



Environmental Matters, Inc.

December 3, 2020

Chris Valianatos
Borderline Restaurant
2100 W. Union Blvd.
Bethlehem, PA 18018

RE: SARS-CoV-2 Air and Surface Sampling Report

Borderline Restaurant
2100 W. Union Blvd.
Bethlehem, Pennsylvania

Dear Mr. Valianatos:

On November 21, 2020, I performed air and surface sampling at the referenced restaurant to measure the possible presence of the SARS-CoV-2 virus as a consequence of the presence of dining occupants. The restaurant had been open since 6:00 AM that day. The occupancy of the restaurant was about half of full capacity during the sampling. Air sampling was performed from approximately 11:00 AM through 2:30 PM. Tabletop surface samples were collected between 2:30 and 3:00 PM.

As you know, your restaurant installed and has been operating in-duct and room air purification equipment designed to purify the air including inactivating/disrupting microbial contaminants such as the SARS-CoV-2 virus. This equipment was operating during my sampling. An RGF Reme Halo photocatalytic oxidation unit (PCO) was operating in the HVAC systems servicing the dining/lobby areas. In addition, three portable Aerobiotix GermZone PCO units were operating in the lobby, main dining room and banquet room.

The air samples were collected in three representative locations: lobby area, main dining room, and banquet room. Surface sampling was performed on two representative active tabletops in the main dining room and one representative active tabletop in the banquet room. The tabletops were cleared and cleaned by the staff after each party using the restaurant's standardized disinfectant wiping procedure.

Field Sampling and Analytical Methods

The air samples were collected at 5.0 liters per minute on 0.2 um polycarbonate filters in open-faced 3-piece cassettes connected to calibrated Gilian Sensidyne constant flow-high volume air sampling pumps. Each surface sample was collected from 16 square inches in the center of the tabletop on a Puritan 6" HydraFlock flocked swab with an elongated tip. All samples were submitted to the laboratory for analysis by real-time reverse transcription polymerase chain reaction (rRT -PCR) method. The samples were maintained on ice and hand delivered to QLAB in Metuchen, New Jersey within two hours of collection.

Mr. C. Valianatos
December 3, 2020
Page 2 of 2

Analysis was performed by QLAB's Phase 1 RNA Detection method RNAScreenSM qRT-PCR for naked RNA and RNA from broken and intact viruses.

QLAB is accredited by the American Industrial Hygiene Association in environmental microbiology and a successful NIST-NVLAP and EMPAT proficient laboratory. QLAB is also certified by the CDC ELITE program.

Sampling Findings

The analytical results of both the air and surface samples analysis showed no detectable levels of the SARS-CoV-2 virus during the breakfast and lunch occupancy period with the engineering controls in place and operating. The laboratory's positive and negative quality control procedures passed the criteria for verification of the analyses.

Following are the sampling data / chain of custody record and the laboratory results of the air and surface sampling.

If you have any questions, please feel free to contact me.

Sincerely,

Environmental Matters, Inc.



Richard J. Levin, CIH
Principal Consultant

rick.levin@envmatters.com



QLab, 256 Bridge St, Metuchen, NJ 08840

info@qlabusa.com www.QLABusa.com

AIHA EMPAT Lab ID: 178794

Analysis: SARS-CoV-2 Virus RT-PCR Analysis

Client: Environmental Matters, Inc.
Philadelphia, PA

Contact: Levin, Rick

Project ID: Borderline Restaurant

QLAB Job No.: ME201121-01

Date Sampled: 11/21/2020

Date Received: 11/21/2020

Date Reported: 12/1/2020

Reviewed by: WT

Approved by: Wei-Chih Tang, Ph.D., Lab Director

Lab Sample No.	ME201121-01(1)	ME201121-01(2)	ME201121-01(3)
Sample ID	BR-1CA	BR-2CA	BR-3CA
Sample Location	Banquet Rm.	Main Dining Rm.	Pit (Front Area)
Sample Type (Device)	Air (Filter Cassette, PC, 0.2µm)	Air (Filter Cassette, PC, 0.2µm)	Air (Filter Cassette, PC, 0.2µm)
Date Analyzed	12/1/2020	12/1/2020	12/1/2020
Amount of Sample Prepared	0.965 m ³	0.925 m ³	0.935 m ³
Dilution & Multiplication Factors	1 10	1 10	1 10
Detection Limit (DL)	311 cp/m ³	324 cp/m ³	321 cp/m ³
Sample Analysis			
SARS-CoV-2 (WHO E Gene)	Not Detected cp/m ³	Not Detected cp/m ³	Not Detected cp/m ³
Internal Positive Control (RNA)	Pass	Pass	Pass
Positive Control (E Gene)	Pass	Pass	Pass
Negative Control (E Gene)	Pass	Pass	Pass
Note			

Lab Sample No.	ME201121-01(4)	ME201121-01(5)	ME201121-01(6)
Sample ID	BR-4CW	BR-5CW	BR-6CW
Sample Location	Banquet Rm. / S.W. Corner Table Top	Main Dining Rm. / West Side Table Top	Main Dining Rm. / East Side Table Top
Sample Type (Device)	Surface (VTM Flocked Swab)	Surface (VTM Flocked Swab)	Surface (VTM Flocked Swab)
Date Analyzed	12/1/2020	12/1/2020	12/1/2020
Amount of Sample Prepared	16 in ²	16 in ²	16 in ²
Dilution & Multiplication Factors	1 6	1 6	1 6
Detection Limit (DL)	11 cp/in ²	11 cp/in ²	11 cp/in ²
Sample Analysis			
SARS-CoV-2 (WHO E Gene)	Not Detected cp/in ²	Not Detected cp/in ²	Not Detected cp/in ²
Internal Positive Control (RNA)	Pass	Pass	Pass
Positive Control (E Gene)	Pass	Pass	Pass
Negative Control (E Gene)	Pass	Pass	Pass
Note			



256 Bridge Street, Metuchen, NJ 08840, USA

Chain of Custody

Toll Free Tel/Fax: 888-QLab-Wei (888-752-2934)

Tel: 856-489-0011 www.QLabUSA.com

Lab Job No.: ME 201121-01 (lab use only)	Telephone No.: 215-763-5555	Company Contact: RICK LEVIN
Company Name: ENVIRONMENTAL MATTERS, INC.	Please select: Fax Report () or Email Report (X)	Project ID: BORDERLINE RESTAURANT
Company Address: 786 N. 25th St. PHILADELPHIA, PA 19130	Fax No.:	Date/Time sampled: 11/21/20 11:00A
	Email address: RICK.LEVIN@ENVMATTERS.COM	P.O. No.:

Sample ID	Sample Location	TIME FLOW RATE (LPM) (START / FINISH)	Analysis Code	Turnaround Time (Std, 1-2 Day, 3-6 Hr)			Sample Type (see below)	Volume (L) or Area (in ²)	FLOW RATE (LPM) Note (START) / (FINISH) (e.g.: material type, weather, etc.)
				Std	5 Day	__ Hr			
BR-1CA	BANQUET RM.	11:02A / 2:55P	COV-19-LIVE(HEAD)		X		0.2 μ PC FILTER CASSETTE	965 L	5.0 / 5.0
BR-2CA	MAIN DINING RM.	11:11A / 2:06P	↓		X		↓	925 L	5.0 / 5.0
BR-3CA	PIT (FRONT AREA)	11:21A / 2:28P	↓		X		↓	935 L	5.0 / 5.0
BR-4CW	BANQUET RM. / S.W. CORNER TABLE TOP		↓		X		STERILE FLOCKED COLLECTION DEVICE	16 in. ²	
BR-5CW	MAIN DINING RM / WEST SIDE TABLE TOP		↓		X		↓	16 in. ²	
BR-6CW	MAIN DINING RM. / EAST SIDE TABLE TOP		↓		X		↓	16 in. ²	

Sample Types: Air-O-Cell, Bio-Tape, swab, Andersen, bulk, dust, filter cassette, potable water, non-potable water, etc. **Material Types:** wood, paper, etc.

Common Analysis Codes: Fungi, Direct Exam: (1) Spore Trap: **FD-01HP**; (2) Tape-lift: **FD-02HP**; (3) Swab, Bulk, Dust: **FD-04HP**.

Fungi, Culture: (1) Andersen/plate: **FC-11**; (2) Swab, Bulk, Dust: **FC-12**

Submitted by: (sign) (print) **RICHARD J. LEVIN**

Date submitted: **11/21/20**

Received by: (sign) (print) **Wei Tang**

Date and time received: **NOV, 21 2020 4:30pm**