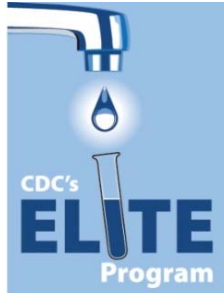


# Legionella ViaScan Analysis

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Inspector: Buddy Holly

Date Collected: 12/31/2019

Project Name: Hyde Park Playground

Date Received: 1/1/2020

Project Number: 1

Date Reported: 1/11/2020

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Assured Bio Identifier: BH010120-1

Analyst(s): G. Brooks

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## Selected References

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Macher, J., Ed. 1999. *Bioaerosols: Assessment and Control*. ACGIH, Cincinnati, Ohio.

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## Accreditation

Assured Bio Labs has been a member of the CDC's Environmental Legionella Isolation Techniques Evaluation (ELITE) Program since 2009 and maintains proficiency through ongoing PT samples. Assured Bio Labs, LLC is accredited by the American Industrial Hygiene Association Laboratory Accreditation Programs, LLC (AIHA-LAP, LLC; Lab ID # 183867) in the Environmental Microbiology accreditation program for "*Legionella* Culture" Field of Testing as documented by the Scope of Accreditation Certificate and associated Scope. AIHA-LAP, LLC accreditation complies with the ISO/IEC Standard 17025:2005 requirements, but this does not imply ISO certification or registration."

## Limitations

ASSURED BIO LABS, LLC MAKES NO WARRANTIES AND EXPRESSLY DISCLAIMS THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PURPOSE. INSPECTOR ACKNOWLEDGES THAT ASSURED BIO LABS, LLC HAS NOT INSPECTED THE SUBJECT PROPERTY AND THAT THE INSPECTOR IS SOLELY RESPONSIBLE FOR CHOOSING THE LOCATION OF SAMPLE COLLECTION. ASSURED BIO LABS, LLC SHALL NOT BE LIABLE TO THE INSPECTOR FOR ANY INCIDENTAL, CONSEQUENTIAL, SPECIAL OR PUNITIVE DAMAGES OF ANY KIND OR NATURE, INCLUDING, WITHOUT LIMITATION, ANY DAMAGES TO PROPERTY OR PERSONAL INJURY WHETHER SUCH LIABILITY IS ASSERTED ON THE BASIS OF CONTRACT, TORT, OR OTHERWISE, EVEN IF ASSURED BIO LABS, LLC HAS BEEN WARNED OF THE POSSIBILITY OF SUCH LOSS OR DAMAGE. UNDER NO CIRCUMSTANCES SHALL ASSURED BIO LABS, LLC BE LIABLE FOR DAMAGES UNDER OR ARISING OUT OF THIS REPORT IN AN AMOUNT EXCEEDING THE AMOUNT PAID BY THE INSPECTOR TO ASSURED BIO LABS, LLC FOR THIS ANALYSIS AND REPORT. THIS REPORT IS FOR THE SOLE USE OF THE INSPECTOR AND CREATES NO THIRD PARTY BENEFICIARIES OR RIGHTS HEREUNDER.

### Methods of Analysis

Assured Bio Labs, LLC uses the following Standard Operating Procedures for the analysis of samples: CD 165: Detection of Legionella in Environmental Samples via Culture (CDC ELITE)

### Reporting Limits

**Method Detection Limit:** The American Industrial Hygiene Association defines this term in AIHA-LAP, LLC Policy Document – Module 9 as "The minimum concentration of an analyte that, in a given matrix and with a specific method, has a 99 percent probability of being identified, qualitatively or quantitatively measured, and reported to be greater than zero."

**Reporting Limit:** The American Industrial Hygiene Association defines this term in AIHA-LAP, LLC Policy Document – Module 9 as "The lowest concentration of analyte in a sample that can be reported with a defined, reproducible level of certainty."

Values less than one will be rounded up to one per reported unit. The reporting limit(s) and result(s) are calculated based on the sampling information (i.e. collection volume, area, mass, etc.) provided by the customer as noted on the Chain of Custody. The results apply to the sample(s) as received.

### Additional Comments and Method Limitations

The analytical data included in this report reflect only the conditions of the material sampled and submitted to the laboratory for analysis at the time of collection. The results included in this report may not be used for past or future environmental conditions.

Assured Bio Labs, LLC utilizes the standard outlined in *Bioaerosols: Assessment and Control* by J. Macher when making reliable interpretations. It states, "In general, 25 to 250 bacterial colonies and 10 to 60 fungal colonies are considered optimal for accurate counting and identification of CFU's on standard 100-mm plates." When multiple plates per sample are counted, that with highest number of colonies will be reported. Colony counts outside of the above optimal ranges should be considered estimates based on the best available plate counted. Colony counts greater than this range may be reported as "Too Numerous to Count" using a greater than ">" sign to indicate the minimum possible concentration.

The results obtained from samples submitted to Assured Bio Labs, LLC depend greatly upon conditions at the time of culture. Conditions which have been found to effect sample results include, but are not limited to, temperature, humidity, growth media, unique growth requirements, sample volume, light exposure, incubation time, and sample overloading.

Assured Bio Labs performs Legionella testing using a CDC ELITE Proficient method for the detection of presumptive *Legionella* in environmental samples. Any further determination requires additional methods including slide agglutination, direct fluorescence antibody, or DNA sequencing.

Any modifications to a method of analysis shall be discussed with the inspector prior to sample processing and shall be documented directly under the effected sample.

Sample processing and incubation conditions are as follows unless otherwise noted:

Date Filtered:	1/1/2020	Volume Filtered:	120 mL	Incubation Temperature:	36 ± 2 °C
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Date Plated:	1/1/2020	Date Analyzed:	1/11/2020
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**Assured Bio Identifier:** BH010120-1-1  
**Sample ID:** 1  
**Sample Description:** Water Fountain

**Sample Type:** Potable Water  
**Sample Condition:** Intact  
**Reporting Limit:** 0.167 CFU/mL

	<u>Colony Forming Units Counted</u>	<u>Colony Forming Units/Milliliter of Water</u>
<i>Legionella</i>	None Detected	Below Detectable Limits

Comments: Sample was BELOW DETECTABLE LIMITS After 10 Days of Incubation.

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**Assured Bio Identifier:** BH010120-1-2  
**Sample ID:** 2  
**Sample Description:** Cooling Tower

**Sample Type:** Non-Potable Water  
**Sample Condition:** Intact  
**Reporting Limit:** 10 CFU/mL

	<u>Colony Forming Units Counted</u>	<u>Colony Forming Units/Milliliter of Water</u>
<i>Legionella</i>	2	20

Comments: Sample was POSITIVE on GPVC Selective Agar.

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