



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: 12/08/20-12/09/2020

DATE OF REPORT: 12/11/2020

REPORT PREPARED BY: Ross Hernandez

REPORT REVIEWED BY: Veronica Kero P.E., CIH

{Omega Project#: 20-1175}

Table of Contents

<u>Executive Summary</u>	3
<u>Project Overview</u>	3
<ul style="list-style-type: none">• Project Overview/Scope of Work• Bio-Load and COVID-19 Field Sampling & Analysis Protocol	
<u>ATP Direct Read: Bioluminescence</u>	4
<ul style="list-style-type: none">• ATP Direct Read Meter Data• Data Interpretation• Field Notes	
<u>COVID-19 PCR DNA Sequencing</u>	13
<ul style="list-style-type: none">• SARS-CoV-2 PCR DNA Swab Sample Results• SARS-CoV-2 PCR DNA Air Sample Results• Data Interpretation	
<u>Attachments</u>	16
<ul style="list-style-type: none">• Laboratory analysis reports with chain-of-custody	

Executive Summary:

On 12/08/2020 and 12/09/2020, Omega Environmental Services conducted ATP surface testing and SARS-CoV-2 environmental sampling in The Life Science, Engineering Center (LSEC), Campus Center, Houten Library, Weston Hall, Central King Building (CKB), Kupfrian Hall, Cypress Residential Hall, Laurel Residential Hall, and Redwood Residential Hall of the NJIT campus. 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)	<ul style="list-style-type: none">• Excluding the pre-cleaning samples, 31-out-of-201 representative ATP surface samples collected reported elevated ATP levels (15.4% of samples).• Omega Environmental Services collected SARS-CoV-2 surface samples on 30-out-of-31 representative surfaces with elevated ATP levels, that were not recleaned by NJIT Building Services.
Coronavirus-19 PCR Samples	<ul style="list-style-type: none">• Laboratory results indicate all the SARS-CoV-2 samples collected on 12/08/20 and 12/09/20 were negative.

Bio-Load and COVID-19 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	12/08/2020 08:30 AM	LSEC	102	Surface of Table 2	104	105	211	
2	12/08/2020 08:31 AM	LSEC	102	Surface of Table 3	19	105	211	
3	12/08/2020 08:32 AM	LSEC	102	Surface of Table 4	56	105	211	
4	12/08/2020 08:32 AM	LSEC	102	Surface of Table 5	17	105	211	
5	12/08/2020 08:33 AM	LSEC	102	Surface of Table 6	123	105	211	
6	12/08/2020 08:33 AM	LSEC	102	Surface of Table 7	10	105	211	
7	12/08/2020 08:34 AM	LSEC	102	Surface of Table 8	16	105	211	
8	12/08/2020 08:35 AM	LSEC	102	Surface of Table 9	57	105	211	
9	12/08/2020 08:35 AM	LSEC	102	Surface of Table 10	74	105	211	
10	12/08/2020 08:36 AM	LSEC	102	Surface of Table 11	23	105	211	
11	12/08/2020 08:36 AM	LSEC	102	Surface of Table 12	21	105	211	
12	12/08/2020 08:37 AM	LSEC	102	Surface of Table 13	18	105	211	
13	12/08/2020 08:37 AM	LSEC	102	Surface of Table 14	16	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
14	12/08/2020 09:11 AM	Campus Center	1 st Floor Sitting Area	Surface of ATM, Keypad	53	105	211	
15	12/08/2020 09:11 AM	Campus Center	1 st Floor Sitting Area	Surface of Snack Vending Machine, Touch Screen	88	105	211	
16	12/08/2020 09:12 AM	Campus Center	1 st Floor Sitting Area	Surface of Drink Vending Machine, Keypad*	1,031	105	211	SARS-CoV-2 sample collected.
17	12/08/2020 09:14 AM	Campus Center	1 st Floor Sitting Area	Surface of Amazon Locker, Touch Screen	26	105	211	
18	12/08/2020 09:15 AM	Campus Center	1 st Floor Sitting Area	Surface of Table 1	77	105	211	
19	12/08/2020 09:15 AM	Campus Center	1 st Floor Sitting Area	Surface of Table 3, Seat 2	127	105	211	
20	12/08/2020 09:16 AM	Campus Center	1 st Floor Sitting Area	Surface of Table 3, Seat 4*	1,027	105	211	SARS-CoV-2 sample collected.
21	12/08/2020 09:16 AM	Campus Center	1 st Floor Sitting Area	Surface of Table 4, Seat 2*	282	105	211	SARS-CoV-2 sample collected.
22	12/08/2020 09:17 AM	Campus Center	1 st Floor Sitting Area	Surface of Table 4, Seat 4*	1,067	105	211	SARS-CoV-2 sample collected.
23	12/08/2020 09:18 AM	Campus Center	1 st Floor Sitting Area	Surface of Table 5, Seat 2	7	105	211	
24	12/08/2020 09:18 AM	Campus Center	1 st Floor Sitting Area	Surface of Table 5, Seat 4	203	105	211	
25	12/08/2020 09:19 AM	Campus Center	1 st Floor Sitting Area	Surface of Table 6, Seat 2*	267	105	211	SARS-CoV-2 sample collected.

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
26	12/08/2020 09:20 AM	Campus Center	1 st Floor Sitting Area	Surface of Table 7, Seat 2	161	105	211	
27	12/08/2020 09:20 AM	Campus Center	1 st Floor Sitting Area	Surface of Door Handle to Senate Office, Room 110C	24	105	211	Lobby side of the door. SARS-CoV-2 sample collected.
28	12/08/2020 09:21 AM	Campus Center	1 st Floor Sitting Area	Surface of Door Handle to GSA Office, Room 110A*	257	105	211	Lobby side of the door. SARS-CoV-2 sample collected.
29	12/08/2020 10:00 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-001, Keyboard	32	105	211	
30	12/08/2020 10:00 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-005, Mouse	34	105	211	
31	12/08/2020 10:01 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-007, Keyboard	4	105	211	
32	12/08/2020 10:01 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-009, Mouse	6	105	211	
33	12/08/2020 10:02 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-012, Keyboard	6	105	211	
34	12/08/2020 10:03 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-014, Mouse	42	105	211	
35	12/08/2020 10:03 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-016, Keyboard	16	105	211	
36	12/08/2020 10:04 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-020, Mouse	23	105	211	
37	12/08/2020 10:05 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-023, Keyboard	38	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
38	12/08/2020 10:05 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-025, Mouse	22	105	211	
39	12/08/2020 10:06 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-027, Keyboard	210	105	211	
40	12/08/2020 10:06 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-029, Mouse	10	105	211	
41	12/08/2020 10:07 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-030, Keyboard	16	105	211	
42	12/08/2020 10:08 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-032, Mouse	10	105	211	
43	12/08/2020 10:08 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-034, Keyboard*	1,240	105	211	SARS-CoV-2 sample collected.
44	12/08/2020 10:09 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-036, Mouse	21	105	211	
45	12/08/2020 10:10 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-039, Keyboard	5	105	211	
46	12/08/2020 10:10 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-041, Mouse	33	105	211	
47	12/08/2020 10:11 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-043, Keyboard	148	105	211	
48	12/08/2020 10:11 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-047, Mouse	27	105	211	
49	12/08/2020 10:12 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-050, Keyboard*	413	105	211	SARS-CoV-2 sample collected.

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
50	12/08/2020 10:13 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-052, Mouse*	733	105	211	SARS-CoV-2 sample collected.
51	12/08/2020 10:14 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-054, Keyboard	37	105	211	
52	12/08/2020 10:14 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-056, Mouse	70	105	211	
53	12/08/2020 10:15 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-060, Keyboard	51	105	211	
54	12/08/2020 10:16 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-063, Mouse*	810	105	211	SARS-CoV-2 sample collected.
55	12/08/2020 10:16 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-065, Keyboard	14	105	211	
56	12/08/2020 10:17 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-068, Mouse	75	105	211	
57	12/08/2020 10:18 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-070, Mouse	36	105	211	
58	12/08/2020 10:18 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-072, Keyboard	95	105	211	
59	12/08/2020 10:19 AM	Houten Library	1 st Floor Sitting Area	Computer CA-1047-074, Mouse	17	105	211	
60	12/08/2020 12:05 PM	Weston Hall	4 th Floor Library	Surface of Printer 1, Start Button	23	105	211	
61	12/08/2020 12:05 PM	Weston Hall	4 th Floor Library	Surface of Table 3, Seat 1	0	105	211	
62	12/08/2020 12:06 PM	Weston Hall	4 th Floor Library	Surface of Table 4	0	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
63	12/08/2020 12:06 PM	Weston Hall	4 th Floor Library	Surface of Table 5, Seat 1	0	105	211	
64	12/08/2020 12:07 PM	Weston Hall	4 th Floor Library	Surface of Table 6, Seat 1	0	105	211	
65	12/08/2020 12:07 PM	Weston Hall	4 th Floor Library	Surface of Table 7, Seat 2	0	105	211	
66	12/08/2020 12:08 PM	Weston Hall	4 th Floor Library	Surface of Table 8, Seat 1	0	105	211	
67	12/08/2020 12:08 PM	Weston Hall	4 th Floor Library	Surface of Table 9, Seat 2	1	105	211	
68	12/08/2020 12:09 PM	Weston Hall	4 th Floor Library	Surface of Table 10, Seat 3	0	105	211	
69	12/08/2020 12:09 PM	Weston Hall	4 th Floor Library	Surface of Table 11, Seat 1	0	105	211	
70	12/08/2020 12:10 PM	Weston Hall	4 th Floor Library	Surface of Table 12, Seat 3	1	105	211	
71	12/08/2020 12:10 PM	Weston Hall	4 th Floor Library	Surface of Table 13, Seat 4	1	105	211	
72	12/08/2020 12:11 PM	Weston Hall	4 th Floor Library	Surface of Table 14, Seat 1	1	105	211	
73	12/08/2020 12:11 PM	Weston Hall	4 th Floor Library	Surface of Table 15, Seat 1	1	105	211	
74	12/08/2020 12:12 PM	Weston Hall	4 th Floor Library	Surface of Table 17, Seat 1	1	105	211	
75	12/08/2020 12:12 PM	Weston Hall	4 th Floor Library	Surface of Table 20, Seat 1	1	105	211	The bench along the window.
76	12/08/2020 12:13 PM	Weston Hall	4 th Floor Library	Surface of Table 21, Seat 3	11	105	211	The bench along the window.
77	12/08/2020 12:13 PM	Weston Hall	4 th Floor Library	Surface of Oval Table, Seat 4	13	105	211	
78	12/08/2020 12:14 PM	Weston Hall	4 th Floor Library	Surface of Oval Table, Seat 8	3	105	211	
79	12/08/2020 02:05 PM	Central King Building (CKB)	3 rd Floor Lounge	Surface of Window Bench, Seat 1*	276	105	211	SARS-CoV-2 sample collected.

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
80	12/08/2020 02:06 PM	Central King Building (CKB)	3 rd Floor Lounge	Surface of Window Bench, Seat 3	45	105	211	
81	12/08/2020 02:06 PM	Central King Building (CKB)	3 rd Floor Lounge	Surface of Window Bench, Seat 5	12	105	211	
82	12/08/2020 02:07 PM	Central King Building (CKB)	3 rd Floor Lounge	Surface of Table 1, Seat 1	0	105	211	
83	12/08/2020 02:09 PM	Central King Building (CKB)	3 rd Floor Lounge	Surface of Table 1, Seat 2	2	105	211	
84	12/08/2020 02:10 PM	Central King Building (CKB)	3 rd Floor Lounge	Surface of Table 2, Seat 1	13	105	211	
85	12/08/2020 02:11 PM	Central King Building (CKB)	3 rd Floor Lounge	Surface of Table 2, Seat 2	187	105	211	
86	12/08/2020 02:11 PM	Central King Building (CKB)	3 rd Floor Lounge	Surface of Table 3	23	105	211	
87	12/08/2020 02:12 PM	Central King Building (CKB)	3 rd Floor Lounge	Surface of Table 4	3	105	211	
88	12/08/2020 03:04 PM	Kupfrian Hall	Basement Sitting Area	Surface of Table 1	24	105	211	
89	12/08/2020 03:05 PM	Kupfrian Hall	Basement Sitting Area	Surface of Table 2	40	105	211	
90	12/08/2020 03:05 PM	Kupfrian Hall	Basement Sitting Area	Surface of Table 3	10	105	211	
91	12/08/2020 03:05 PM	Kupfrian Hall	Basement Sitting Area	Surface of Table 5	88	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
92	12/08/2020 03:06 PM	Kupfrian Hall	Basement Sitting Area	Surface of Table 6	0	105	211	
93	12/08/2020 03:07 PM	Kupfrian Hall	Basement Sitting Area	Surface of Table 7	0	105	211	
94	12/08/2020 03:07 PM	Kupfrian Hall	Basement Sitting Area	Surface of Table 8	0	105	211	
95	12/08/2020 03:08 PM	Kupfrian Hall	Basement Sitting Area	Surface of Table 9	2	105	211	
96	12/08/2020 03:08 PM	Kupfrian Hall	Basement Sitting Area	Surface of Table 10	9	105	211	
97	12/08/2020 03:09 PM	Kupfrian Hall	Basement Sitting Area	Surface of Table 11	3	105	211	
98	12/08/2020 03:09 PM	Kupfrian Hall	Basement Sitting Area	Surface of Table 12	22	105	211	
99	12/08/2020 03:10 PM	Kupfrian Hall	Basement Sitting Area	Surface of Table 13	2	105	211	
100	12/08/2020 03:11 PM	Kupfrian Hall	Basement Sitting Area	Surface of Table 14	7	105	211	
101	12/08/2020 03:11 PM	Kupfrian Hall	Basement Sitting Area	Surface of Table 15	5	105	211	
102	12/08/2020 03:12 PM	Kupfrian Hall	Basement Sitting Area	Surface of Table 16	4	105	211	
103	12/08/2020 03:12 PM	Kupfrian Hall	Basement Sitting Area	Left Vending Machine, Credit Card Payment Button	54	105	211	Closest to the exit.

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
104	12/08/2020 03:13 PM	Kupfrian Hall	Basement Sitting Area	Right Vending Machine, Credit Card Payment Button	186	105	211	Closest to Room 118.
105	12/09/2020 09:26 AM	Cypress Residential Hall	1 st Floor Lobby	Door Handle to Elevators	21	105	211	Lobby side of the door.
106	12/09/2020 09:28 AM	Cypress Residential Hall	1 st Floor Lobby	Door Push Bar to Vestibule	171	105	211	Lobby side of the door.
107	12/09/2020 09:29 AM	Cypress Residential Hall	1 st Floor Kitchen	Surface of Refrigerator Handle*	525	105	211	SARS-CoV-2 sample collected.
108	12/09/2020 09:29 AM	Cypress Residential Hall	1 st Floor Kitchen	Surface of Microwave Handle	38	105	211	
109	12/09/2020 09:30 AM	Cypress Residential Hall	1 st Floor Kitchen	Surface of Faucet Handle	166	105	211	
110	12/09/2020 09:31 AM	Cypress Residential Hall	1 st Floor Common Area	Surface of Table 1	128	105	211	Next to the Kitchen.
111	12/09/2020 09:31 AM	Cypress Residential Hall	1 st Floor Common Area	Surface of Table 2	46	105	211	Next to the Kitchen.
112	12/09/2020 09:32 AM	Cypress Residential Hall	1 st Floor Common Area	Surface of Table 3	68	105	211	Next to the Kitchen.
113	12/09/2020 09:33 AM	Cypress Residential Hall	1 st Floor Common Area	Surface of Table 4	83	105	211	Next to the Kitchen.
114	12/09/2020 09:34 AM	Cypress Residential Hall	1 st Floor Common Area	Surface of Table 5	56	105	211	Next to the Kitchen.
115	12/09/2020 09:34 AM	Cypress Residential Hall	1 st Floor Hallway	1 st Floor Elevator Call Button, Up*	2,205	105	211	SARS-CoV-2 sample collected.

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
116	12/09/2020 09:42 AM	Cypress Residential Hall	2 nd Floor Lounge, Room 223	Surface of Faucet Handle	40	105	211	
117	12/09/2020 09:42 AM	Cypress Residential Hall	2 nd Floor Lounge, Room 223	Surface of Microwave Handle	13	105	211	
118	12/09/2020 09:43 AM	Cypress Residential Hall	2 nd Floor Lounge, Room 223	Table Surface	201	105	211	
119	12/09/2020 09:43 AM	Cypress Residential Hall	2 nd Floor Lounge, Room 219	Surface of Faucet Handle	36	105	211	
120	12/09/2020 09:44 AM	Cypress Residential Hall	2 nd Floor Lounge, Room 223	Surface of Microwave Handle	64	105	211	
121	12/09/2020 09:44 AM	Cypress Residential Hall	2 nd Floor Lounge, Room 219	Table Surface	34	105	211	
122	12/09/2020 09:45 AM	Cypress Residential Hall	2 nd Floor Hallway	2 nd Floor Elevator Call Button, Down*	523	105	211	SARS-CoV-2 sample collected.
123	12/09/2020 09:49 AM	Cypress Residential Hall	3 rd Floor Lounge, Room 323	Surface of Faucet Handle	68	105	211	
124	12/09/2020 09:50 AM	Cypress Residential Hall	3 rd Floor Lounge, Room 323	Surface of Microwave Handle*	265	105	211	SARS-CoV-2 sample collected.
125	12/09/2020 09:50 AM	Cypress Residential Hall	3 rd Floor Lounge, Room 323	Table Surface	197	105	211	
126	12/09/2020 09:51 AM	Cypress Residential Hall	3 rd Floor Lounge, Room 319	Surface of Faucet Handle*	227	105	211	SARS-CoV-2 sample collected.
127	12/09/2020 09:51 AM	Cypress Residential Hall	3 rd Floor Lounge, Room 319	Surface of Microwave Handle	40	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
128	12/09/2020 09:52 AM	Cypress Residential Hall	3 rd Floor Lounge, Room 319	Table Surface	98	105	211	
129	12/09/2020 09:53 AM	Cypress Residential Hall	3 rd Floor Hallway	3 rd Floor Elevator Call Button, Down	76	105	211	
130	12/09/2020 09:58 AM	Cypress Residential Hall	4 th Floor Lounge, Room 423	Surface of Faucet Handle*	960	105	211	SARS-CoV-2 sample collected.
131	12/09/2020 09:59 AM	Cypress Residential Hall	4 th Floor Lounge, Room 423	Surface of Microwave Handle*	391	105	211	SARS-CoV-2 sample collected.
132	12/09/2020 09:59 AM	Cypress Residential Hall	4 th Floor Lounge, Room 423	Table Surface	85	105	211	
133	12/09/2020 10:00 AM	Cypress Residential Hall	4 th Floor Lounge, Room 419	Surface of Faucet Handle	122	105	211	
134	12/09/2020 10:00 AM	Cypress Residential Hall	4 th Floor Lounge, Room 419	Surface of Microwave Handle	34	105	211	
135	12/09/2020 10:01 AM	Cypress Residential Hall	4 th Floor Lounge, Room 419	Table Surface	38	105	211	
136	12/09/2020 10:01 AM	Cypress Residential Hall	4 th Floor Hallway	4 th Floor Elevator Call Button, Down	68	105	211	
137	12/09/2020 10:06 AM	Cypress Residential Hall	5 th Floor Lounge, Room 523	Surface of Faucet Handle*	339	105	211	SARS-CoV-2 sample collected.
138	12/09/2020 10:06 AM	Cypress Residential Hall	5 th Floor Lounge, Room 523	Surface of Microwave Handle*	389	105	211	SARS-CoV-2 sample collected.
139	12/09/2020 10:07 AM	Cypress Residential Hall	5 th Floor Lounge, Room 523	Table Surface*	239	105	211	SARS-CoV-2 sample collected.

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
140	12/09/2020 10:07 AM	Cypress Residential Hall	5 th Floor Lounge, Room 519	Surface of Faucet Handle	33	105	211	
141	12/09/2020 10:08 AM	Cypress Residential Hall	5 th Floor Lounge, Room 519	Surface of Microwave Push Button	49	105	211	
142	12/09/2020 10:08 AM	Cypress Residential Hall	5 th Floor Lounge, Room 519	Table Surface	35	105	211	
143	12/09/2020 10:09 AM	Cypress Residential Hall	5 th Floor Hallway	5 th Floor Elevator Call Button, Down*	230	105	211	SARS-CoV-2 sample collected.
144	12/09/2020 10:14 AM	Cypress Residential Hall	6 th Floor Lounge, Room 623	Surface of Faucet Handle	60	105	211	
145	12/09/2020 10:14 AM	Cypress Residential Hall	6 th Floor Lounge, Room 623	Surface of Microwave Push Button	22	105	211	
146	12/09/2020 10:14 AM	Cypress Residential Hall	6 th Floor Lounge, Room 623	Table Surface	160	105	211	
147	12/09/2020 10:15 AM	Cypress Residential Hall	6 th Floor Lounge, Room 619	Surface of Faucet Handle	14	105	211	
148	12/09/2020 10:15 AM	Cypress Residential Hall	6 th Floor Lounge, Room 619	Surface of Microwave Handle	54	105	211	
149	12/09/2020 10:16 AM	Cypress Residential Hall	6 th Floor Lounge, Room 619	Table Surface	41	105	211	
150	12/09/2020 10:16 AM	Cypress Residential Hall	6 th Floor Hallway	6 th Floor Elevator Call Button, Down	96	105	211	
151	12/09/2020 10:23 AM	Cypress Residential Hall	7 th Floor Lounge, Room 723	Surface of Faucet Handle*	426	105	211	SARS-CoV-2 sample collected.

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
152	12/09/2020 10:23 AM	Cypress Residential Hall	7 th Floor Lounge, Room 723	Surface of Microwave Handle*	2,720	105	211	SARS-CoV-2 sample collected.
153	12/09/2020 10:24 AM	Cypress Residential Hall	7 th Floor Lounge, Room 719	Surface of Faucet Handle	15	105	211	
154	12/09/2020 10:24 AM	Cypress Residential Hall	7 th Floor Lounge, Room 719	Surface of Microwave Handle	48	105	211	
155	12/09/2020 10:25 AM	Cypress Residential Hall	7 th Floor Lounge, Room 719	Table Surface	98	105	211	
156	12/09/2020 10:26 AM	Cypress Residential Hall	7 th Floor Hallway	7 th Floor Elevator Call Button, Down	55	105	211	
157	12/09/2020 10:33 AM	Cypress Residential Hall	8 th Floor Lounge, Room 823	Surface of Faucet Handle*	355	105	211	SARS-CoV-2 sample collected.
158	12/09/2020 10:33 AM	Cypress Residential Hall	8 th Floor Lounge, Room 823	Surface of Microwave Handle	85	105	211	
159	12/09/2020 10:34 AM	Cypress Residential Hall	8 th Floor Lounge, Room 823	Table Surface	192	105	211	
160	12/09/2020 10:34 AM	Cypress Residential Hall	8 th Floor Lounge, Room 819	Surface of Faucet Handle	6	105	211	
161	12/09/2020 10:35 AM	Cypress Residential Hall	8 th Floor Lounge, Room 819	Surface of Microwave Handle	4	105	211	
162	12/09/2020 10:35 AM	Cypress Residential Hall	8 th Floor Lounge, Room 819	Table Surface	106	105	211	
163	12/09/2020 10:36 AM	Cypress Residential Hall	8 th Floor Hallway	8 th Floor Elevator Call Button, Down	76	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
164	12/09/2020 10:56 AM	Laurel Residence Hall	1 st Floor Lobby	Door Handle to Lobby*	637	105	211	Vestibule side of the door. SARS-CoV-2 sample collected.
165	12/09/2020 10:57 AM	Laurel Residence Hall	1 st Floor Lobby	Door Handle to Vestibule	80	105	211	Lobby side of the door.
166	12/09/2020 10:58 AM	Laurel Residence Hall	1 st Floor Lobby	Door Handle to Elevators	134	105	211	Lobby side of the door.
167	12/09/2020 10:59 AM	Laurel Residence Hall	1 st Floor Kitchen	Surface of Faucet Handle	1	105	211	
168	12/09/2020 11:02 AM	Laurel Residence Hall	1 st Floor Kitchen	Surface of Microwave Handle	4	105	211	
169	12/09/2020 11:02 AM	Laurel Residence Hall	1 st Floor Kitchen	Surface of Refrigerator Handle	45	105	211	
170	12/09/2020 11:03 AM	Laurel Residential Hall	1 st Floor Hallway	1 st Floor Elevator Call Button, Up*	339	105	211	SARS-CoV-2 sample collected.
171	12/09/2020 11:03 AM	Laurel Residential Hall	2 nd Floor Hallway	2 nd Floor Elevator Call Button, Down	45	105	211	
172	12/09/2020 11:05 AM	Laurel Residential Hall	3 rd Floor Hallway	3 rd Floor Elevator Call Button, Down	71	105	211	
173	12/09/2020 11:05 AM	Laurel Residential Hall	4 th Floor Hallway	4 th Floor Elevator Call Button, Down	75	105	211	
174	12/09/2020 11:06 AM	Laurel Residential Hall	5 th Floor Hallway	5 th Floor Elevator Call Button, Down	43	105	211	
175	12/09/2020 11:06 AM	Laurel (Extension) Residential Hall	1 st Floor Hallway	1 st Floor Elevator Call Button, Up	11	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
176	12/09/2020 11:07 AM	Laurel (Extension) Residential Hall	2 nd Floor Hallway	2 nd Floor Elevator Call Button, Down	37	105	211	
177	12/09/2020 11:07 AM	Laurel (Extension) Residential Hall	3 rd Floor Hallway	3 rd Floor Elevator Call Button, Down	82	105	211	
178	12/09/2020 11:08 AM	Laurel (Extension) Residential Hall	4 th Floor Hallway	4 th Floor Elevator Call Button, Down	7	105	211	
179	12/09/2020 11:09 AM	Laurel (Extension) Residential Hall	5 th Floor Hallway	5 th Floor Elevator Call Button, Down	71	105	211	
180	12/09/2020 11:09 AM	Laurel (Extension) Residential Hall	6 th Floor Hallway	6 th Floor Elevator Call Button, Down	21	105	211	
181	12/09/2020 11:09 AM	Laurel (Extension) Residential Hall	7 th Floor Hallway	7 th Floor Elevator Call Button, Down	18	105	211	
182	12/09/2020 12:48 PM	Redwood Residential Hall	1 st Floor Lobby	Door Handle to Lobby*	535	105	211	Vestibule side of the door. SARS-CoV-2 sample collected.
183	12/09/2020 12:49 PM	Redwood Residential Hall	1 st Floor Lobby	Door Handle to Elevators*	321	105	211	Lobby side of the door.
184	12/09/2020 12:49 PM	Redwood Residential Hall	1 st Floor Lobby	Door Push Bar to Vestibule	77	105	211	Vestibule side of the door.
185	12/09/2020 12:51 PM	Redwood Residential Hall	1 st Floor Lobby	Surface of Snack Vending Machine, Touch Screen	24	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
186	12/09/2020 12:51 PM	Redwood Residential Hall	1st Floor Lobby	Surface of Drink Vending Machine, Keypad*	703	105	211	SARS-CoV-2 sample collected.
187	12/09/2020 12:52 PM	Redwood Residential Hall	1st Floor Kitchen	Surface of Faucet Handle, Hot Water Knob	8	105	211	
188	12/09/2020 12:53 PM	Redwood Residential Hall	1st Floor Kitchen	Surface of Microwave Handle	5	105	211	
189	12/09/2020 12:53 PM	Redwood Residential Hall	1st Floor Kitchen	Surface of Refrigerator Handle	114	105	211	
190	12/09/2020 12:54 PM	Redwood Residential Hall	1st Floor Hallway	1st Floor Elevator 1 Call Button, Up	51	105	211	
191	12/09/2020 12:55 PM	Redwood Residential Hall	1st Floor Hallway	1st Floor Elevator 2 Call Button, Up	203	105	211	
192	12/09/2020 12:55 PM	Redwood Residential Hall	2nd Floor Hallway	2nd Floor Elevator 1 Call Button, Down	32	105	211	
193	12/09/2020 12:55 PM	Redwood Residential Hall	2nd Floor Hallway	2nd Floor Elevator 2 Call Button, Down	9	105	211	
194	12/09/2020 12:56 PM	Redwood Residential Hall	3rd Floor Hallway	3rd Floor Elevator 1 Call Button, Down	77	105	211	
195	12/09/2020 12:56 PM	Redwood Residential Hall	3rd Floor Hallway	3rd Floor Elevator 1 Call Button, Down	51	105	211	
196	12/09/2020 12:57 PM	Redwood Residential Hall	4th Floor Hallway	4th Floor Elevator 1 Call Button, Down	73	105	211	
197	12/09/2020 12:57 PM	Redwood Residential Hall	4th Floor Hallway	4th Floor Elevator 2 Call Button, Down	77	105	211	

Test No.	Date	Building	Room	Surface	RLU Result	Lower Control Limit	Upper Control Limit	Notes
198	12/09/2020 12:58 PM	Redwood Residential Hall	5 th Floor Hallway	5 th Floor Elevator 1 Call Button, Down*	324	105	211	SARS-CoV-2 sample collected.
199	12/09/2020 12:59 PM	Redwood Residential Hall	5 th Floor Hallway	5 th Floor Elevator 2 Call Button, Down	207	105	211	
200	12/09/2020 12:59 PM	Redwood Residential Hall	6 th Floor Hallway	6 th Floor Elevator 1 Call Button, Down	42	105	211	
201	12/09/2020 01:00 PM	Redwood Residential Hall	6 th Floor Hallway	6 th Floor Elevator 2 Call Button, Down	121	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 post-cleaning.

Data Interpretation:

- Excluding the pre-cleaning samples, 31-out-of-201 representative ATP surface samples collected reported elevated ATP levels (15.4% of samples).
- Omega Environmental Services collected SARS-CoV-2 surface samples on 30-out-of-31 representative surfaces with elevated ATP levels, that were not re-cleaned by NJIT Building Services.

Surface SARS-CoV-2 Swab Data: 12/08 - 12/09/2020

Sample No.	SARS-CoV-2 Swab Sample Locations	Result (Positive/Negative)
1	Campus Center, 1 st Floor Sitting Area, Surface of Drink Vending Machine, Keypad	Negative
2	Campus Center, 1 st Floor Sitting Area, Surface of Table 3, Seat 4	Negative
3	Campus Center, 1 st Floor Sitting Area, Surface of Table 4, Seat 2	Negative
4	Campus Center, 1 st Floor Sitting Area, Surface of Table 4, Seat 4	Negative
5	Campus Center, 1 st Floor Sitting Area, Surface of Table 5, Seat 2	Negative
6	Campus Center, 1 st Floor Sitting Area, Door Handle to GSA Office Room 110A, Lobby Side	Negative
7	Houten Library, Computer CA-1047-034, Keyboard	Negative
8	Houten Library, Computer CA-1047-050, Keyboard	Negative
9	Houten Library, Computer CA-1047-052, Mouse	Negative
10	Houten Library, Computer CA-1047-063, Mouse	Negative
11	Central King Building (CKB), 3 rd Floor Lounge, Surface of Window Bench, Seat 1	Negative
12	Colton Hall, Room 243, Chair Arms Rest	Negative
13	Cypress Residential Hall, 1 st Floor Kitchen, Refrigerator Handle	Negative
14	Cypress Residential Hall, 1 st Floor Hallway, Elevator Call Button, Up	Negative
15	Cypress Residential Hall, Cypress Residential Hall, 2 nd Floor Hallway, Elevator Call Button, Down	Negative
16	Cypress Residential Hall, 3 rd Floor Lounge Room 323, Microwave Handle	Negative
17	Cypress Residential Hall, 3 rd Floor Lounge Room 319, Faucet Handle	Negative
18	Cypress Residential Hall, 4 th Floor Lounge Room 423, Faucet Handle	Negative
19	Cypress Residential Hall, 4 th Floor Lounge Room 423, Microwave Handle	Negative
20	Cypress Residential Hall, 5 th Floor Lounge Room 523, Surface of Faucet Handle	Negative
21	Cypress Residential Hall, 5 th Floor Lounge Room 523, Surface of Microwave Handle	Negative
22	Cypress Residential Hall, 5 th Floor Lounge Room 523, Table Surface	Negative
23	Cypress Residential Hall, 5 th Floor Hallway, Elevator Call Button, Down	Negative
24	Cypress Residential Hall, 7 th Floor Lounge Room 723, Surface of Faucet Handle	Negative
25	Cypress Residential Hall, 7 th Floor Lounge Room 723, Surface of Microwave Handle	Negative
26	Cypress Residential Hall, 8 th Floor Lounge Room 823, Surface of Faucet Handle	Negative
27	Laurel Residential Hall, 1 st Floor Door Handle to Lobby, Vestibule Side	Negative
28	Laurel Residential Hall, 1 st Floor Elevator Call Button, Up	Negative
29	Redwood Residential Hall, 1 st Floor Door Handle to Lobby, Vestibule Side	Negative
30	Redwood Residential Hall, 1 st Floor Lobby, Drink Vending Machine, Keypad	Negative
31	Redwood Residential Hall, 5 th Floor Hallway, Elevator 1 Call Button, Down	Negative

SARS-CoV-2 Air Sample Data: 12/08 - 12/09/20

Sample No.	SARS-CoV-2 Air Sample Locations	Result (Positive/Negative)
1	Life Sciences, Engineering Center, Room 102 (Science Commons)	Negative
2	Campus Center, 1 st Floor Sitting Area	Negative
3	Campus Center, 1 st Floor Sitting Area, Next to Highlander Commons	Negative
4	Houten Library, 1 st Floor Near the Entrance	Negative
5	Weston Hall, 4 th Floor Library	Negative
6	Central King Building (CKB), Basement Sitting Area, Next to Vestibule	Negative
7	Redwood Residential Hall, 1 st Floor Lobby	Negative
8	Cypress Residential Hall, 1 st Floor Lobby	Negative
9	Laurel Residential Hall, 1 st Floor Vestibule	Negative
10	Laurel Residential Hall, 2 nd Floor Hallway, Near the Elevator	Negative
11	Laurel Residential Hall, 3 rd Floor Hallway, Near the Elevator	Negative
12	Laurel Residential Hall, 4 th Floor Hallway, Near the Elevator	Negative
13	Laurel Residential Hall, 5 th Floor Hallway, Near the Elevator	Negative
14	Laurel (Extension) Residential Hall, 1 st Floor Hallway, Near the Elevator	Negative
15	Laurel (Extension) Residential Hall, 2 nd Floor Hallway, Near the Elevator	Negative
16	Laurel (Extension) Residential Hall, 3 rd Floor Hallway, Near the Elevator	Negative
17	Laurel (Extension) Residential Hall, 4 th Floor Hallway, Near the Elevator	Negative
18	Laurel (Extension) Residential Hall, 5 th Floor Hallway, Near the Elevator	Negative
19	Laurel (Extension) Residential Hall, 6 th Floor Hallway, Near the Elevator	Negative
20	Laurel (Extension) Residential Hall, 7 th Floor Hallway, Near the Elevator	Negative

Data Interpretation:

- Laboratory results indicate all the SARS-CoV-2 samples collected on 12/08 and 12/09/2020 were negative.

Attachments:

Laboratory analysis reports with chain-of-custody

Prestige EnviroMicrobiology, Inc.

Analytical Test Report

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

Client Project/Name: 20-1175

Sample date: 12-08-2020

Submittal date: 12-09-2020

Sample received: 12-09-2020

Samples submitted by: Ross Hernandez/Kadeem Hill

Date analysis completed: December 10, 2020

Prestige Report number: 201209-07

RT-PCR 2019-nCoV: Analysis of Air samples for the detection of 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)	Conc. (copies of RNA/L)
201209-07-041 01 LSEC, Ground Fl Sitting Area, Room 102	ND	ND	ND	ND	NA
201209-07-042 02 Campus Center, 1 st Floor Sitting Area	ND	ND	ND	ND	NA
201209-07-043 03 Campus Center, Sitting Area Next to Highlander Commons	ND	ND	ND	ND	NA
201209-07-044 04 Houten Library, 1 st Floor Near the Entrance	ND	ND	ND	ND	NA
201209-07-045 05 Weston Hall, 4 th Floor Library	ND	ND	ND	ND	NA
201209-07-046 06 CKB, Basement Sitting Area, Next to Vestibule	ND	ND	ND	ND	NA

Prestige EnviroMicrobiology, Inc.

201209-07-047 07 Redwood Hall, 1 st Floor Lobby	ND	ND	ND	ND	NA
201209-07-048 08 Cypress Hall, 1 st Floor Lobby	ND	ND	ND	ND	NA
201209-07-049 09 Laurel Hall Vestibule	ND	ND	ND	ND	NA
201209-07-050 10 Laurel Hall, 2 nd Floor Hallway, near the elevator	ND	ND	ND	ND	NA
201209-07-051 11 Laurel Hall, 3 rd Floor Hallway, near the elevator	ND	ND	ND	ND	NA
201209-07-052 12 Laurel Hall, 4 th Floor Hallway, near the elevator	ND	ND	ND	ND	NA

RT-PCR 2019-nCoV: Analysis of Swab samples for the detection of 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)	Conc. (copies of RNA/cm ²)
201209-07-053 01 Campus Center, 1 st Floor Sitting Area Surface of Drink Vending Machine, Keyboard	ND	ND	ND	ND	NA
201209-07-054 02 Campus Center, 1 st Floor Sitting Area, Surface of Table 3, Seat 4	ND	ND	ND	ND	NA
201209-07-055 03 Campus Center, 1 st Floor Sitting Area, Surface of Table 4, Seat 2	ND	ND	ND	ND	NA

Prestige EnviroMicrobiology, Inc.

201209-07-056 04 Campus Center, 1 st Floor Sitting Area, Surface of Table 4, Seat 4	ND	ND	ND	ND	NA
201209-07-057 05 Campus Center, 1 st Floor Sitting Area, Surface of Table 6, Seat 2	ND	ND	ND	ND	NA
201209-07-058 06 Campus Center, 1 st Floor Sitting Area, Door Handle to GSA Office (Room 110A), Lobby Side	ND	ND	ND	ND	NA
201209-07-059 07 Houten Library, Computer CA-1047-034, Keyboard	ND	ND	ND	ND	NA
201209-07-060 08 Houten Library, Computer CA-1047-050, Keyboard	ND	ND	ND	ND	NA
201209-07-061 09 Houten Library, Computer CA-1047-052, Mouse	ND	ND	ND	ND	NA
201209-07-062 10 Houten Library, Computer CA-1047-063, Mouse	ND	ND	ND	ND	NA
201209-07-063 11 CKB, 3 rd Floor Lounge, Surface of Window Bench, Seat 01	ND	ND	ND	ND	NA
201209-07-064 12 Colton Hall, Room 243, Chair Arm Rest	ND	ND	ND	ND	NA

Prestige EnviroMicrobiology, Inc.

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 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>

Prestige EnviroMicrobiology, Inc.

Analytical Test Report

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

Client Project/Name: 20-1175

Sample date: 12-09-2020

Submittal date: 12-09-2020

Sample received: 12-09-2020

Samples submitted by: Ross Hernandez/Kadeem Hill

Date analysis completed: December 10, 2020

Prestige Report number: 201209-08

RT-PCR 2019-nCoV: Analysis of Air samples for the detection of 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)	Conc. (copies of RNA/L)
201209-08-065 13 Laurel Hall, 5 th Floor Hallway, near the elevator	ND	ND	ND	ND	NA
201209-08-066 14 Laurel (Ext) Hall, 1 st Floor Hallway, near the elevator	ND	ND	ND	ND	NA
201209-08-067 15 Laurel (Ext) Hall, 2 nd Floor Hallway, near the elevator	ND	ND	ND	ND	NA
201209-08-068 16 Laurel (Ext) Hall, 3 rd Floor Hallway, near the elevator	ND	ND	ND	ND	NA
201209-08-069 17 Laurel (Ext) Hall, 4 th Floor Hallway, near the elevator	ND	ND	ND	ND	NA
201209-08-070 18 Laurel (Ext) Hall, 5 th Floor Hallway, near the elevator	ND	ND	ND	ND	NA
201209-08-071 19 Laurel (Ext) Hall, 6 th Floor Hallway, near the elevator	ND	ND	ND	ND	NA

Prestige EnviroMicrobiology, Inc.

201209-08-072 20 Laurel (Ext) Hall, 7 th Floor Hallway, near the elevator	ND	ND	ND	ND	NA
---	----	----	----	----	----

RT-PCR 2019-nCoV: Analysis of Swab samples for the detection of 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)	Conc. (copies of RNA/cm ²)
201209-08-073 13 Cypress Hall, 1 st Floor Kitchen, Refrigerator Handle	ND	ND	ND	ND	NA
201209-08-074 14 Cypress Hall, 1 st Floor Hallway, Elevator Call Button, Up	ND	ND	ND	ND	NA
201209-08-075 15 Cypress Hall, 2 nd Floor Elevator Call Button, Down	ND	ND	ND	ND	NA
201209-08-076 16 Cypress Hall, 3 rd Floor Lounge, Room 323, Microwave Handle	ND	ND	ND	ND	NA
201209-08-077 17 Cypress Hall, 3 rd Floor Lounge, Room 319, Faucet Handle	ND	ND	ND	ND	NA
201209-08-078 18 Cypress Hall, 4 th Floor Lounge, Room 423, Faucet Handle	ND	ND	ND	ND	NA
201209-08-079 19 Cypress Hall, 4 th Floor Lounge, Room 423, Microwave Handle	ND	ND	ND	ND	NA

Prestige EnviroMicrobiology, Inc.

201209-08-080 20 Cypress Hall, 5 th Floor Lounge, Room 523, Faucet Handle	ND	ND	ND	ND	NA
201209-08-081 21 Cypress Hall, 5 th Floor Lounge, Room 523, Microwave Handle	ND	ND	ND	ND	NA
201209-08-082 22 Cypress Hall, 5 th Floor Lounge, Room 523, Table Surface	ND	ND	ND	ND	NA
201209-08-083 23 Cypress Hall, 5 th Floor Elevator Call Button, Down	ND	ND	ND	ND	NA
201209-08-084 24 Cypress Hall, 7 th Floor Lounge, Room 723, Faucet Handle	ND	ND	ND	ND	NA
201209-08-085 25 Cypress Hall, 7 th Floor Lounge, Room 723, Microwave Handle	ND	ND	ND	ND	NA
201209-08-086 26 Cypress Hall, 8 th Floor Lounge, Room 823, Faucet Handle	ND	ND	ND	ND	NA
201209-08-087 27 Laurel Hall, 1 st Floor Door Handle to Lobby, Vestibule Side	ND	ND	ND	ND	NA
201209-08-088 28 Laurel Hall, 1 st Floor Elevator Call Button, Up	ND	ND	ND	ND	NA
201209-08-089 29 Redwood Hall, 1 st Floor Door	ND	ND	ND	ND	NA

Prestige EnviroMicrobiology, Inc.

Handle to Lobby, Vestibule Side					
201209-08-090 30 Redwood Hall, 1 st Floor Lobby, Drink Vending Machine, Keyboard	ND	ND	ND	ND	NA
201209-08-091 31 Redwood Hall, 5 th Floor Hallway, Elevator 1 Call Button, Down	ND	ND	ND	ND	NA

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 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>