

**Portsmouth, NH Peirce Island Wastewater Treatment Facility
SARS-CoV-2 Biomarker Results Summary**

Report Date: June 24, 2022; Sampled by: Kathy Sanborn, June 21, 2022
Prepared by Kellen Sawyer, Reviewed by Paula Mouser, P.E., PhD

Dates Sampled for this Monitoring Period:

Tuesday, June 21, 2022*
Tuesday, June 14, 2022
Tuesday, June 7, 2022

*New samples since last report

Method: A 24-hour flow weighted composite sample was taken from June 20-21, 2022. This sample was preprocessed and extracted using a solids separation, Ceres Nanoscience viral concentration, and Kingfisher extraction approach. Two viral markers (N1 and N2) and one human biomarker (RP) were quantified via Bio-Rad QX200 ddPCR.

Results: Both of the SARS-CoV-2 N1 and N2 viral biomarkers were detected (LOD=172 copies/100 ml) for the composite sample taken June 20-21, 2022. Biomarkers remain low, and are similar to levels reported earlier in the month on 6/7.

Table 1: Sample date and biomarker results. "BDL" represents values below the quantified limits of instrument detection of 172 copies/100 mL wastewater.

Sample Date	SARS-CoV-2 Biomarkers	
	N1 copies/100mL	N2 copies/100mL
06/21/2022*	523	644
06/14/2022	BDL	BDL
06/07/2022	598	633

*New samples since last report

For more detailed information regarding local, county, and statewide COVID-19 infections, please refer to the data reported through the New Hampshire Division of Health and Human Services website <https://www.covid19.nh.gov/dashboard>.