

POST-DISINFECTION CORONAVIRUS-19 FIELD VERIFICATION TESTING REPORT

CLIENT:	Mitchell Gayer NJIT 333 Martin Luther King Blvd Newark, NJ 07102
SITE LOCATION:	NJIT 333 Martin Luther King Blvd Newark, NJ 07102
SCOPE OF WORK:	COVID-19 Verification Testing
AREAS TESTED:	Campus-Wide
CLIENT CONTACT(S):	Mitchell Gayer
SITE EVALUATION CONDUCTED:	3/30 & 3/31/2021
DATE OF REPORT:	4/02/2021
REPORT PREPARED BY:	Ross Hernandez & Kadeem Hill
REPORT REVIEWED BY:	Veronica Kero CIH, P.E.

{Omega Project#: 21-1040}

Table of Contents

 Executive Summary Project Overview Project Overview/Scope of Work Bio-Load and COVID-19 Field Sampling & Analysis Protocol ATP Direct Read: Bioluminescence ATP Direct Read Meter Data Data Interpretation Field Notes COVID-19 PCR DNA Sequencing SARS-CoV-2 PCR DNA Swab Sample Results SARS-CoV-2 PCR DNA Air Sample Results 					
Project Overview	3				
Project Overview/Scope of Work					
Bio-Load and COVID-19 Field Sampling & Analysis Protocol					
ATP Direct Read: Bioluminescence	4				
ATP Direct Read Meter Data					
Data Interpretation					
• Field Notes					
COVID-19 PCR DNA Sequencing	13				
 SARS-CoV-2 PCR DNA Swab Sample Results 					
SARS-CoV-2 PCR DNA Air Sample Results					
Data Interpretation					
Attachments	16				
Laboratory analysis reports with chain-of-custody					

Executive Summary:

On 3/30/2021 and 3/31/2021, Omega Environmental Services conducted representative ATP surface testing and SARS-CoV-2 environmental sampling in the following buildings on the NJIT campus:

- Weston Hall
- Campus Center
- Central King Building (CKB)
- Kupfrian Hall
- Life Sciences & Engineering Center (LSEC)
- Laurel Residential Hall
- Honors College Residential Hall

- Wellness Entertainment Center (WEC)
- Redwood Residential Hall
- Cypress Residential Hall
- Faculty Memorial Hall (FMH)
- Cullimore Hall
- Mechanical Engineering Center (MEC)
- Guttenberg Information Technologies Center (GITC)

The purpose of this testing was to document adequate disinfection and cleaning by the NJIT Building Service staff.

Parameter	Results
Adenosine Triphosphate (ATP) Direct Reads: Bioluminescence Meter (Detects Bacteria and Bio- Load)	 23-out-of-170 representative ATP surface samples collected reported elevated ATP levels (13.5% of samples). 4-out-of the 23 samples with elevated ATP levels were pre-cleaning samples. Meaning they were collected before the area was cleaned by NJIT building services. In the Wellness Entertainment Center, the average pre-cleaning ATP concentration with 248 RLU, with 40% of the samples indicating elevated ATP levels. The average post-cleaning ATP concentration with 35 RLU, representing an 86% reduction in ATP concentrations Omega Environmental Services collected SARS-CoV-2 surface samples on 18 out of the 23 representative surfaces with elevated ATP levels.
SARS-CoV-2 PCR Samples	• Laboratory results indicate all the SARS-CoV-2 air and surface samples collected on 3/30/21 and 3/31/21 were negative.

Bio-Load and SARS-CoV-2 Field Sampling & Analysis Protocol:

While a COVID-19 PCR DNA sequencing field testing method has become available, pre-screen methods that apply to overall bacteria cleaning are being employed to more efficiently clear areas and reduce testing costs.

- REAL-TIME FIELD SCREEN USING ATP DIRECT-READ BIO-LUMINESCENCE METER AND WHITE CLOTH TESTS: Omega field IH to inspect the room and collect ATP swabs on all component basis to assess overall cleaning thoroughness. If there are ATP swab results statistically above "typical background," re-cleaning of the room will be requested followed by repeat ATP testing before proceeding with further testing.
- COVID-19 PCR DNA SEQUENCING METHOD: Once a room passes the above described bio-load testing protocols, a COVID-19 PCR swab will be collected from alternating room locations.
- COVID-19 PCR AIR SAMPLING METHOD: Air samples are collected using a linear oscillating pump in conjunction with a 0.3 µm Polytetrafluoroethylene (PTFE) filter housed 37 mm cassettes. The pump pulls the air from the surrounding area into the cassette where any airborne virus particulates are captured. The samples are collected at a flow rate of 15 liters per minute (LPM), for 2 hours, totaling 1800 liters. Once sampling is complete, samples are shipped to an independent laboratory for analysis. Samples are analyzed via a polymerase chain reaction (PCR) method. The PCR method relies on a protein responsible for DNA replication in cells, please note this protein will only replicate DNA strands that match the COVID-19 sequence. If replication exceeds a threshold established by the laboratory the sample is determined to be positive for the COVID-19 strand. Test results should be used as metrics for cleaning success rather than a direct estimator for infection potential.

Definitions:

ATP - Adenosine Triphosphate RLU – Relative Light Unit *- Elevated ATP Levels

ATP Direct Read: Bio-Luminescence Meter (Hygiena/Ensure) Data:

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
1	03/30/2021 09:31 AM	Honors College Residential Hall	Elevator Lobby Room 111	1 st Floor "Up" Elevator Call Button, Up	76	105	211	
2	03/30/2021 09:32 AM	Honors College Residential Hall	2 nd Floor Hallway	2 nd Floor "Up" Elevator Call Button, Down	14	105	211	Elevator Lobby Room 111 side of the building.
3	03/30/2021 09:33 AM	Honors College Residential Hall	3 rd Floor Hallway	3 rd Floor "Up" Elevator Call Button, Down*	230	105	211	Elevator Lobby Room 111 side of the building. SARS-CoV- 2 sample collected.
4	03/30/2021 09:33 AM	Honors College Residential Hall	4 th Floor Hallway	4 th Floor "Up" Elevator Call Button, Down	64	105	211	Elevator Lobby Room 111 side of the building.
5	03/30/2021 09:34 AM	Honors College Residential Hall	5 th Floor Hallway	5 th Floor "Up" Elevator Call Button, Down	45	105	211	Elevator Lobby Room 111 side of the building. SARS-CoV- 2 sample collected.
6	03/30/2021 09:35 AM	Honors College Residential Hall	6 th Floor Hallway	6 th Floor "Up" Elevator Call Button, Down	109	105	211	Elevator Lobby Room 111 side of the building.

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
7	03/30/2021 09:35 AM	Honors College Residential Hall	2 nd Floor Hallway	2 nd Floor "Down" Elevator Call Button, Down	12	105	211	Elevator Lobby Room 105 side of the building.
8	03/30/2021 09:36 AM	Honors College Residential Hall	3 rd Floor Hallway	3 rd Floor "Down" Elevator Call Button, Down	75	105	211	Elevator Lobby Room 105 side of the building. SARS-CoV- 2 sample collected.
9	03/30/2021 09:36 AM	Honors College Residential Hall	4 th Floor Hallway	4 th Floor "Down" Elevator Call Button, Down	151	105	211	Elevator Lobby Room 105 side of the building.
10	03/30/2021 09:37 AM	Honors College Residential Hall	5 th Floor Hallway	5 th Floor "Down" Elevator Call Button, Down	115	105	211	Elevator Lobby Room 105 side of the building.
11	03/30/2021 09:37 AM	Honors College Residential Hall	6 th Floor Hallway	6 th Floor "Down" Elevator Call Button, Down*	215	105	211	Elevator Lobby Room 105 side of the building. SARS-CoV- 2 sample collected.
12	03/30/2021 10:11 AM	Laurel Residential Hall	2 nd Floor Hallway	2 nd Floor Elevator Call Button, Down	86	105	211	
13	03/30/2021 10:12 AM	Laurel Residential Hall	3 rd Floor Hallway	3 rd Floor Elevator Call Button, Down	31	105	211	
14	03/30/2021 10:12 AM	Laurel Residential Hall	4 th Floor Hallway	4 th Floor Elevator Call Button, Down*	311	105	211	SARS-CoV-2 sample collected.
15	03/30/2021 10:13 AM	Laurel Residential Hall	5 th Floor Hallway	5 th Floor Elevator Call Button, Down*	452	105	211	SARS-CoV-2 sample collected.

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
16	03/30/2021 10:13 AM	Laurel (Extension) Residential Hall	2 nd Floor Hallway	2 nd Floor Elevator Call Button, Down	127	105	211	
17	03/30/2021 10:14 AM	Laurel (Extension) Residential Hall	3 rd Floor Hallway	3 rd Floor Elevator Call Button, Down	36	105	211	
18	03/30/2021 10:15 AM	Laurel (Extension) Residential Hall	4 th Floor Hallway	4 th Floor Elevator Call Button, Down	43	105	211	
19	03/30/2021 10:15 AM	Laurel (Extension) Residential Hall	5th Floor Hallway	5 th Floor Elevator Call Button, Down	51	105	211	
20	03/30/2021 10:16 AM	Laurel (Extension) Residential Hall	6 th Floor Hallway	6 th Floor Elevator Call Button, Down*	418	105	211	SARS-CoV-2 sample collected.
21	03/30/2021 10:16 AM	Laurel (Extension) Residential Hall	7 th Floor Hallway	7 th Floor Elevator Call Button, Down	43	105	211	
22	03/30/2021 10:36 AM	Oak Residential Hall	2 nd Floor Hallway	2 nd Floor Elevator Call Button, Down	56	105	211	
23	03/30/2021 10:36 AM	Oak Residential Hall	3 rd Floor Hallway	3 rd Floor Elevator Call Button, Down*	312	105	211	SARS-CoV-2 sample collected.
24	03/30/2021 10:37 AM	Oak Residential Hall	4 th Floor Hallway	4 th Floor Elevator Call Button, Down*	1134	105	211	SARS-CoV-2 sample collected.

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
25	03/30/2021 10:38 AM	Oak Residential Hall	5 th Floor Hallway	5 th Floor Elevator Call Button, Down*	388	105	211	SARS-CoV-2 sample collected.
26	03/30/2021 10:38 AM	Oak Residential Hall	6 th Floor Hallway	6 th Floor Elevator Call Button, Down*	340	105	211	SARS-CoV-2 sample collected.
27	03/30/2021 10:39 AM	Oak Residential Hall	7 th Floor Hallway	7 th Floor Elevator Call Button, Down	127	105	211	
28	03/30/2021 10:39 AM	Oak Residential Hall	8 th Floor Hallway	8th Floor Elevator Call Button, Down	53	105	211	
29	03/30/2021 12:36 PM	Campus Center	1 st Floor Sitting Area	Surface of ATM, Touch Screen	93	105	211	
30	03/30/2021 12:36 PM	Campus Center	1 st Floor Sitting Area	Surface of Snack Vending Machine, Touch Screen	180	105	211	
31	03/30/2021 12:37 PM	Campus Center	1 st Floor Sitting Area	Surface of Drink Vending Machine, Keypad*	269	105	211	SARS-CoV-2 sample collected.
32	03/30/2021 12:37 PM	Campus Center	1 st Floor Sitting Area	Surface of Amazon Locker, Keypad*	270	105	211	SARS-CoV-2 sample collected.
33	03/30/2021 12:38 PM	Campus Center	1 st Floor Sitting Area	Surface of Table 2*	616	105	211	SARS-CoV-2 sample collected.
34	03/30/2021 12:38 PM	Campus Center	1 st Floor Sitting Area	Surface of Table 4, Seat 1*	251	105	211	SARS-CoV-2 Sample not collected due to student occupancy of the desk
35	03/30/2021 12:39 PM	Campus Center	1 st Floor Sitting Area	Surface of Table 6, Seat 2*	266	105	211	SARS-CoV-2 sample collected.
36	03/30/2021 12:54 PM	Redwood Residential Hall	3 rd Floor Hallway	3 rd Floor Elevator 1 Call Button, Down	91	105	211	
37	03/30/2021 12:55 PM	Redwood Residential Hall	3 rd Floor Hallway	3 rd Floor Elevator 2 Call Button, Down	2	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
38	03/30/2021 12:55 PM	Redwood Residential Hall	4 th Floor Hallway	4 th Floor Elevator 1 Call Button, Down	16	105	211	
39	03/30/2021 12:56 PM	Redwood Residential Hall	4 th Floor Hallway	4 th Floor Elevator 2 Call Button, Down	12	105	211	
40	03/30/2021 12:56 PM	Redwood Residential Hall	5 th Floor Hallway	5 th Floor Elevator 1 Call Button, Down	29	105	211	
41	03/30/2021 12:57 PM	Redwood Residential Hall	5 th Floor Hallway	5 th Floor Elevator 2 Call Button, Down	29	105	211	
42	03/30/2021 01:06 PM	Cypress Residential Hall	2 nd Floor Hallway	2 nd Floor Elevator Call Button, Down*	346	105	211	SARS-CoV-2 sample collected.
43	03/30/2021 01:06 PM	Cypress Residential Hall	3 rd Floor Hallway	3 rd Floor Elevator Call Button, Down*	362	105	211	SARS-CoV-2 sample collected.
44	03/30/2021 01:07 PM	Cypress Residential Hall	4 th Floor Hallway	4 th Floor Elevator Call Button, Down	109	105	211	
45	03/30/2021 01:07 PM	Cypress Residential Hall	5 th Floor Hallway	5 th Floor Elevator Call Button, Down	82	105	211	
46	03/30/2021 01:08 PM	Cypress Residential Hall	6 th Floor Hallway	6 th Floor Elevator Call Button, Down	183	105	211	
47	03/30/2021 01:08 PM	Cypress Residential Hall	7 th Floor Hallway	7 th Floor Elevator Call Button, Down*	495	105	211	SARS-CoV-2 sample collected.
48	03/30/2021 01:09 PM	Cypress Residential Hall	8th Floor Hallway	8 th Floor Elevator Call Button, Down	144	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
49	03/30/2021 01:26 PM	Cullimore Hall	110	Surface of Row 1, Seat 1	12	105	211	
50	03/30/2021 01:26 PM	Cullimore Hall	110	Surface of Row 1, Seat 3	14	105	211	
51	03/30/2021 01:26 PM	Cullimore Hall	110	Surface of Row 1, Seat 5	24	105	211	
52	03/30/2021 01:27 PM	Cullimore Hall	110	Surface of Row 1, Seat 7	32	105	211	
53	03/30/2021 01:28 PM	Cullimore Hall	110	Surface of Row 3, Seat 1	2	105	211	
54	03/30/2021 01:28 PM	Cullimore Hall	110	Surface of Row 3, Seat 3	22	105	211	
55	03/30/2021 01:29 PM	Cullimore Hall	110	Surface of Row 3, Seat 5	27	105	211	
56	03/30/2021 01:29 PM	Cullimore Hall	110	Surface of Row 3, Seat 7	33	105	211	
57	03/30/2021 01:30 PM	Cullimore Hall	110	Surface of Row 5, Seat 1	21	105	211	
58	03/30/2021 01:30 PM	Cullimore Hall	110	Surface of Row 5, Seat 3	15	105	211	
59	03/30/2021 01:31 PM	Cullimore Hall	110	Surface of Row 5, Seat 5	19	105	211	
60	03/30/2021 01:31 PM	Cullimore Hall	110	Surface of Row 5, Seat 7	24	105	211	
61	03/31/2021 09:09 AM	LSEC	102	Surface of Table 1	22	105	211	
62	03/31/2021 09:10 AM	LSEC	102	Surface of Table 2	31	105	211	
63	03/31/2021 09:10 AM	LSEC	102	Surface of Table 3	14	105	211	
64	03/31/2021 09:11 AM	LSEC	102	Surface of Table 4	10	105	211	
65	03/31/2021 09:12 AM	LSEC	102	Surface of Table 5	26	105	211	
66	03/31/2021 09:12 AM	LSEC	102	Surface of Table 6	18	105	211	
67	03/31/2021 09:13 AM	LSEC	102	Surface of Table 7	20	105	211	

Page 10 of 29 Coronavirus-19 Verification Testing Report {Omega Project #: 21-1040} Omega Environmental Services, Inc. 280 Huyler Street - South Hackensack, NJ 07606 - Tel: (201) 489-8700 - Fax: (201) 342-5412

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
68	03/31/2021 09:14 AM	LSEC	102	Surface of Table 8	12	105	211	
69	03/31/2021 09:14 AM	LSEC	102	Surface of Table 9	9	105	211	
70	03/31/2021 09:15 AM	LSEC	102	Surface of Table 10	14	105	211	
71	03/31/2021 09:15 AM	LSEC	102	Surface of Table 11	18	105	211	
72	03/31/2021 09:16 AM	LSEC	102	Surface of Table 12	14	105	211	
73	03/31/2021 09:16 AM	LSEC	102	Surface of Table 13	11	105	211	
74	03/31/2021 09:17 AM	LSEC	102	Surface of Table 14	54	105	211	
75	03/31/2021 09:31 AM	Faculty Memorial Hall (FMH)	314	Surface of Row 1, Seat 1	25	105	211	
76	03/31/2021 09:32 AM	Faculty Memorial Hall (FMH)	314	Surface of Row 1, Seat 3	34	105	211	
77	03/31/2021 09:32 AM	Faculty Memorial Hall (FMH)	314	Surface of Row 1, Seat 5	66	105	211	
78	03/31/2021 09:33 AM	Faculty Memorial Hall (FMH)	314	Surface of Row 1, Seat 7	30	105	211	
79	03/31/2021 09:34 AM	Faculty Memorial Hall (FMH)	314	Surface of Row 1, Seat 9	23	105	211	
80	03/31/2021 09:34 AM	Faculty Memorial Hall (FMH)	314	Surface of Row 1, Seat 11	22	105	211	
81	03/31/2021 09:35 AM	Faculty Memorial Hall (FMH)	314	Surface of Row 2, Seat 1	26	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
82	03/31/2021 09:36 AM	Faculty Memorial Hall (FMH)	314	Surface of Row 2, Seat 3	21	105	211	
83	03/31/2021 09:36 AM	Faculty Memorial Hall (FMH)	314	Surface of Row 2, Seat 5	28	105	211	
84	03/31/2021 09:37 AM	Faculty Memorial Hall (FMH)	314	Surface of Row 2, Seat 7	10	105	211	
85	03/31/2021 09:37 AM	Faculty Memorial Hall (FMH)	314	Surface of Row 2, Seat 9	33	105	211	
86	03/31/2021 09:38 AM	Faculty Memorial Hall (FMH)	314	Surface of Row 2, Seat 11	27	105	211	
87	03/31/2021 09:38 AM	Faculty Memorial Hall (FMH)	314	Surface of Row 3, Seat 1	9	105	211	
88	03/31/2021 09:39 AM	Faculty Memorial Hall (FMH)	314	Surface of Row 3, Seat 3	19	105	211	
89	03/31/2021 09:39 AM	Faculty Memorial Hall (FMH)	314	Surface of Row 3, Seat 5	25	105	211	
90	03/31/2021 09:40 AM	Faculty Memorial Hall (FMH)	314	Surface of Row 3, Seat 7	21	105	211	
91	03/31/2021 09:41 AM	Faculty Memorial Hall (FMH)	314	Surface of Row 3, Seat 9	34	105	211	
92	03/31/2021 09:41 AM	Faculty Memorial Hall (FMH)	314	Surface of Row 3, Seat 11	36	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
93	03/31/2021 09:42 AM	Faculty Memorial Hall (FMH)	314	Surface of Row 4, Seat 1	13	105	211	
94	03/31/2021 09:42 AM	Faculty Memorial Hall (FMH)	314	Surface of Row 4, Seat 3	28	105	211	
95	03/31/2021 09:43 AM	Faculty Memorial Hall (FMH)	314	Surface of Row 4, Seat 5	70	105	211	
96	03/31/2021 09:44 AM	Faculty Memorial Hall (FMH)	314	Surface of Row 4, Seat 7	62	105	211	
97	03/31/2021 09:44 AM	Faculty Memorial Hall (FMH)	314	Surface of Row 4, Seat 9	49	105	211	
98	03/31/2021 09:45 AM	Faculty Memorial Hall (FMH)	314	Surface of Row 4, Seat 11	49	105	211	
99	03/31/2021 09:55 AM	Tiernan Hall	114	Surface of Row 1, Seat 1	17	105	211	
100	03/31/2021 09:56 AM	Tiernan Hall	114	Surface of Row 1, Seat 2	63	105	211	
101	03/31/2021 09:56 AM	Tiernan Hall	114	Surface of Row 1, Seat 3*	227	105	211	SARS-CoV-2 sample collected.
102	03/31/2021 09:57 AM	Tiernan Hall	114	Surface of Row 1, Seat 4	37	105	211	
103	03/31/2021 09:57 AM	Tiernan Hall	114	Surface of Row 1, Seat 5	57	105	211	
104	03/31/2021 09:58 AM	Tiernan Hall	114	Surface of Row 3, Seat 1	67	105	211	
105	03/31/2021 09:58 AM	Tiernan Hall	114	Surface of Row 3, Seat 2	8	105	211	
106	03/31/2021 09:59 AM	Tiernan Hall	114	Surface of Row 3, Seat 3	18	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
107	03/31/2021 09:59 AM	Tiernan Hall	114	Surface of Row 3, Seat 4	65	105	211	
108	03/31/2021 10:00 AM	Tiernan Hall	114	Surface of Row 5, Seat 4	67	105	211	
109	03/31/2021 10:23 AM	Kupfrian Hall	208	Surface of Row 1, Seat 1	18	105	211	
110	03/31/2021 10:23 AM	Kupfrian Hall	208	Surface of Row 1, Seat 3	52	105	211	
111	03/31/2021 10:24 AM	Kupfrian Hall	208	Surface of Row 1, Seat 4	44	105	211	
112	03/31/2021 10:25 AM	Kupfrian Hall	208	Surface of Row 1, Seat 6	86	105	211	
113	03/31/2021 10:25 AM	Kupfrian Hall	208	Surface of Row 1, Seat 7	36	105	211	
114	03/31/2021 10:26 AM	Kupfrian Hall	208	Surface of Row 1, Seat 9	11	105	211	
115	03/31/2021 10:26 AM	Kupfrian Hall	208	Surface of Row 2, Seat 1	18	105	211	
116	03/31/2021 10:27 AM	Kupfrian Hall	208	Surface of Row 2, Seat 3	24	105	211	
117	03/31/2021 10:27 AM	Kupfrian Hall	208	Surface of Row 2, Seat 4	21	105	211	
118	03/31/2021 10:28 AM	Kupfrian Hall	208	Surface of Row 2, Seat 6	19	105	211	
119	03/31/2021 10:28 AM	Kupfrian Hall	208	Surface of Row 2, Seat 7	10	105	211	
120	03/31/2021 10:29 AM	Kupfrian Hall	208	Surface of Row 2, Seat 9	10	105	211	
121	03/31/2021 10:29 AM	Kupfrian Hall	208	Surface of Row 3, Seat 1	36	105	211	
122	03/31/2021 10:30 AM	Kupfrian Hall	208	Surface of Row 3, Seat 3	7	105	211	
123	03/31/2021 10:31 AM	Kupfrian Hall	208	Surface of Row 3, Seat 4	13	105	211	
124	03/31/2021 10:31 AM	Kupfrian Hall	208	Surface of Row 3, Seat 6	8	105	211	
125	03/31/2021 10:32 AM	Kupfrian Hall	208	Surface of Row 3, Seat 7	5	105	211	

Page 14 of 29 Coronavirus-19 Verification Testing Report {Omega Project #: 21-1040} Omega Environmental Services, Inc. 280 Huyler Street - South Hackensack, NJ 07606 - Tel: (201) 489-8700 - Fax: (201) 342-5412

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
126	03/31/2021 10:32 AM	Kupfrian Hall	208	Surface of Row 3, Seat 9	8	105	211	
127	03/31/2021 10:47 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Surface of Treadmill 2, Interface	63	105	211	Pre-cleaning sample.
128	03/31/2021 10:47 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Surface of Chin-Up Machine, Handle		105	211	Pre-cleaning sample.
129	03/31/2021 10:48 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Surface of Central Jungle Gym Dip Handle*	337	105	211	Pre-cleaning sample.
130	03/31/2021 10:50 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Surface of Shoulder Press, Bench 161 105 2		211	Pre-cleaning sample.	
131	03/31/2021 10:51 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Surface of 20lb Fixed Jagged Bar*	248	105	211	Pre-cleaning sample.
132	03/31/2021 10:51 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Surface of Life Fitness Power Mill 1, Interface	32	105	211	Pre-cleaning sample.
133	03/31/2021 10:52 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Surface of Row Machine, Handle	102	105	211	Pre-cleaning sample.
134	03/31/2021 10:53 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Surface of Life Fitness Smith Machine 3, Bar	84	105	211	Pre-cleaning sample.
135	03/31/2021 10:53 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Surface of Door Push Bar to Hallway*	728	105	211	Pre-cleaning sample. Fitness Center side of the door.
136	03/31/2021 10:54 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Surface of Door Handle to Fitness Center*	610	105	211	Pre-cleaning sample. Hallway side of the door.

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
137	03/31/2021 11:01 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Surface of Central Jungle Gym Dip Handle	7	105	211	Test No. 129 post- cleaning sample.
138	03/31/2021 11:02 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Surface of 20lb Fixed Jagged Bar	42	105	211	Test No. 131 post- cleaning sample.
139	03/31/2021 11:02 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center	Surface of Door Push Bar to Hallway	82	105	211	Test No. 135 post- cleaning sample.
140	03/31/2021 11:03 AM	Wellness Entertainment Center (WEC)	2 nd Floor Fitness Center			105	211	Test No. 136 post- cleaning sample.
141	03/31/2021 01:14 PM	Central King Building (CKB)	Ground Floor Study Area	Surface of Round Table 1	50	105	211	
142	03/31/2021 01:14 PM	Central King Building (CKB)	Ground Floor Study Area	Surface of Round Table 2	37	105	211	
143	03/31/2021 01:15 PM	Central King Building (CKB)	Ground Floor Study Area	Surface of Round Table 3	56	105	211	
144	03/31/2021 01:15 PM	Central King Building (CKB)	Ground Floor Study Area	Surface of Round Table 4*	226	105	211	SARS-CoV-2 sample collected.
145	03/31/2021 01:16 PM	Central King Building (CKB)	Ground Floor Study Area	Surface of Round Table 5	35	105	211	
146	03/31/2021 01:17 PM	Central King Building (CKB)	Ground Floor Study Area	Surface of Round Table 6	21	105	211	
147	03/31/2021 01:17 PM	Central King Building (CKB)	Ground Floor Study Area	Surface of Round Table 7	97	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
148	03/31/2021 01:18 PM	Central King Building (CKB)	Ground Floor Study Area	Surface of Table 1, Seat 3	59	105	211	
149	03/31/2021 01:18 PM	Central King Building (CKB)	Ground Floor Study Area	Surface of Table 2, Seat 4	63	105	211	
150	03/31/2021 01:33 PM	Mechanical Engineering Center (MEC)	221	Surface of Row 1, Seat 1	65	105	211	
151	03/31/2021 01:34 PM	Mechanical Engineering Center (MEC)	221	Surface of Row 1, Seat 3	51	105	211	
152	03/31/2021 01:35 PM	Mechanical Engineering Center (MEC)	221	Surface of Row 1, Seat 7	17	105	211	
153	03/31/2021 01:35 PM	Mechanical Engineering Center (MEC)	221	Surface of Row 3, Seat 2	87	105	211	
154	03/31/2021 01:36 PM	Mechanical Engineering Center (MEC)	221	Surface of Row 3, Seat 4	115	105	211	
155	03/31/2021 01:37 PM	Mechanical Engineering Center (MEC)	221	Surface of Row 3, Seat 10	24	105	211	
156	03/31/2021 01:37 PM	Mechanical Engineering Center (MEC)	221	Surface of Row 5, Seat 5	62	105	211	
157	03/31/2021 01:38 PM	Mechanical Engineering Center (MEC)	221	Surface of Row 5, Seat 7	25	105	211	
158	03/31/2021 01:38 PM	Mechanical Engineering Center (MEC)	221	Surface of Row 5, Seat 11	75	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Notes Limit
159	03/31/2021 01:58 PM	GITC	1400	Surface of Row 1, Seat 1	16	105	211
160	03/31/2021 01:59 PM	GITC	1400	Surface of Row 1, Seat 5	5	105	211
161	03/31/2021 01:59 PM	GITC	1400	Surface of Row 1, Seat 10	3	105	211
162	03/31/2021 02:00 PM	GITC	1400	Surface of Row 2, Seat 2	3	105	211
163	03/31/2021 02:00 PM	GITC	1400	Surface of Row 2, Seat 7	32	105	211
164	03/31/2021 02:01 PM	GITC	1400	Surface of Row 2, Seat 11	6	105	211
165	03/31/2021 02:01 PM	GITC	1400	Surface of Row 4, Seat 5	16	105	211
166	03/31/2021 02:01 PM	GITC	1400	Surface of Row 4, Seat 8	6	105	211
167	03/31/2021 02:02 PM	GITC	1400	Surface of Row 4, Seat 14	4	105	211
168	03/31/2021 02:02 PM	GITC	1400	Surface of Row 6, Seat 1	2	105	211
169	03/31/2021 02:03 PM	GITC	1400	Surface of Row 6, Seat 5	3	105	211
170	03/31/2021 02:03 PM	GITC	1400	Surface of Row 6, Seat 11	1	105	211

Field Notes

- Row A or 1 is the row closest to the Instructor.
- Seat numbering starts on the left side of the room, from the perspective of the Instructor.
- All directions and labels are from the perspective of the Instructor, looking towards the seats.
- Only surfaces with elevated or critical pre-cleaning ATP concentrations were tested postcleaning.

Data Interpretation:

- 23-out-of-170 representative ATP surface samples collected reported elevated ATP levels (13.5% of samples). 4-out-of the 23 samples with elevated ATP levels were pre-cleaning samples. Meaning they were collected before the area was cleaned by NJIT building services.
- In the Wellness Entertainment Center, the average pre-cleaning ATP concentration with 248 RLU, with 40% of the samples indicating elevated ATP levels. The average post-cleaning ATP concentration with 35 RLU, representing an 86% reduction in ATP concentrations.

Sample No.	SARS-CoV-2 Swab Sample Locations	Result (Positive/Negative)
1	Honors College Residential Hall, 3 rd Floor "Up" Elevator Call Button, Down	Negative
2	Honors College Residential Hall, 6th Floor "Up" Elevator Call Button, Down	Negative
3	Laurel Residential Hall, 4th Floor Elevator Call Button, Down	Negative
4	Laurel Residential Hall, 5th Floor Elevator Call Button, Down	Negative
5	Laurel (Extension) Residential Hall, 6th Floor Elevator Call Button, Down	Negative
6	Oak Residential Hall, 3 rd Floor Elevator Call Button, Down	Negative
7	Oak Residential Hall, 4th Floor Elevator Call Button, Down	Negative
8	Oak Residential Hall, 5th Floor Elevator Call Button, Down	Negative
9	Oak Residential Hall, 6th Floor Elevator Call Button, Down	Negative
10	Campus Center, 1st Floor Sitting Area, Drink Vending Machine, Keypad	Negative
11	Campus Center, 1 st Floor Sitting Area, Amazon Locker, Keypad	Negative
12	Campus Center, 1 st Floor Sitting Area, Surface of Table 2	Negative
13	Campus Center, 1st Floor Sitting Area, Surface of Table 6, Seat 2	Negative
14	Cypress Residential Hall, 2 nd Floor Elevator Call Button, Down	Negative
15	Cypress Residential Hall, 3 rd Floor Elevator Call Button, Down	Negative
16	Cypress Residential Hall, 7th Floor Elevator Call Button, Down	Negative
17	Tiernan Hall, Room 114, Surface of Row 1, Seat 3	Negative
18	Central King Building (CKB), Ground Floor Study Area (Across from Tutoring Center) , Surface of Round Table 4	Negative

Surface SARS-CoV-2 Swab Data: 3/30 - 3/31/2021

SARS-CoV-2 Air Sample Data: 3/30 - 3/31/2021

Sample No.	SARS-CoV-2 Air Sample Locations	Result (Positive/Negative)
1	Honors College Residential Hall, 1st Floor Lobby	Negative
2	Laurel Residential Hall, Vestibule	Negative
3	Laurel (Extension) Residential Hall, 1st Floor Hallway, Next to the Elevator	Negative
4	Oak Residential Hall, Vestibule	Negative
5	Cypress Residential Hall, 1 st Floor Lobby	Negative
6	Redwood Residential Hall, 1st Floor Lobby	Negative
7	Wellness Entertainment Center (WEC), 2 nd Floor Fitness Center	Negative
8	Campus Center, 1 st Floor Sitting Area	Negative
9	Life Sciences & Engineering Center (LSEC), 1 st Floor Sitting Area (Room 102)	Negative
10	Faculty Memorial Hall (FMH) Room 314	Negative
11	Tiernan Hall, Room 114	Negative
12	Kupfrian Hall, Room 103	Negative
13	Central King Building (CKB), Ground Floor Study Lounge (Across from Tutoring Center)	Negative
14	Cullimore Hall, Room 110	Negative
15	Mechanical Engineering Center (MEC), Room 221	Negative
16	Guttenberg Information Technologies Center (GITC), Room 1400	Negative

Data Interpretation:

• Laboratory results indicate all the SARS-CoV-2 air samples collected on 3/30 and 3/31/2021 were negative.

Attachments:

Laboratory analysis reports with chain-of-custody

Analytical Test Report

Client: Omega Environmental Services, Inc., 280 Huyler Street, South Hackensack, NJ 07606 Client Project/Name: 21-1040 Sample date: 3-30-2021 Submittal date: 3-30-2021 Sample received: 3-31-2021 Samples submitted by: Ross Hernandez Date analysis completed: April 1, 2021 Prestige Report number: 210331-03

RT-PCR 2019-nCoV:

Presence/Non-Detected Analysis of Air samples for SARS-CoV-2 Genetic Markers

Prestige # Client sample ID Location	2019-nCoV (N1 Protein)	Cycle Threshold (Ct) Value ³ (N1 Protein)	2019-nCoV (N2 Protein)	Cycle Threshold Value ³ (N2 Protein)	Presence/ Non- Detected
210331-03-017 01 Honors College Hall, 1 st Floor Lobby	ND	ND	ND	ND	Non-Detected
210331-03-018 02 Laurel Hall, Vestibule	ND	ND	ND	ND	Non-Detected
210331-03-019 03 Laurel (Ext) Hall, 1 st Floor Hallway, Near the Elevator	ND	ND	ND	ND	Non-Detected
210331-03-020 04 Oak Hall, Vestibule	ND	ND	ND	ND	Non-Detected
210331-03-021 05 Cypress Hall, 1 st Floor Lobby	ND	ND	ND	ND	Non-Detected
210331-03-022 06 Redwood Hall, 1 st Floor Lobby	ND	ND	ND	ND	Non-Detected
210331-03-023 07 WEC, 2 nd Floor Fitness Center	ND	ND	ND	ND	Non-Detected
210331-03-024 08 Campus Center, 1 st Floor Sitting Area	ND	ND	ND	ND	Non-Detected

RT-PCR 2019-nCoV:

Presence/Non-detection Analysis of Swab samples for the SARS-CoV-2 Genetic Markers

		b samples for the	571105 207 20		
Prestige #	2019-nCoV	Cycle Threshold	2019-nCoV	Cycle Threshold	Presence/ Non-
Client sample ID	(N1 Protein)	(Ct) Value ³	(N2 Protein)	Value ³	Detected
Location	((N1 Protein)	((N2 Protein)	
210331-03-025					
01					
Honors College Hall, 3 rd	ND	ND	ND	ND	Non-Detected
Floor	ND	ND	ND	ND	Non-Delected
"Up" Elevator Call Button,					
Down					
210331-03-026					
02					
Honors College Hall, 6 th					
Floor	ND	ND	ND	ND	Non-Detected
"Down" Elevator Call	112	112	1.2	112	
Button,					
Down					
210331-03-027					
03					
Laurel Hall, 4 th Floor	ND	ND	ND	ND	New Detected
-	ND	ND	ND	ND	Non-Detected
Elevator					
Call Button, Down					
210331-03-028					
04					
Laurel Hall, 5 th Floor	ND	ND	ND	ND	Non-Detected
Elevator					
Call Button, Down					
210331-03-029					
05	ND	ND	ND	ND	New Detected
Laurel (Ext) Hall, 6 th Floor	ND	ND	ND	ND	Non-Detected
Elevator Call Button, Down					
210331-03-030					
06					
Oak Hall, 3 rd Floor Elevator	ND	ND	ND	ND	Non-Detected
Call Button, Down					
210331-03-031					
07					
Oak Hall, 4 th Floor Elevator	ND	ND	ND	ND	Non-Detected
-					
Call Button, Down					
210331-03-032					
08	ND	ND	ND	ND	Non-Detected
Oak Hall, 5 th Floor Elevator					
Call Button, Down					
210331-03-033					
09	ND	ND	ND	ND	Non-Detected
Oak Hall, 6 th Floor Elevator					
Call Button, Down					

242 Terrace Boulevard, Suite B-1, Voorhees, New Jersey 08043 Tel: 856-767-8300 www.Prestige-EM.com Page 24 of 29

210331-03-034 10 Campus Center, 1 st Floor Sitting Area, Drink Vending Machine, Keyboard	ND	ND	ND	ND	Non-Detected
210331-03-035 11 Campus Center, 1 st Floor Sitting Area, Amazon Locker, Keyboard	ND	ND	ND	ND	Non-Detected
210331-03-036 12 Campus Center, 1 st Floor Sitting Area, Surface of Table 2	ND	ND	ND	ND	Non-Detected
210331-03-037 13 Campus Center, 1 st Floor Sitting Area, Surface of Table 6, Seat 2	ND	ND	ND	ND	Non-Detected
210331-03-038 14 Cypress Hall, 2 nd Floor Elevator Call Button, Down	ND	ND	ND	ND	Non-Detected
210331-03-039 15 Cypress Hall, 3 rd Floor Elevator Call Button, Down	ND	ND	ND	ND	Non-Detected
210331-03-040 16 Cypress Hall, 7 th Floor Elevator Call Button, Down	ND	ND	ND	ND	Non-Detected

resa ñ

Report approved:

Theresa Lehman, MPH, Lab Director

Technical Manager:

Chin S Yang, Ph.D.

Analyst: Ching-Yi Tsai, Ph.D.

The samples in this report were received in good, acceptable conditions. Results relate only to the items tested. 1. The primers and probes in 2019-nCoV CDC EUA Kit are designed for the detection of the two SARS-CoV-2

genes that encode for the N1 and N2 proteins. The kit is manufactured and supplied by Integrated DNA Technologies and approved by the U.S. Centers for Disease Control and Prevention (CDC). Three controls, two positive controls for N proteins and one internal control for the RNA extraction process, are simultaneously run with the samples.

242 Terrace Boulevard, Suite B-1, Voorhees, New Jersey 08043 Tel: 856-767-8300 www.Prestige-EM.com Page 25 of 29

2. Cycle Threshold Value refers to the number of cycles required for the fluorescent signal to cross the detectable threshold in Reverse Transcriptase Polymerase Chain Reaction (RT-PCR); a lower cycle threshold value indicates a higher viral load. 4. ND = not detected, no genetic marker is detected within 40 PCR cycles. NA = not applicable. The detection limit is 10 copies/reaction.

5. Sampling reference: Rahmani, A. R., M. Leili, G. Azarian, A. Poormohammadi. 2020. Sampling and detection of corona viruses in air: A mini review. Science of the Total Environment.

https://doi.org/10.1016/j.scitotenv.2020.140207

Prestige EnviroMicrobiology, Inc.

Analytical Test Report

Client: Omega Environmental Services, Inc., 280 Huyler Street, South Hackensack, NJ 07606

Client Project/Name: 21-1040

Sample date: 3-31-2021

Submittal date: 3-31-2021

Sample received: 4-1-2021

Samples submitted by: Ross Hernandez

Date analysis completed: April 2, 2021

Prestige Report number: 210401-02

RT-PCR 2019-nCoV:

Presence/Non-Detected Analysis of Air samples for SARS-CoV-2 Genetic Markers

Prestige # Client sample ID Location	2019-nCoV (N1 Protein)	Cycle Threshold (Ct) Value ³ (N1 Protein)	2019-nCoV (N2 Protein)	Cycle Threshold Value ³ (N2 Protein)	Presence/ Non- Detected
210401-02-006 09 LSEC, Ground Floor Sitting Area, Room 102	ND	ND	ND	ND	Non-Detected
210401-02-007 10 FMH, Room 314	ND	ND	ND	ND	Non-Detected
210401-02-008 11 Tiernan Hall, Room 114	ND	ND	ND	ND	Non-Detected
210401-02-009 12 Kupfrian Hall, Room 103	ND	ND	ND	ND	Non-Detected
210401-02-010 13 CKB, Ground Floor Study Area, Next to Tutoring Center	ND	ND	ND	ND	Non-Detected
210401-02-011 14 Cullimore Hall, Room 110	ND	ND	ND	ND	Non-Detected
210401-02-012 15 MEC, Room 221	ND	ND	ND	ND	Non-Detected

210401-02-013					
16	ND	ND	ND	ND	Non-Detected
GITC, Room 1400					

242 Terrace Boulevard, Suite B-1, Voorhees, New Jersey 08043 Tel: 856-767-8300 www.Prestige-EM.com Page 1 of 2

Prestige EnviroMicrobiology, Inc.

RT-PCR 2019-nCoV:

Presence/Non-detection Analysis of Swab samples for the SARS-CoV-2 Genetic Markers

Prestige # Client sample ID Location	2019-nCoV (N1 Protein)	Cycle Threshold (Ct) Value ³ (N1 Protein)	2019-nCoV (N2 Protein)	Cycle Threshold Value ³ (N2 Protein)	Presence/ Non- Detected
210402-02-014 17 Tiernan Hall, Room 114, Surface of Row 1, Seat 3	ND	ND	ND	ND	Non-Detected
210402-02-015 18 CKB, Ground Floor Study Area, Surface of Round Table 4	ND	ND	ND	ND	Non-Detected

resa Ihman

Report approved:

Theresa Lehman, MPH, Lab Director

Technical Manager:

Chin S Yang, Ph.D.

Analyst: Ching-Yi Tsai, Ph.D.

1. The samples in this report were received in good, acceptable conditions. Results relate only to the items tested.

2. The primers and probes in 2019-nCoV CDC EUA Kit are designed for the detection of the two SARS-CoV-2 genes that encode for the N1 and N2 proteins. The kit is manufactured and supplied by Integrated DNA Technologies and approved by the U.S. Centers for Disease Control and Prevention (CDC). Three controls, two

242 Terrace Boulevard, Suite B-1, Voorhees, New Jersey 08043 Tel: 856-767-8300 www.Prestige-EM.com Page 28 of 29

positive controls for N proteins and one internal control for the RNA extraction process, are simultaneously run with the samples.

3. Cycle Threshold Value refers to the number of cycles required for the fluorescent signal to cross the detectable threshold in Reverse Transcriptase Polymerase Chain Reaction (RT-PCR); a lower cycle threshold value indicates a higher viral load. 4. ND = not detected, no genetic marker is detected within 40 PCR cycles. NA = not applicable. The detection limit is 10 copies/reaction.

5. Sampling reference: Rahmani, A. R., M. Leili, G. Azarian, A. Poormohammadi. 2020. Sampling and detection of corona viruses in air: A mini review. Science of the Total Environment. https://doi.org/10.1016/j.scitotenv.2020.140207

242 Terrace Boulevard, Suite B-1, Voorhees, New Jersey 08043 Tel: 856-767-8300 www.Prestige-EM.com Page 2 of 2