



850 Poplar Street
Pittsburgh, PA 15220
phone: 412.922.4000
fax: 412.922.4043
intertek.com/building
psiusa.com

October 28, 2020

Pine-Richland School District
702 Warrendale Road
Gibsonia, PA 15044-9534
Attention: Mr. Jeffrey Zimmerman
Maintenance Supervisor
jzimmerman@pinerichland.org

Re: Legionella Screening

Pine Richland School District
Allegheny County, Pennsylvania
PSI Project No.: 08164570-1

Dear Mr. Zimmerman:

In accordance with your authorization, Professional Service Industries, Inc. (PSI), an Intertek company, has performed water screening for legionella bacteria at the Pine Richland School District facilities located in Allegheny County, PA. The facilities were tested on October 14, 2020. Please find one electronic copy of the final report attached.

Thank you for choosing PSI as your consultant for this project. If you have any questions, or if we can be of additional service, please call us at (412) 922-4001 x 383.

Respectfully submitted,

PROFESSIONAL SERVICE INDUSTRIES, INC.

A handwritten signature in blue ink that reads "Jennifer E. Jacobs".

Jennifer Jacobs
Environmental Tech I

A handwritten signature in blue ink that reads "Michael Kopar".

Michael Kopar, CIE
Project Manager, Environmental Services



LEGIONELLA SCREENING

At the

PINE RICHLAND SCHOOL DISTRICT

Prepared for

**PINE RICHLAND SCHOOL DISTRICT
702 WARRENDALE ROAD
GIBSONIA, PENNSYLVANIA 15044-9534**

Prepared by

**Professional Service Industries, Inc.
850 Poplar Street
Pittsburgh, PA 15220
Telephone 412-922-4001 x 383**

PSI PROJECT NO. 08164570-1

October 28, 2020

A handwritten signature in blue ink that reads "Michael Kopar".

Michael Kopar, CIE
Project Manager

A handwritten signature in blue ink that reads "Greg Chambliss".

Greg Chambliss, RPIH, LEED-AP
Principal Consultant

TABLE OF CONTENTS

1. EXECUTIVE SUMMARY	1
2. INTRODUCTION	2
2.1 AUTHORIZATION	2
2.2 SITE DESCRIPTION	2
2.3 PURPOSE AND SCOPE.....	2
3. INVESTIGATION METHODOLOGIES	3
3.1 LEGIONELLA SCREENING.....	3
4. DATA ANALYSIS & INTERPRETATION	4
4.1 LEGIONELLA SCREENING.....	4
5. CONCLUSIONS AND RECOMMENDATIONS	5
6. WARRANTY	6

LIST OF APPENDICES

APPENDIX A - ANALYTICAL REPORTS

TABLE 1 - SCREENING RESULTS



1. EXECUTIVE SUMMARY

PSI has conducted a water screening for legionella bacteria in client-specified locations at the Pine Richland School District facilities located in Allegheny County, Pennsylvania. This screening was conducted following the re-opening of the schools following the COVID19 pandemic.

The water screening was conducted on October 14, 2020 at the request of Mr. Jeffrey Zimmerman, Director of Facilities for the Pine Richland School District. The scope consisted of the collection of water samples from selected water sources at the facility.

The purpose of this screening was to document the conditions of potable and accessible water sources in order to make a determination of the presence or absence of legionella bacteria during the COVID-19 pandemic.

WATER SCREENING – OCTOBER 14, 2020

Twenty-nine (29) legionella water samples were collected in accordance with the Culture Protocol for Environmental Sample Collection on October 14, 2020. Water samples were collected from the following facilities at the Pine Richland School District:

- High School (8 samples)
- Middle School (4 samples)
- Stadium (4 samples)
- Wexford Elementary School (3 samples)
- Richland Elementary School (2 samples)
- Eden Hall School (8 samples)

Sampling was not conducted at Hance Elementary School due to the installation of a new water heater in June 2020 and the flushing of the entire system prior to the start of school. Legionella bacteria **was not** detected above the analytical detection limit in any of the twenty-nine (29) water samples collected on October 14, 2020.



2. INTRODUCTION

Professional Service Industries, Inc. (PSI) has conducted a water screening for legionella bacteria in client-specified locations at the Pine Richland School District facilities located in Allegheny County, Pennsylvania. The purpose of this screening was to test for the presence of legionella bacteria in potable water source locations. PSI's James Davis conducted the screenings on October 14, 2020, under the direction on Michael Kopar, Certified Indoor Environmentalist (CIE).

This limited Screening was conducted at the request of Mr. Jeffrey Zimmerman, Director of Facilities for the Pine Richland School District.

2.1 AUTHORIZATION

E-mail authorization to conduct the Screening was given on October 12, 2020, by Mr. Zimmerman in accordance with PSI Proposal 0816-307312 between PSI and the Pine Richland School District.

2.2 SITE DESCRIPTION

The subject site area upon which this Screening was conducted included client-specified locations of the Pine Richland School District facilities located in Allegheny County, Pennsylvania. The sampling locations are provided in the attached table and appendices.

2.3 PURPOSE AND SCOPE

The purpose of this screening was to document the conditions in order to make a determination of the presence or absence of legionella bacteria from potable water sources in the facilities likely used by students and staff.

The scope of work included the collection and analysis of water samples for the presence of legionella bacteria and a report of the findings and recommendations. The Screening was completed in general accordance with the authorized scope of work.



3. INVESTIGATION METHODOLOGIES

Field investigation and Screening activities were conducted by PSI's Mr. James Davis, under the direction of PSI's Michael Kopar, CIE. Prior to the commencement of Screening activities, the client provided site contact information and assisted in providing access to the facility.

3.1 LEGIONELLA SCREENING

In all, twenty-nine (29) legionella water samples were collected in laboratory supplied 100 ml plastic bottles (with preservative) in accordance with the Culture Protocol for Environmental Sample Collection. The samples were packed in a cooler with ice and shipped overnight to the laboratory for analysis. Water samples were collected directly into laboratory supplied water bottles in accordance with laboratory provided guidelines. The samples were analyzed at US MicroSolutions in Latrobe, PA in accordance with Analytical Method USMS-B006 & USMS-B007. Samples were collected from:

- High School (8 samples)
- Middle School (4 samples)
- Stadium (4 samples)
- Wexford Elementary School (3 samples)
- Richland Elementary School (2 samples)
- Eden Hall School (8 samples)



4. DATA ANALYSIS & INTERPRETATION

Analysis and interpretation of the data generated during the field investigation and laboratory testing is presented in the following sections. Where appropriate, the results are compared with regulatory limits, if available, or industry standard guidelines. Summaries of the analytical results are provided in the appendices.

4.1 LEGIONELLA SCREENING

WATER SCREENING

Legionella bacteria **was not** detected above the analytical detection limit in any of the twenty-nine (29) water samples collected on October 14, 2020. The OSHA Action Level for potable water is 10 CFU/ml.



5. CONCLUSIONS AND RECOMMENDATIONS

PSI has performed limited legionella screening at the subject site in general accordance with the authorized scope of work. Legionella bacteria **was not** detected above the analytical detection limit in any of the twenty-nine (29) water samples collected on October 14, 2020. Based on the results of this screening, no further action appears warranted at this time.



6. WARRANTY

LEGIONELLA SCREENING

PSI warrants that the findings contained herein have been prepared with the level of care and skill ordinarily exercised by professionals practicing in the community. The scope of work addressed readily accessible and exposed interior building areas. Observation or sampling of inaccessible areas such as behind walls or within ductwork was performed only at specific locations as described in this report. PSI's investigation did address determining the source of moisture intrusion into the subject area of the structure.

USE BY THIRD PARTIES

This report was prepared pursuant to the contract PSI has with the Pine Richland School District. That contractual relationship included an exchange of information about the subject site that was unique and between PSI and its client and serves as the basis upon which this report was prepared. Because of the importance of the communication between PSI and its client, reliance or any use of this report by anyone other than the Pine Richland School District, for whom it was prepared, is prohibited and therefore not foreseeable to PSI. Reliance or use by any such third party without explicit authorization in the report does not make said third party a third-party beneficiary to PSI's contract with the Pine Richland School District. Any such unauthorized reliance on or use of this report, including any of its information or conclusions, will be at third party's risk. For the same reasons, no warranties or representations, expressed or implied in this report, are made to any such third party.

UNIDENTIFIABLE CONDITIONS

This limited legionella Screening has been developed to provide the client with information regarding apparent conditions relating to the subject property. Although PSI believes that the findings and conclusions provided in this report are reasonable, the sampling is necessarily limited to the conditions observed and to the information available at the time of the work. Due to the nature of the work, there is a possibility that there may exist conditions which could not be identified within the scope of the Screening or which were not apparent at the time of our site work. The Screening is also limited to information available from the client at the time it was conducted. It is also possible that the testing methods employed at the time of the report may later be superseded by other methods. PSI does not accept responsibility for changes in the state of the art. No other warranties are implied or expressed.



APPENDIX A

ANALYTICAL & SAMPLING DATA

TABLE 1.0
SAMPLE DATA SHEET
 Pine Richland School District
 Sampling Date: October 14, 2020

Sample #	Sample Type	Sample Location	Legionella Results (CFU/ml)
High School			
1014-01	First Draw	Swimming locker room	Not Detected
1014-02	Flush	Swimming locker room	Not Detected
1014-03	First Draw	Boiler Room	Not Detected
1014-04	First Draw	Kitchen hand sink	Not Detected
1014-05	First Draw	New boiler room	Not Detected
1014-06	First Draw	Chiller pump room	Not Detected
1014-07	First Draw	Nurse	Not Detected
1014-08	First Draw	Guidance office sink	Not Detected
Middle School			
1014-09	First Draw	Janitor closet, 400 wing	Not Detected
1014-10	First Draw	Room adjacent to L09	Not Detected
1014-11	First Draw	Physical plant	Not Detected
1014-12	First Draw	Boy's Locker Room sink	Not Detected
Stadium			
1014-13	First Draw	Boiler Room	Not Detected
1014-14	First Draw	Coach's sink	Not Detected
1014-28	First Draw	Visitor's locker room	Not Detected
1014-29	First Draw	Hot water tank – visitor's locker room	Not Detected
Wexford Elementary School			
1014-15	First Draw	Hot water tank	Not Detected

Pine-Richland Legionella Screening
 PSI Project # 08164570-1

1014-16	First Draw	Kitchen hand sink	Not Detected
1014-17	First Draw	Teacher's lounge	Not Detected
Richland Elementary School			
1014-18	First Draw	Boiler room	Not Detected
1014-19	First Draw	Office restroom	Not Detected
Eden Hall School			
1014-20	First Draw	Mechanical room tank	Not Detected
1014-21	First Draw	Mechanical room tank	Not Detected
1014-22	First Draw	Mechanical room tank	Not Detected
1014-23	First Draw	Restroom water tank across from 625	Not Detected
1014-24	First Draw	Restroom across from 825	Not Detected
1014-25	First Draw	Room 502 tank	Not Detected
1014-26	First Draw	Staff restroom near 311	Not Detected
1014-27	First Draw	Teachers lounge sink	Not Detected

CFU/ml – Colony Forming Units per ml
 Not detected = No legionella species isolated



Customer Name: PSI Intertek
Customer Address: 850 Poplar St
 Pittsburgh, PA 15220

Sample Date: October 14, 2020
Date Received: October 14, 2020
Date of Report: October 26, 2020

Customer Phone: (412) 922-4001
PO Number:

Fax:
Attention: Mike Kopar / Jack Maake
Analysis Date: October 15, 2020

Project Name/Number: 08164570 Pine Richland

Sample Time: 0845
Analysis Time (hrs): 30.2

Customer sample numbers below are uniquely identified by prefixing Laboratory # 108866-20

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
1014-01	BCYE/GPCV	High School Swimming Lockerroom First	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
1014-02	BCYE/GPCV	High School Swimming Lockerroom Flush	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
1014-03	GPCV	High School Boiler Room First	
AS = 10 CFU/mL (Volume examined: 0.3 mL)			Not Detected
1014-04	BCYE/GPCV	High School Kitchen - Handsink	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
1014-05	BCYE/GPCV	High School, New Boiler Room	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
1014-06	BCYE/GPCV	High School Chiller Pump Room	
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



Customer Name: PSI Intertek
Customer Address: 850 Poplar St
 Pittsburgh, PA 15220

Sample Date: October 14, 2020
Date Received: October 14, 2020
Date of Report: October 26, 2020

Customer Phone: (412) 922-4001
PO Number:

Fax:
Attention: Mike Kopar / Jack Maake
Analysis Date: October 15, 2020

Project Name/Number: 08164570 Pine Richland

Sample Time: 0845
Analysis Time (hrs): 30.2

Customer sample numbers below are uniquely identified by prefixing Laboratory # 108866-20

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
1014-07	BCYE/GPCV	Nurse Room HS	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
1014-08	BCYE/GPCV	Guidance Office Sink HS	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
1014-09	BCYE/GPCV	Middle School Janitor Room - 400 Wing	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
1014-10	BCYE/GPCV	Middle School Room next to Room 109	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
1014-11	BCYE/GPCV	Middle School Physical Plant Room	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
1014-12	BCYE/GPCV	Middle School Boys Lockerroom Sink	
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



Customer Name: PSI Intertek
Customer Address: 850 Poplar St
 Pittsburgh, PA 15220

Sample Date: October 14, 2020
Date Received: October 14, 2020
Date of Report: October 26, 2020

Customer Phone: (412) 922-4001
PO Number:

Fax:
Attention: Mike Kopar / Jack Maake
Analysis Date: October 15, 2020

Project Name/Number: 08164570 Pine Richland

Sample Time: 0845
Analysis Time (hrs): 30.2

Customer sample numbers below are uniquely identified by prefixing Laboratory # 108866-20

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
1014-13	BCYE/GPCV	Stadium Boiler Room	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
1014-14	BCYE/GPCV	Stadium Coach Sink	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
1014-15	BCYE/GPCV	Hot Water Tank Room Wexford Elementary	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
1014-16	BCYE/GPCV	Kitchen Hand Sink Wexford Elementary	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
1014-17	BCYE/GPCV	Teacher Lounge Wexford Elementary	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
1014-18	BCYE/GPCV	Richland Elementary Boiler Room	
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



Customer Name: PSI Intertek
Customer Address: 850 Poplar St
 Pittsburgh, PA 15220

Sample Date: October 14, 2020
Date Received: October 14, 2020
Date of Report: October 26, 2020

Customer Phone: (412) 922-4001
PO Number:

Fax:
Attention: Mike Kopar / Jack Maake
Analysis Date: October 15, 2020

Project Name/Number: 08164570 Pine Richland

Sample Time: 0845
Analysis Time (hrs): 30.2

Customer sample numbers below are uniquely identified by prefixing Laboratory # 108866-20

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
1014-19	BCYE/GPCV	Office Restroom Richland Elem	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
1014-20	BCYE/GPCV	Mechanical Room Eden Hall Middle Tank	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
1014-21	BCYE/GPCV	Mechanical Room Eden Hall Middle Tank	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
1014-22	BCYE/GPCV	Mechanical Room Eden Hall Middle Tank	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
1014-23	BCYE/GPCV	Bathroom HW Tank across Hall from 625	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
1014-24	BCYE/GPCV	Bathroom across from 825 Eden Hall	
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



Customer Name: PSI Intertek
Customer Address: 850 Poplar St
 Pittsburgh, PA 15220

Sample Date: October 14, 2020
Date Received: October 14, 2020
Date of Report: October 26, 2020

Customer Phone: (412) 922-4001
PO Number:

Fax:
Attention: Mike Kopar / Jack Maake
Analysis Date: October 15, 2020

Project Name/Number: 08164570 Pine Richland

Sample Time: 0845
Analysis Time (hrs): 30.2

Customer sample numbers below are uniquely identified by prefixing Laboratory # 108866-20

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
1014-25	BCYE/GPCV	Room 502 HW Tank Eden Hall	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
1014-26	BCYE/GPCV	Staff Restroom near 311 Eden Hall	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
1014-27	BCYE/GPCV	Room 125 Teacher Lounge Sink Eden Hall	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
1014-28	BCYE/GPCV	High School Stadium Visitor	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
1014-29	BCYE/GPCV	High School Stadium Visitor HW Tank	
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

Interpretation of Legionella Culture Results

There are no federal action levels for *Legionella*, however some states, agencies, and organizations have published interpretive guidelines for *Legionella* quantitative culture results. The tables below were modified from *Legionella 2019: A Position Statement and Guidance Document* published by the Association of Water Technologies; the full text and additional resources may be accessed at <https://www.awt.org/legionella/>. It is ultimately the responsibility of a qualified professional to select actions that are appropriate for the situation being evaluated.

Legionella Control Programs: Potable Water

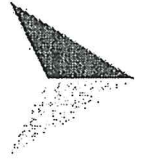
Regulatory Authority	Test Frequency	Legionella Concentration (CFU/mL)	Remediation
NY City	No data		No data
NY State*	Every 90 days first year, annually thereafter	<30% positive results of sites tested	Maintain water management plan (WMP).
		≥30% positive results of sites tested	Immediate short-term control levels. Retest. Persistent ≥30% results - institute long-term control levels.
AIHA	2x/year	1-9	Continue monitoring and review WMP.
		10-100	Identify infection source and online disinfection.
		>100	Identify infection source and offline disinfection.

* Regulation addresses covered facilities (general hospitals and residential healthcare facilities)

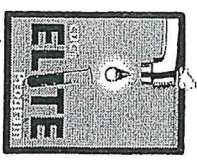
Legionella Control Programs: Cooling Towers & Evaporative Condensers

Regulatory Authority	Test Frequency	Legionella Concentration (CFU/mL)	Remediation
NY City	At system startup and every 90 days thereafter	<10	Maintain water chemistry and biocide levels.
		≥10 - <100	Online disinfection within 24 hours. Retest.
		≥100 - <1000	Online disinfection within 24 hours. Retest. Review WMP.
		≥1000	Online disinfection within 24 hours. Offline disinfection within 48 hours. Retest. Notify DOH within 24 hours of results.
NY State	At system startup and every 90 days thereafter	<20	Maintain water chemistry and biocide levels.
		≥20 - <1000	Online disinfection immediately. Retest. Review WMP.
		≥1000	Online disinfection immediately. Retest. Review WMP. Any retest >1000 offline disinfection immediately.
AIHA	Monthly	10-99	Review WMP and retest until <10 CFU/mL.
		100-1000	Review WMP and conduct an online disinfection until consistently <10 CFU/mL.
		≥1000	Review WMP and conduct an offline disinfection until consistently <10 CFU/mL.

- NY City: *Chapter 8 (Cooling Towers)* of Title 24 of the Rules of the City of New York (2015)
- NY State: *Protection Against Legionella* (2016)
- AIHA: American Industrial Hygiene Association. *Recognition and Control of Legionella in Building Water Systems* (2015)



U.S. Micro-Solutions, Inc.
 1075 S Main Street, Suite 104
 Greensburg, PA 15601
 PHONE: 724-853-4047 FAX: 724-853-4049
 supplies@usmslab.com



AHA-LAP, LLC
 EMLAP #103009

LEGIONELLA / WATER LABORATORY TEST REQUEST/CHAIN OF CUSTODY

CUSTOMER NAME: **PSI INTERNEK** PHONE #: **412-922-4601 x 333** FAX #:

ADDRESS: **830 Poplar ST** CITY: **DTTburg PA** STATE: **PA** ZIP: **15220**

ATTENTION TO: **Mike Koper / Trace Mische** E-MAIL:

SAMPLE OBTAINED BY: **Trace Davis - PSI** RESULTS: FAX EMAIL

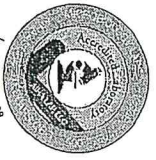
PROJECT NAME/NUMBER: **PSI4570 Pine Ridge** PO#

SAMPLES: Samples collected in New York state? Yes No

SAMPLE NUMBER	SAMPLE DATE/TIME	SAMPLE LOCATION AND DESCRIPTION	WATER		POTABLE WATER		TEST TYPE			LAB USE ONLY	
			WATER	SWAB	YES	NO	LEGIONELLA	Heterotrophic Plate Count	COLILERT	Chlorine (ppm)	Temperature (°C)
1014-01	10/14/04 8:45	High school swimming locker room first	X		X		X				
1014-02	10/14/04 8:50	High school swimming locker room first	X		X		X				
1014-03	9:05 am	High school boiler room first	X		X		X				
1014-04	9:20 am	High school kitchen - hand sink	X		X		X				
1014-05	9:35 am	High school, above boiler room	X		X		X				
1014-06	9:36 am	High school chiller pump room	X		X		X				
1014-07	9:40 am	Nurse room HS	X		X		X				
1014-08	9:45 am	Guidance office sink HS	X		X		X				
1014-09	10:00 am	Middle school janitor room - 400 wing	X		X		X				

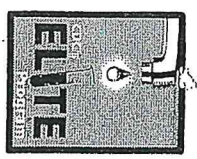
RELINQUISHED BY - CUSTOMER (MUST SIGN): **Trace Davis** DATE AND TIME: **10-14-20**

RECEIVED BY - LAB USE ONLY: **[Signature]** DATE AND TIME: **10/14/20 1450** LABORATORY NUMBER: **108866-20**



U.S. Micro-Solutions, Inc.
 1075 S Main Street, Suite 104
 Greensburg, PA 15601
 PHONE: 724-853-4047 FAX: 724-853-4049
 supplies@usmslab.com

LEGIONELLA / WATER LABORATORY TEST REQUEST/CHAIN OF CUSTODY



AHA-LAP, LLC
 EMLAP #103009

CUSTOMER NAME: **PSI INTERNEK** PHONE #: **412-922-4001 x 333** FAX #:
 ADDRESS: **850 Poplar ST** CITY: **PITTSBURGH** STATE: **PA** ZIP: **15220**

ATTENTION TO: **Mike Kolar / Truck Manager** EMAIL:
 SAMPLE OBTAINED BY: **James Davis - PSI** RESULTS: FAX EMAIL

PROJECT NAME/NUMBER: **DB14570 Pine Richwood** PO#

SAMPLES: Samples collected in New York state? Yes No

SAMPLE NUMBER	SAMPLE DATE/TIME	SAMPLE LOCATION AND DESCRIPTION	WATER		POTABLE WATER		TEST TYPE			LAB USE ONLY	
			WATER	SWAB	YES	NO	LEGIONELLA	Heterotrophic Plate Count	COLILERT	Chlorine (ppm)	Temperature (°C)
1014-16	10/14/08 10:03 am	Middle school Room next to Room 109	X		X		X				
1014-11	10/14/08 10:10 am	Middle school Physical plant room	X		X		X				
1014-12	10/15/08 10:15 am	Middle school Boys locker room sink	X		X		X				
1014-13	10/15/08 10:30 am	Stadium Boiler room	X		X		X				
1014-14	10/15/08 10:30 am	Stadium Coach Sink	X		X		X				
1014-15	10/15/08 10:50 am	Hot water tank Room Westford Elementary	X		X		X				
1014-16	10/15/08 10:50 am	Kitchen hand sink Westford Elementary	X		X		X				
1014-17	10/15/08 10:55 am	Teacher lounge Westford Elementary	X		X		X				
1014-18	10/15/08 11:30	Richland Elementary Boiler room	X		X		X				

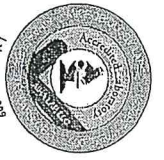
RELINQUISHED BY - CUSTOMER (MUST SIGN) **James Davis** DATE AND TIME **10-14-20**

RECEIVED BY - LAB USE ONLY **PSI** DATE AND TIME **10/14/08 1455** LABORATORY NUMBER **108866-20**

Analyst Initials

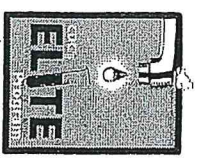


AHA-LAP, LLC
EMLAP #103009



U.S. Micro-Solutions, Inc.
1075 S Main Street, Suite 104
Greensburg, PA 15601
PHONE: 724-853-4047 FAX: 724-853-4049
supplies@usmslab.com

LEGIONELLA / WATER LABORATORY TEST REQUEST/CHAIN OF CUSTODY



CUSTOMER NAME: **PSI INTERNEK** PHONE #: **412-922-4001 x 333** FAX #:
ADDRESS: **850 Poplar ST** CITY: **PITTSBURGH** STATE: **PA** ZIP: **15220**
ATTENTION TO: **Mike Karol / Steve Mucke** EMAIL:

SAMPLE OBTAINED BY: **Tom's Davis. PSI** RESULTS: FAX EMAIL
PROJECT NAME/NUMBER: **DB14570 Pine Ridge** PO#

SAMPLES: Samples collected in New York state? Yes No

SAMPLE NUMBER	SAMPLE DATE/TIME	SAMPLE LOCATION AND DESCRIPTION	WATER		POTABLE WATER		TEST TYPE			LAB USE ONLY	
			SWAB	YES	NO	LEGIONELLA	Heterotrophic Plate Count	COLILERT	Chlorine (ppm)	Temperature (°C)	LAB USE ONLY
1014-19	10/14/10 11:30 am	Office Restroom Richmond Elem	X	X		X					
1014-20	11:35 am	Mechanical Room Eden Hall Middle	X	X		X					
1014-21	11:36 am	↓	X	X		X					
1014-22	11:37 am	↓ EDEN Hall	X	X		X					
1014-23	11:40 am	Bathroom and Tank across hall from 605	X	X		X					
1014-24	11:46 am	Bathroom across from 825 EDEN Hall	X	X		X					
1014-25	11:50 am	Room 501 thru tank EDEN Hall	X	X		X					
1014-26	11:53 am	Shall Restroom near 311 EDEN Hall	X	X		X					
1014-27	12:00 pm	Room 115 Sink Teacher lounge Eden Hall	X	X		X					

RECEIVED BY - LAB USE ONLY: **[Signature]** DATE AND TIME: **10/14/10 1450**
LABORATORY NUMBER: **108866-20**
RELINQUISHED BY - CUSTOMER (MUST SIGN): **[Signature]** DATE AND TIME: **10-14-20**
Analyst Initials: **[Signature]**



AIHA-LAP, LLC
EMLAP #103009

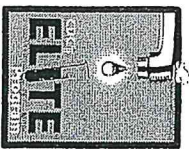


LEGIONELLA / WATER LABORATORY TEST REQUEST/CHAIN OF CUSTODY

U.S. Micro-Solutions, Inc.

1075 S Main Street, Suite 104
Greensburg, PA 15601
PHONE: 724-853-4047 FAX: 724-853-4049
supplies@usmslab.com

NY EMLAP #12055
The New York Environmental
Laboratory Approval Program



CUSTOMER NAME: **PSI INTERNEK** PHONE #: **412-922-4001 x 383** FAX #:

ADDRESS: **850 Poplar ST** CITY: **Pittsburgh** STATE: **PA** ZIP: **15220**

ATTENTION TO: **Mike Kears / Jack Macke** E-MAIL:

SAMPLE OBTAINED BY: **James Davis - PSI** RESULTS: FAX EMAIL

PROJECT NAME/NUMBER: **DB14570 Pine Ridge** PO#:

SAMPLES: Samples collected in New York state? Yes No

SAMPLE NUMBER	SAMPLE DATE/TIME	SAMPLE LOCATION AND DESCRIPTION	WATER		POTABLE WATER		TEST TYPE			LAB USE ONLY	
			SWAB	YES	NO	LEGIONELLA	Heterotrophic Plate Count	COLILERT	Chlorine (ppm)	Temperature (°C)	
1014-25	10/14/20 12:15pm	High school G-facuum visitor	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1014-29	12:15pm	High school Stadium Visitor Hw tank	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

RELINQUISHED BY - CUSTOMER (MUST SIGN): **James Davis** DATE AND TIME: **10-14-20**

RECEIVED BY - LAB USE ONLY: **[Signature]** DATE AND TIME: **10/14/20** LABORATORY NUMBER: **108866-26**