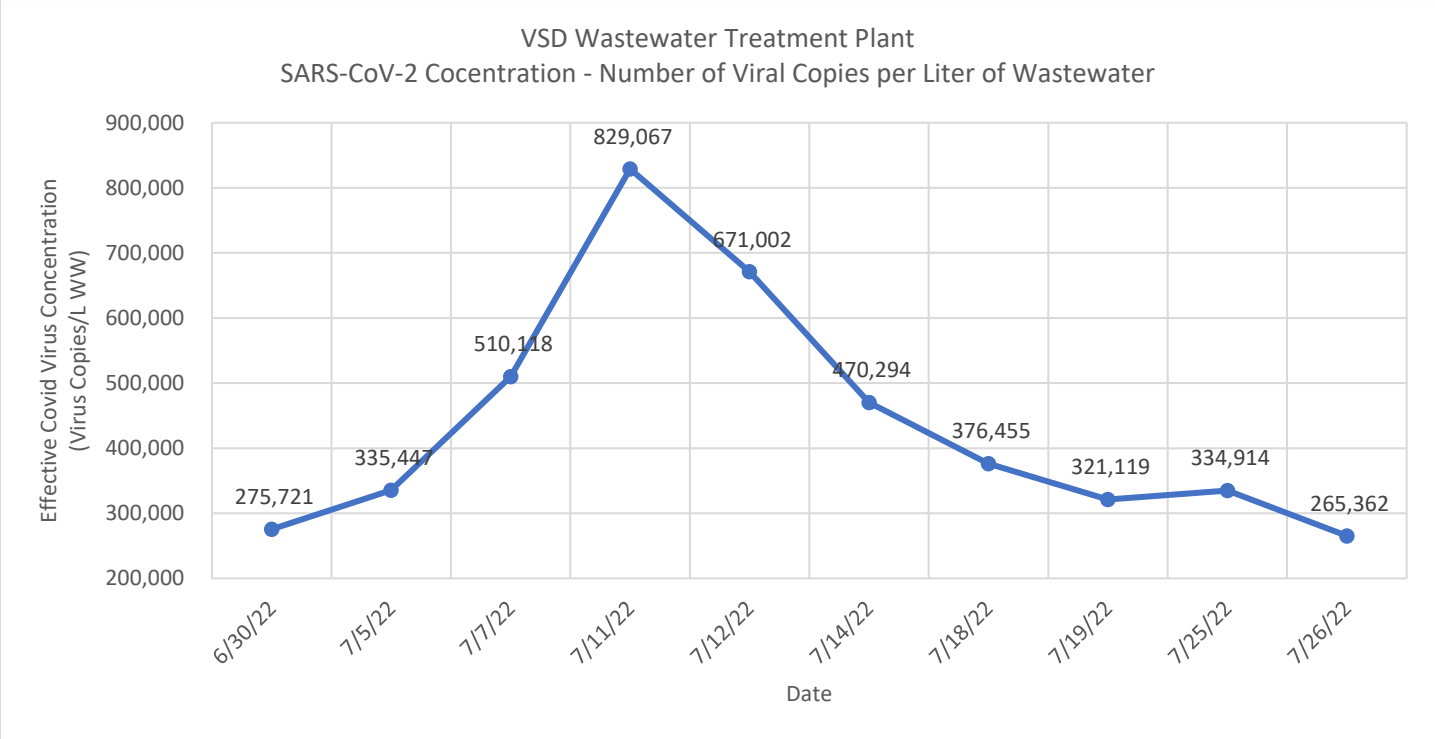
VSD Wastewater Treatment Plan COVID-19 Testing

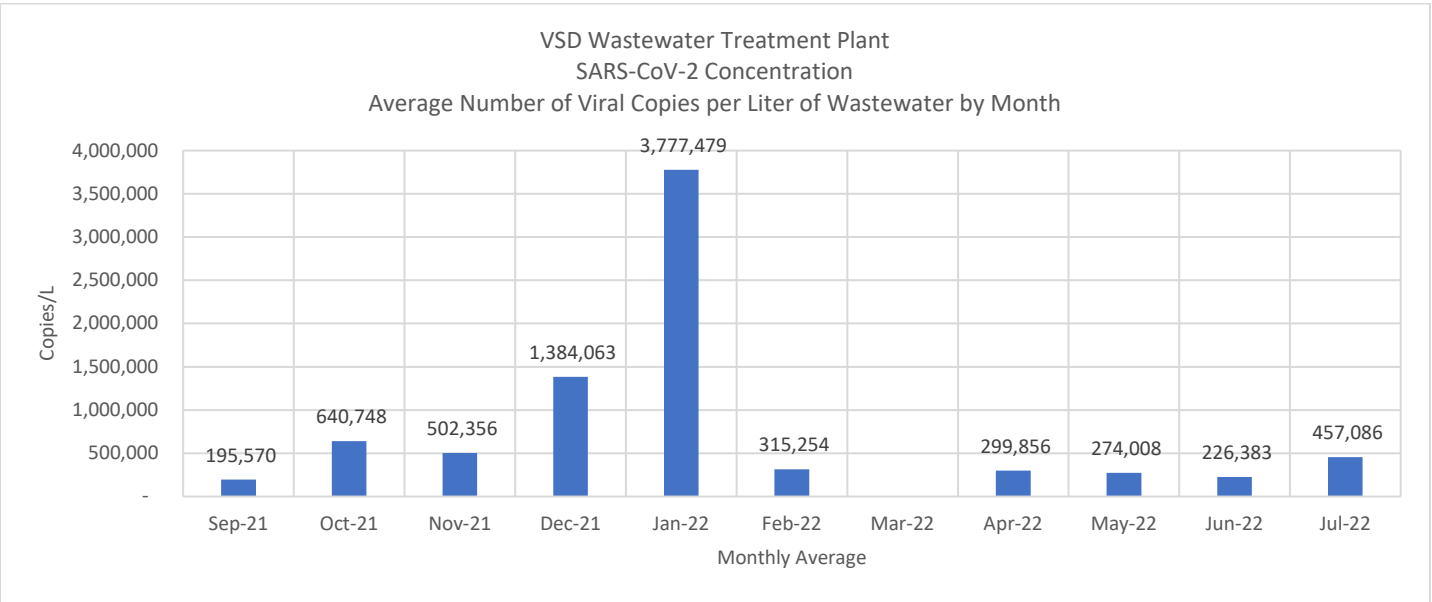
Valley Sanitary District (VSD) is one of many agencies voluntarily sampling its wastewater for the detection of SARS-CoV-2 (COVID-19). VSD staff collect a 24-hour composite sample from the wastewater treatment plant influent which is analyzed by Biobot Analytics. The CDC selected Biobot to expand the agency's National Wastewater Surveillance System (NWSS) as part of President Biden's plan to fight Covid-19 and prepare for future pandemics.

Results as of Last Sample Collected on July 26, 2022



The average number of copies/L recorded at VSD wastewater treatment plant has decreased.

Monthly Averages: Monthly averages since we started testing in September 2021



Covid-19 Wastewater Monitoring results in the US, by region, and county can be found at: biobot.io/data

Biobot Weekly Epidemiology Update Report Summary:

Update as of July 20, 2022

Top Line❗📈: The nation and three of four regions have reached high plateaus, while the Midwest is still increasing.

What's going on with the Biobot wastewater data this past week?:

- Biobot's national average wastewater concentration increased 4% (38 c/mL) from 1,079 c/mL to 1,117 c/mL between July 13 and July 20, 2022.
- The national average wastewater concentration is 4.3x lower than levels seen at the peak of Omicron (4,807 c/mL), and is 1.37x higher than the peak of the Delta wave.
- Current wastewater levels are 10.4x higher than levels seen at the post-Omicron trough in early March 2022.

Regionally:

- Wastewater concentration levels have reached high plateaus in three of four regions between July 13th and July 20th.
- The South has the highest concentration (1,244 c/mL) and has plateaued (2%, 20 c/mL).
- The Midwest has the second highest concentration (1,045 c/mL) and has increased by 14% (127 c/mL).
- The West has the second lowest concentration (1,041 c/mL) and has also plateaued (1%, 13 c/mL).
- The Northeast region now has the lowest concentration (1,012 c/mL) and has stayed stable (2%, 16 c/mL).

Update as of July 13, 2022

Top Line❗📈: Wastewater levels are higher than they have been at any point in the pandemic except the first Omicron wave in winter 2021/2022.

Nationally:

- Biobot's national average wastewater concentration (1075 c/mL) increased 16% (147 c/mL) between July 6 and July 13.
- The national average wastewater concentration is 32% higher than the peak of Delta (1075 c/mL vs. 814 c/mL).
- Current wastewater levels are 10x higher than levels seen at the post-Omicron trough in early March 2022.

Regionally:

- South: Increased by 23%, to 1228 c/mL
- Midwest: Increased by 14%, to 890 c/mL
- Northeast: Increased by 12%, to 983 c/mL
- West: Increased by 5%, to 1034 c/mL