

General Assembly COVID-19 Testing Report

October 14, 2021

Technology and Supplies Procured or Acquired

- Specimen collection supplies for diagnostic testing including Nasopharyngeal swabs, Viral Transport Media Tubes, Labels for the tubes, specimen collection bags
- Specimen collection supplies for serology testing including blood collection needles and tubes
- Two QiaGen EZ1 instruments
- Additional Roche MagNaPure 96 instrument
- Roche Cobas 8800 – building renovations are needed on-site to install this equipment. Anticipated date end of November.
- Biomerieux EMAG
- Additional ThermoFisher KingFisher Flex extractors
- Hamilton Liquid handler platform for molecular testing preparation (PCR, whole genome sequence (WGS) analysis)
- Qiagen Qiagility liquid handling platforms for molecular testing preparation
- Testing supplies including reagents and consumables for the Roche MagNa Pure 96, the ThermoFisher KingFisher FLEX, the bioMerieux EasyMAG & EMAG, the Qiagen EZ1, and the Thermo Fisher 7500 Fast DX thermocyclers, Dynex DSX/DS2 platforms for serology testing
- Test kits for the Abbott ID NOW platforms – BOL not involved
- Laboratory supplies including test tube racks, waste containers, gloves, Lysol wipes, masks, disinfectant
- Shipping supplies including insulated shipping boxes, cold packs, and labels
- Recently, expanded WGS capability to include SARS-Covid-2 and analysis for variants

Administrative and Operating Costs of BOL for COVID-19

*Costs are for COVID activities only, for January 2020 through present. Costs include overtime, supplies, equipment, courier services.

\$ 8,417,714.79

Number and Type of Tests Completed by BOL

*Non-positive results include negative and inconclusive results. Results are for March 2020 through October 13, 2021.

Positive PCR Tests	Non-positive PCR Tests	Total
17,527	234,167	251,694

Positive Serology Tests	Negative Serology Tests	Total
2,106	1,074	3,180

BOL Testing Limitations

- The State Laboratory is currently a limiting factor. We are in the process of purchasing more high throughput instruments to increase our testing capacity, but we have limited space in our laboratory. We are looking at another temporary location or minor renovations to increase our COVID testing capacity.

Demographic Test Result Data for All Test Results

*Includes PCR test results only for PA residents. Non-positive results include negative and inconclusive results. Results are for March 2020 through October 13, 2021.

Age			
	Non-positive	Positive	Total
Unknown	8,232	288	8,520
0-4 Years	236,610	25,473	262,083
5-12 Years	387,860	63,172	451,032
13-18 Years	403,399	84,633	488,032
19-24 Years	576,128	133,153	709,281
25-49 Years	1,960,713	460,528	2,421,241
50-64 Years	1,137,036	264,042	1,401,078
65+ Years	1,009,976	209,757	1,219,733
Total	5,719,954	1,241,046	6,961,000

Sex			
	Non-positive	Positive	Total
Female	3,024,571	655,160	3,679,731
Male	2,566,232	581,255	3,147,487
Other	755	38	793
Unknown	128,396	4,593	132,989
Total	5,719,954	1,241,046	6,961,000

Race			
	Non-positive	Positive	Total
Asian	134,836	24,517	159,353
Black	500,124	144,400	644,524
White	2,786,116	714,329	3,500,445
Other	54,446	20,004	74,450
Unknown	2,244,432	337,796	2,582,228
Total	5,719,954	1,241,046	6,961,000

Ethnicity			
	Non-positive	Positive	Total
Unknown	3,932,089	728,209	4,660,298
Hispanic	256,676	99,465	356,141
Non-Hispanic	1,531,189	413,372	1,944,561
Total	5,719,954	1,241,046	6,961,000