BCYE/GPCV	Room 13 - Faucet - Hot - Flush	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
W-GES-92120-9	BCYE/GPCV	Room 36 - Faucet - Hot - Flush	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
W-GES-92120-10	BCYE/GPCV	Nurse Station - Faucet - Hot - Flush	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected

Notes:

CFU/mL = colony forming units per milliliter, AS = analytical sensitivity.  
Results are reported as Positive or Not Detected.

A negative culture for *Legionella* spp. from a sample does not necessarily rule out its presence.  
Results relate only to the samples tested. Results are reported as calculated. For biological data, the first and/or second digit should be considered significant.

When providing duplicates of this report, the document should be provided in total and not in section in accordance with AIHA-LAP, LLC. Any unauthorized or improper disclosure, copying, distribution, use, or falsification of these results is prohibited. USMS shall have no liability to the Customer or the Customer's customer for opinions stated, recommendations made, actions taken, or conduct implemented based on the test results reported.

Technical Manager:

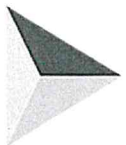
*Sharon Danko*

Sharon Danko, AS, MLT (ASCP)

Contact: Sharon Danko, Technical Manager: 724-853-4047

\*End of Report\*

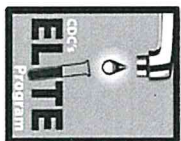




# U.S. Micro-Solutions, Inc.

302 Unity Plaza  
Latrobe, PA 15650  
P: 724-853-4047 F: 724-853-4049  
supplies@usmslab.com

## LEGIONELLA / WATER TEST REQUEST - CHAIN OF CUSTODY



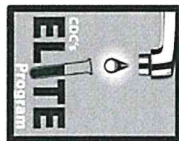
CUSTOMER NAME: Lawhon & Associates		PHONE #: 614-481-8600		FAX #: 614-481-8610							
ADDRESS: 1441 King Avenue		CITY: Columbus		STATE: Ohio ZIP: 43201							
ATTENTION TO: Karrie Bontrager & Matt Geiger		E-MAIL: kbonttrager@lawhon-assoc.com & mgeiger@									
SAMPLE OBTAINED BY: Matt Geiger		RESULTS: <input checked="" type="checkbox"/> FAX <input checked="" type="checkbox"/> EMAIL									
PROJECT NAME/NUMBER: 20-0441 Worthington CSD - Granby Elementary School		PO#									
# SAMPLES: 10		Samples collected in New York state? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No									
SAMPLE NUMBER	SAMPLE DATE / TIME	SAMPLE LOCATION AND DESCRIPTION		WATER	SWAB	YES	NO	LEGIONELLA	Heterotrophic Plate Count	Chlorine (ppm)	Temperature (°C)
W-GES-92120-1	9/21/2020	10:50am-11:30am Mechanical Room - Municipal Water Main - Cold - First Draw		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
W-GES-92120-2	9/21/2020	10:50am-11:30am Mechanical Room - Hot Water Tank - Hot - First Draw		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
W-GES-92120-3	9/21/2020	10:50am-11:30am Kitchen - Hand Sink - Hot - Flush		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
W-GES-92120-4	9/21/2020	10:50am-11:30am Corridor at 1G - Bottle Filling Station - Cold - Flush		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
W-GES-92120-5	9/21/2020	10:50am-11:30am Classroom 29 - Faucet - Hot - Flush		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
W-GES-92120-6	9/21/2020	10:50am-11:30am Restroom - Faucet - Hot - Flush		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
W-GES-92120-7	9/21/2020	10:50am-11:30am Classroom 17 - Faucet - Hot - First Draw		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
W-GES-92120-8	9/21/2020	10:50am-11:30am Room 13 - Faucet - Hot - Flush		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
W-GES-92120-9	9/21/2020	10:50am-11:30am Room 36 - Faucet - Hot - Flush		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RELINQUISHED BY - CUSTOMER (MUST SIGN)		DATE AND TIME		DATE AND TIME		LABORATORY NUMBER		Analyst Initials			
MATT GEIGER		9/21/2020 @ 4:00pm		9/21/2020 @ 4:00pm		98014-20					
RECEIVED BY - LAB USE ONLY		DATE AND TIME		LABORATORY NUMBER							
MATT GEIGER		09/22/20 1415		98014-20							



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LEGIONELLA / WATER TEST REQUEST - CHAIN OF CUSTODY  
Additional Samples



CUSTOMER NAME: **Lawhon & Associates**

PROJECT NAME/NUMBER: 20-0441 Worthington CSD - Granby Elementary School

SAMPLE NUMBER	SAMPLE DATE / TIME	SAMPLE LOCATION AND DESCRIPTION	SAMPLE TYPE		POTABLE WATER		TEST TYPE		LAB USE ONLY			
			WATER	SWAB	YES	NO	LEGIONELLA	Heterotrophic Plate Count	Chlorine (ppm)	Temperature (°C)		
W-GES-92120-10	9/21/2020	10:50am-11:30am	Nurse Station - Faucet - Hot - Flush	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
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