

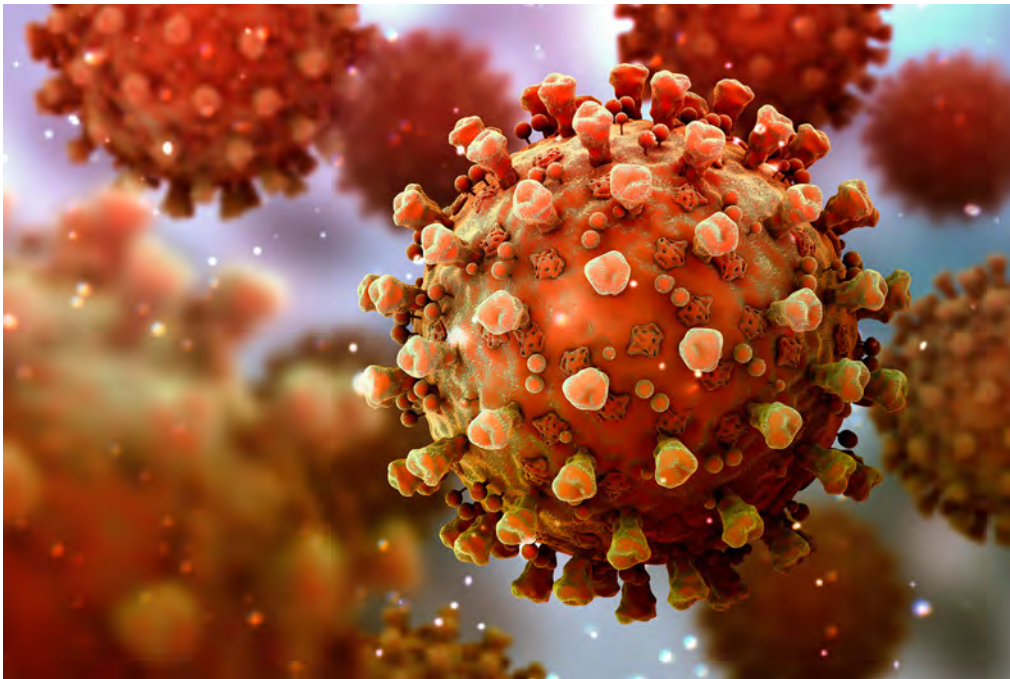
COVID-19 Testing in Wastewater

Board of Public Utilities Meeting
June 17, 2021



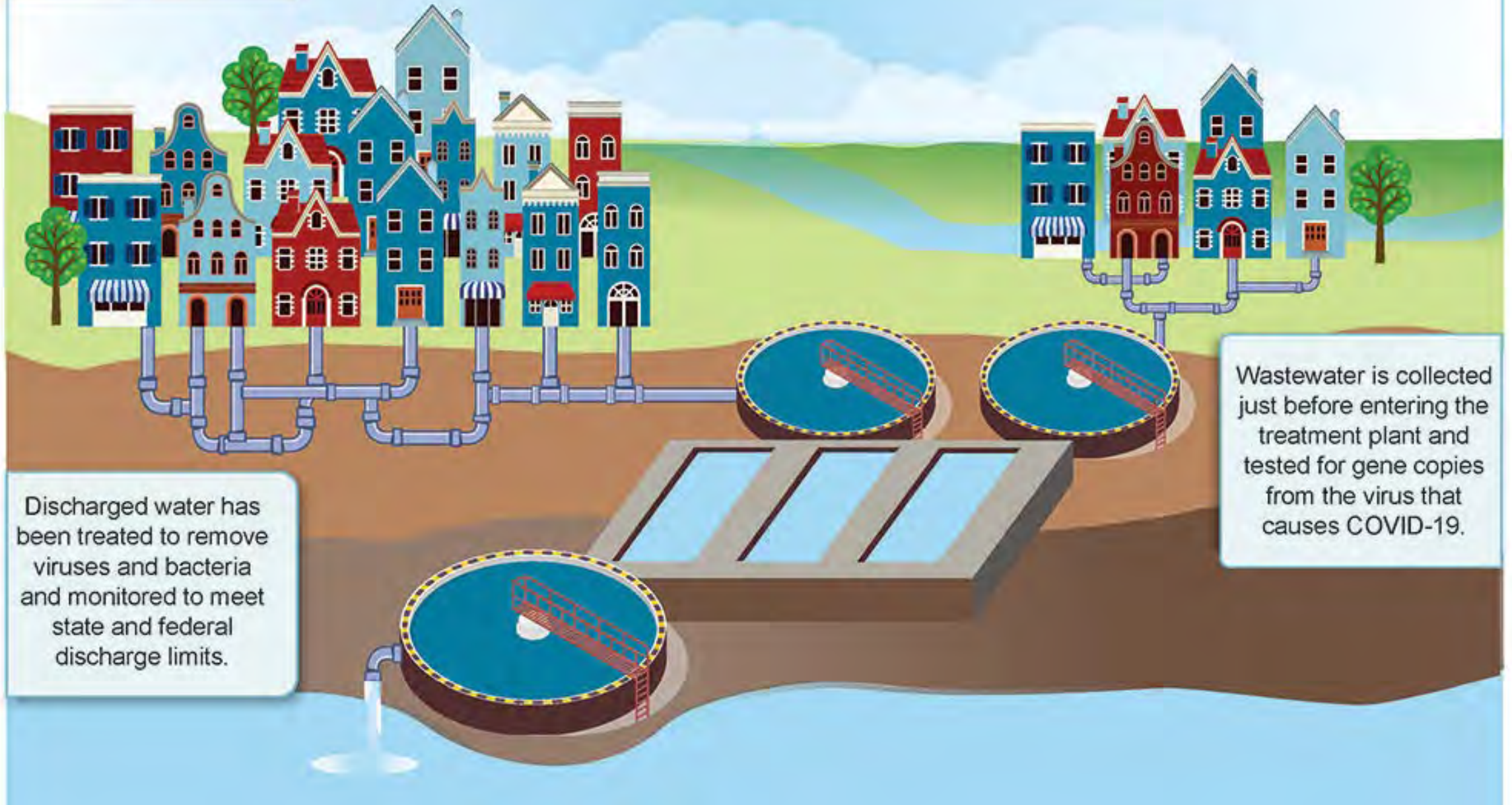
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Covid-19 Tracking



- Covid-19 infections are under reported
- People shed virus in stool 3-4 days after infection
- Virus does not survive in sewer but
- Dead viruses leave RNA traces that can be detected and analyzed

■ Homes with COVID-19.
■ Homes without COVID-19.



Discharged water has been treated to remove viruses and bacteria and monitored to meet state and federal discharge limits.

Wastewater is collected just before entering the treatment plant and tested for gene copies from the virus that causes COVID-19.

National Study

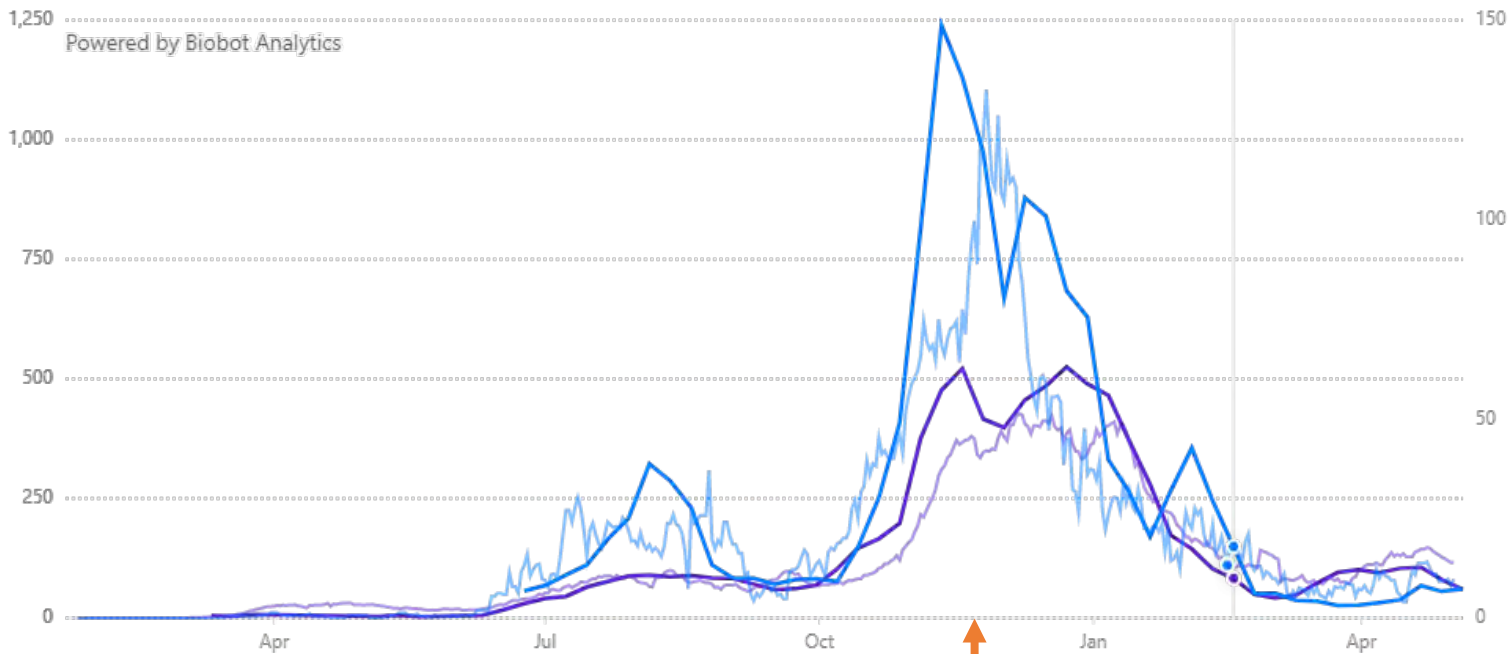
- City collects samples once/week
- Sends samples to lab in Massachusetts
- Lab analyzes samples
- City receives data
- No cost to the City



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Comparisons- Elko County, NV

Location	Virus in Wastewater	COVID-19 Cases
West	476.9 copies/ml	41 cases/100k people
Elko County, NV	1,239.4 copies/ml	72.5 cases/100k people



<https://www.biobot.io/data>



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Benefits

- Sharing information with Sonoma County Health Services
- Detect virus load in community including asymptomatic and pre-symptomatic
- Can detect different strains
- Support a better understanding of disease spread
- Warn about potential outbreaks



More information

<https://www.biobot.io/data>



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