



Wastewater Epidemiology COVID-19 Report

Updated: 08-May-2024 | Data Complete Through: 05-May-2024

✉ wastewater@bphc.org



Boston Public
Health Commission

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Level: **Very High**

Level: **High**

Level: **Moderate**

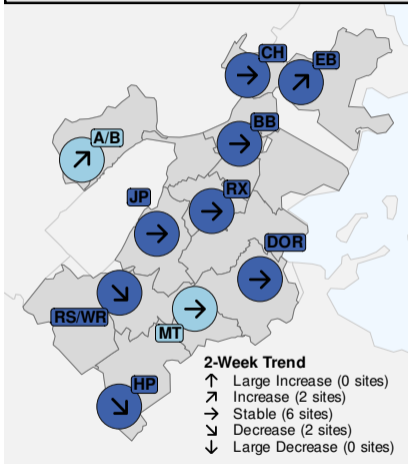
Level: **Low**

Level: **Very Low**


Neighborhood Levels and Trends



COVID-19 Wastewater Levels & Trends (05-May-2024)



BOSTON CITYWIDE COVID-19 LEVEL & TRENDS

COVID-19 LEVEL	2-WEEK TRENDS
<h1>Low</h1> <p>387 copies/mL samples through 05-May-2024</p>	 <p>Stable +71 copies/mL (+22%)</p>

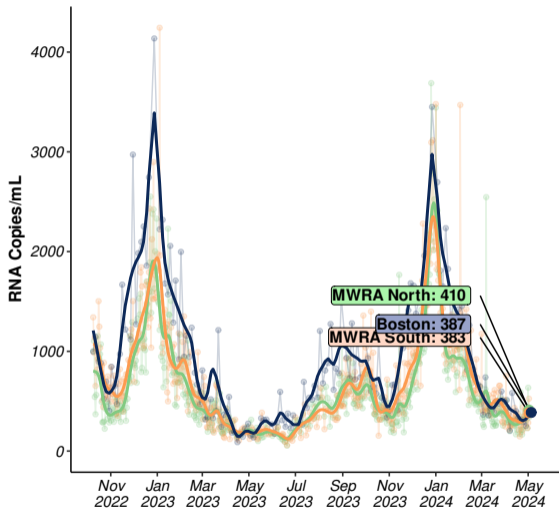
NEIGHBORHOOD SITES COVID-19 LEVEL & TRENDS

Level	Neighborhood/Site	Trend
Low	Mattapan (MT)	→ Stable
	Allston/Brighton (A/B)	↗ Increase
Very Low	Dorchester (DOR)	→ Stable
	Jamaica Plain (JP)	→ Stable
	Back Bay (BB)	→ Stable
	Charlestown (CH)	→ Stable
	East Boston (EB)	↗ Increase
	Roslindale/West Roxbury (RS/WR)	↘ Decrease
	Roxbury (RX)	→ Stable
	Hyde Park (HP)	↘ Decrease

For additional details see:

- [Results by Neighborhood](#)
- [Detailed Neighborhood Levels and Trends Table](#)
- [Trend and Level Category Definitions](#)

Citywide Overview and Trends



CITYWIDE
AVERAGE

387

RNA copies/mL

RANGE ACROSS 11
NEIGHBORHOOD SITES

109-688

RNA copies/mL

Data through: **05-May-2024**

2-WEEK TRENDS

Boston
Stable

+22%
over the past 14 days

MWRA North
Stable

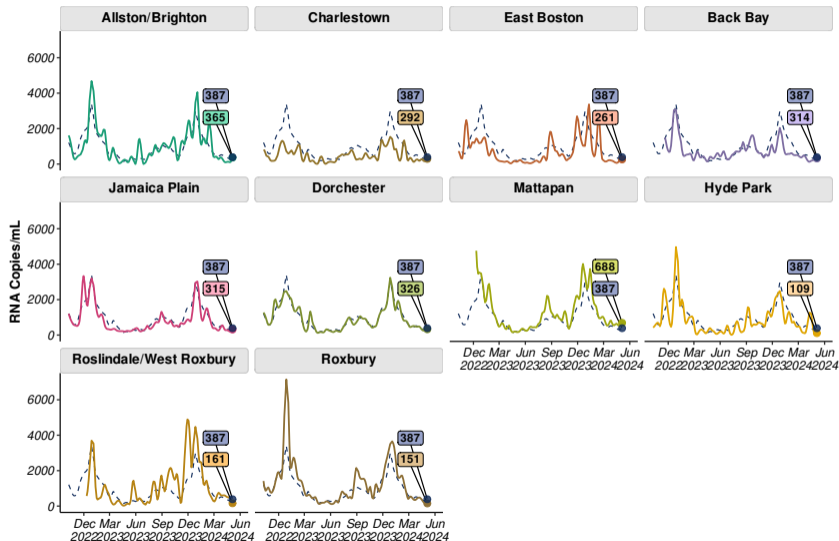
+51%
over the past 14 days

MWRA South
Stable

+31%
over the past 14 days

Updated: 08-May-2024 | Samples through: 05-May-2024 (BPHC); 02-May-2024 (MWRA) | MWRA Data: <https://www.mwra.com/biobot/biobotdata.htm>

BPHC Trend Overview by Neighborhood

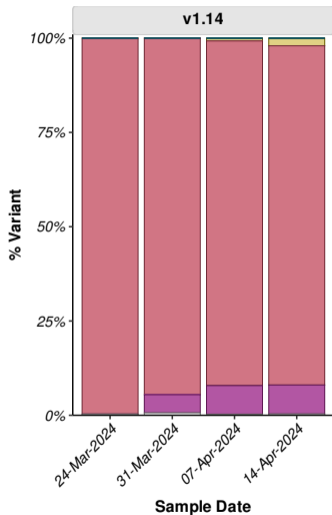


For each neighborhood, colored line and textbox shows the smoothed trend and most recent value in that neighborhood;

The dotted blue line and dark blue text box in each panel shows the trend and most recent value across **all Boston sites** weighted by population.

To see details and interpretation of these results for an individual neighborhood see [Results by Neighborhood](#).

Citywide Percent Variant Lineages



Variant	%
XBB	0.0%
XBB.1.5	0.0%
XBB.1.9	0.0%
EG.5	0.0%
BA.2.86	2.0%
JN.1	90.0%
JN.1.13	7.7%
Other	0.4%

Average variant percentage across all BPHC sites weighted by population size | Table shows variant percentages for samples collected the week of 14-Apr-2024 (most recent available data); Variant results are reported weekly with a 3-week lag due to laboratory processing and analysis.

Sequencing Analysis Protocol Version: v1.14 (11-Apr-2024):

- XBB includes all XBB sublineages aside from those specifically reported
- "Other variants" contains all variants not explicitly quantified.

Version Changes: Added: JN.1.13

Removed: HV.1, FL.1.5.1

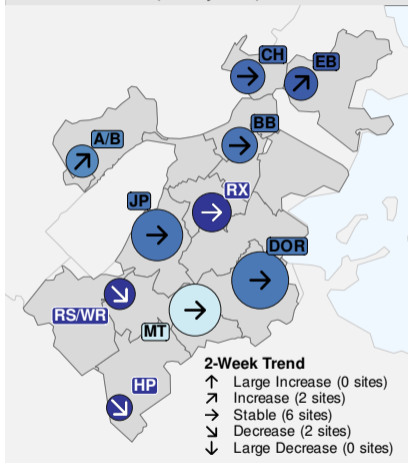
For Additional Info See:

<https://www.biobot.io/covid19-variants-report-notes/>

Neighborhood Levels and Data Table



COVID-19 Wastewater Levels & Trends
(05-May-2024)



NH	COVID-19 Wastewater Levels		2-Week Trends		
	Conc. (copies/mL)	Level	Trend	Diff. (copies/mL)	% Change
BOSTON	387	Low	Stable	+71	+22%
MT	688	Low	Stable	+135	+24%
SB	455	Low	Large Decrease	-559	-55%
A/B	365	Low	Increase	+237	+184%
DOR	326	Very Low	Stable	+75	+30%
JP	315	Very Low	Stable	+73	+30%
BB	314	Very Low	Stable	+98	+45%
CH	292	Very Low	Stable	+97	+49%
EB	261	Very Low	Increase	+158	+155%
RS/WR	161	Very Low	Decrease	-334	-67%
RX	151	Very Low	Stable	-85	-36%
HP	109	Very Low	Decrease	-339	-76%

Concentration Levels: Very High: >1,400 copies/mL; High: 1,050-1,400 copies/mL; Moderate: 700-1,050 copies/mL; Low: 350-700 copies/mL; Very Low: ≤350 copies/mL

2-Week Trend Categories: Large Increase: >+500 copies/mL; Increase: +150 to +500 copies/mL; Stable: -150 to +150 copies/mL; Decrease: -500 to -150 copies/mL; Large Decrease: ≤-500 copies/mL

Results by Neighborhood



- Allston-Brighton (A/B)
- Back Bay (BB)
- Charlestown (CH)
- Dorchester (DOR)
- East Boston (EB)
- Hyde Park (HP)
- Jamaica Plain (JP)
- Mattapan (MT)
- Roslindale/West Roxbury (RS/WR)
- Roxbury (RX)
- South Boston (SB)

Allston/Brighton

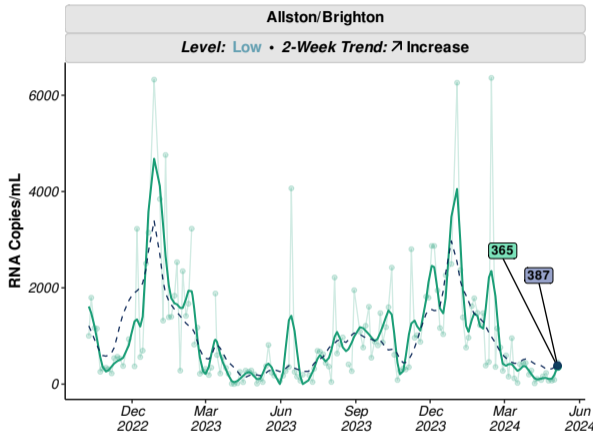


Level: **Low**

- Average value in **A/B** over the past week: **365** copies/mL.
- This value is **low** compared to past values and **similar** than the citywide average (**387** copies/mL).

Trend: **↗ Increase**

- Over the past two weeks, values in **A/B** are **increasing**.
- Change compared to two weeks ago: **+237** copies/mL (**+184%**).



See [recommended actions and resources](#) based on levels and trends in this neighborhood.

Back Bay

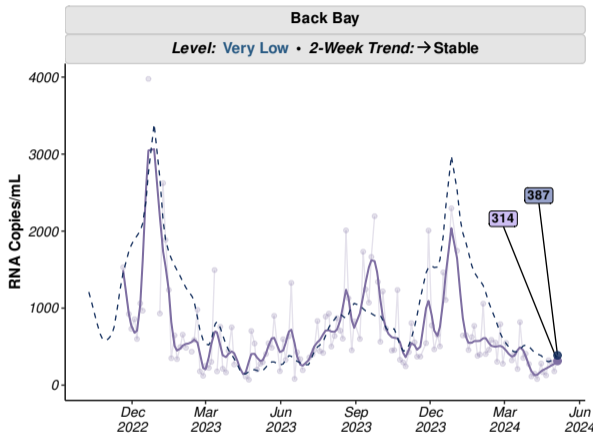


Level: **Very Low**

- Average value in **BB** over the past week: **314** copies/mL.
- This value is **very low** compared to past values and **similar** than the citywide average (**387** copies/mL).

Trend: → **Stable**

- Over the past two weeks, values in **BB** are **stable**.
- Change compared to two weeks ago: **+98** copies/mL (+45%).



Updated: 08-May-2024 | Samples through: 05-May-2024 (BB);

See [recommended actions and resources](#) based on levels and trends in this neighborhood.

Charlestown

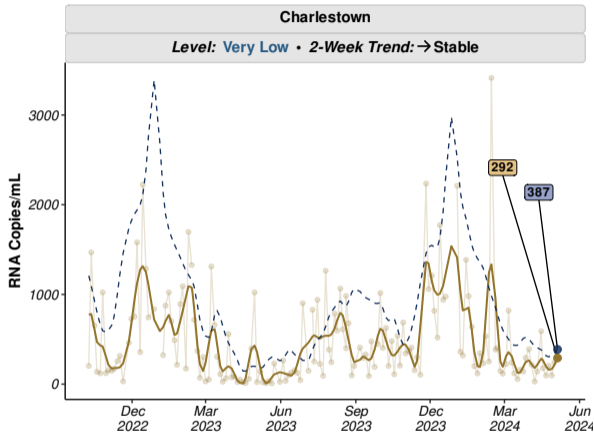


Level: **Very Low**

- Average value in **CH** over the past week: **292** copies/mL.
- This value is **very low** compared to past values and **similar** than the citywide average (**387** copies/mL).

Trend: → **Stable**

- Over the past two weeks, values in **CH** are **stable**.
- Change compared to two weeks ago: **+97** copies/mL (**+49%**).



Updated: 08-May-2024 | Samples through: 05-May-2024 (CH);

See [recommended actions and resources](#) based on levels and trends in this neighborhood.

Dorchester

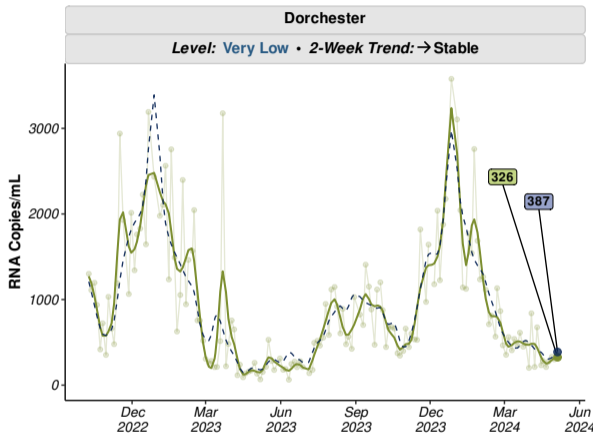


Level: **Very Low**

- Average value in **DOR** over the past week: **326** copies/mL.
- This value is **very low** compared to past values and **similar** than the citywide average (**387** copies/mL).

Trend: → **Stable**

- Over the past two weeks, values in **DOR** are **stable**.
- Change compared to two weeks ago: **+75** copies/mL (**+30%**).



See [recommended actions and resources](#) based on levels and trends in this neighborhood.

East Boston

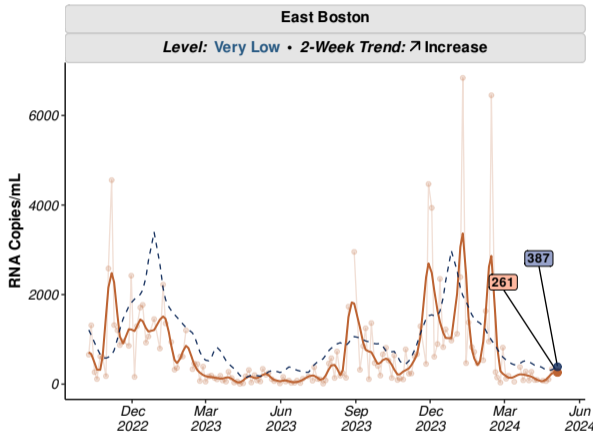


Level: **Very Low**

- Average value in **EB** over the past week: **261** copies/mL.
- This value is **very low** compared to past values and **similar** than the citywide average (**387** copies/mL).

Trend: **↗ Increase**

- Over the past two weeks, values in **EB** are **increasing**.
- Change compared to two weeks ago: **+158** copies/mL (**+155%**).



Updated: 08-May-2024 | Samples through: 05-May-2024 (EB);

See [recommended actions and resources](#) based on levels and trends in this neighborhood.

Hyde Park

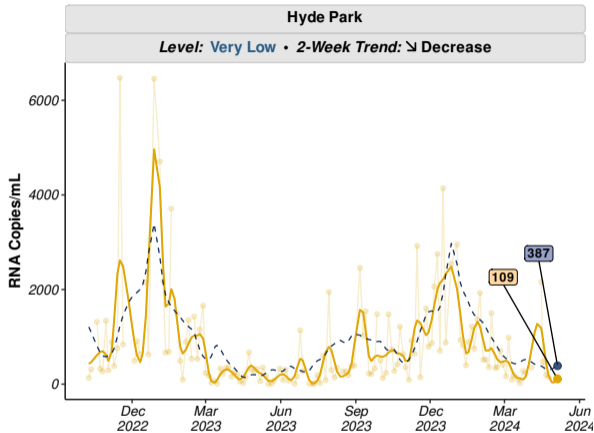


Level: **Very Low**

- Average value in **HP** over the past week: **109** copies/mL.
- This value is **very low** compared to past values and **similar** than the citywide average (**387** copies/mL).

Trend: **↘ Decrease**

- Over the past two weeks, values in **HP** are **decreasing**.
- Change compared to two weeks ago: **-339** copies/mL (**-76%**).



Updated: 08-May-2024 | Samples through: 05-May-2024 (HP);

See [recommended actions and resources](#) based on levels and trends in this neighborhood.

Jamaica Plain

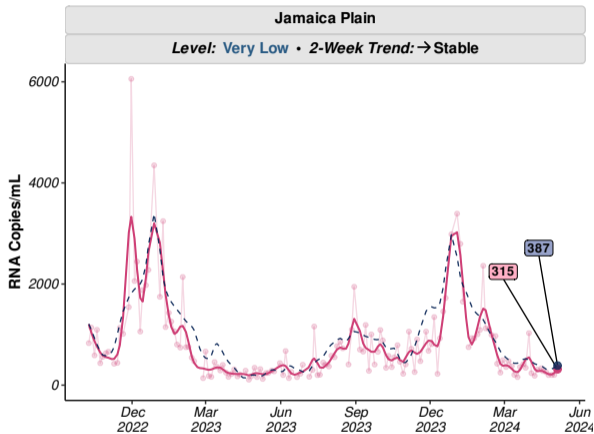


Level: **Very Low**

- Average value in **JP** over the past week: **315** copies/mL.
- This value is **very low** compared to past values and **similar** than the citywide average (**387** copies/mL).

Trend: → **Stable**

- Over the past two weeks, values in **JP** are **stable**.
- Change compared to two weeks ago: **+73** copies/mL (**+30%**).



Updated: 08-May-2024 | Samples through: 05-May-2024 (JP);

See [recommended actions and resources](#) based on levels and trends in this neighborhood.

Mattapan

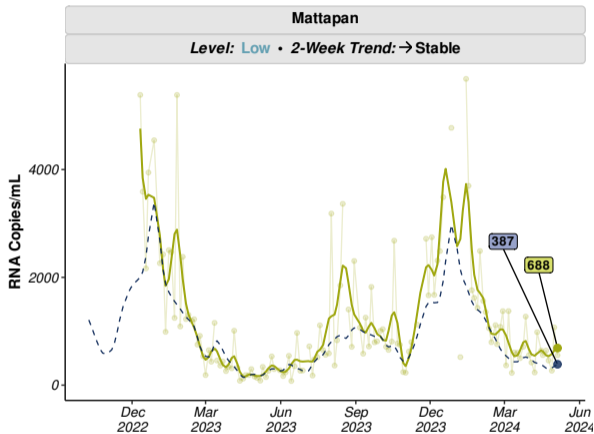


Level: **Low**

- Average value in **MT** over the past week: **688** copies/mL.
- This value is **low** compared to past values and **similar** than the citywide average (**387** copies/mL).

Trend: → **Stable**

- Over the past two weeks, values in **MT** are **stable**.
- Change compared to two weeks ago: **+135** copies/mL (**+24%**).



Updated: 08-May-2024 | Samples through: 05-May-2024 (MT);

See [recommended actions and resources](#) based on levels and trends in this neighborhood.

Roslindale/West Roxbury

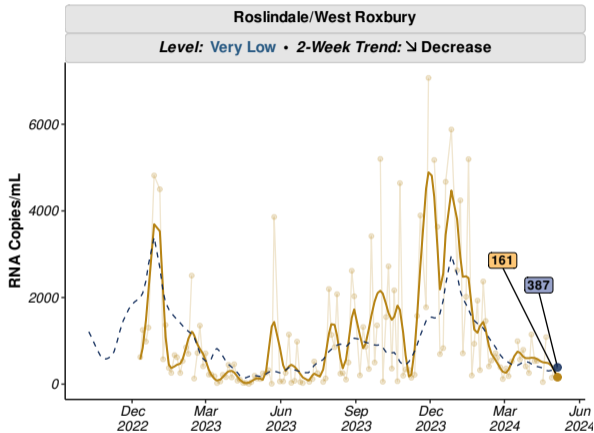


Level: **Very Low**

- Average value in **RS/WR** over the past week: **161** copies/mL.
- This value is **very low** compared to past values and **similar** than the citywide average (**387** copies/mL).

Trend: **Decrease**

- Over the past two weeks, values in **RS/WR** are **decreasing**.
- Change compared to two weeks ago: **-334** copies/mL (**-67%**).



Updated: 08-May-2024 | Samples through: 05-May-2024 (RS/WR);

See [recommended actions and resources](#) based on levels and trends in this neighborhood.

Roxbury

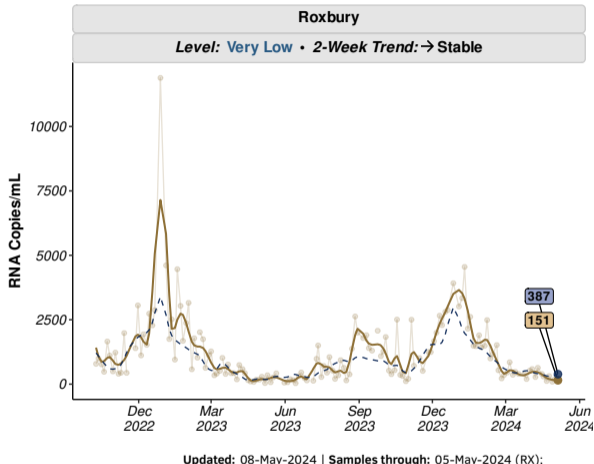


Level: **Very Low**

- Average value in **RX** over the past week: **151** copies/mL.
- This value is **very low** compared to past values and **similar** than the citywide average (**387** copies/mL).

Trend: → **Stable**

- Over the past two weeks, values in **RX** are **stable**.
- Change compared to two weeks ago: **-85** copies/mL (**-36%**).

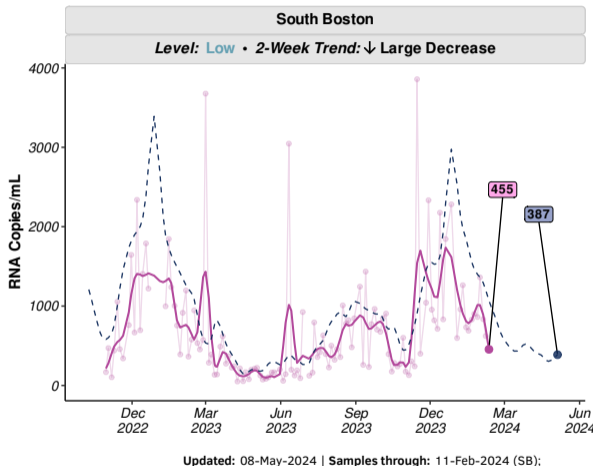


See [recommended actions and resources](#) based on levels and trends in this neighborhood.

South Boston



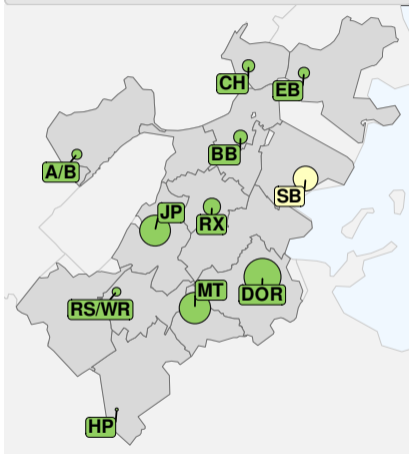
- As of 11-Feb-2024, sampling at the South Boston site has been paused indefinitely due to sewer construction
- Data for South Boston are shown through 11-Feb-2024



Site Status and Details



Status of Sampling Sites (08-May-2024)



#	Neighborhood	Date Site Confirmed	Site Status	Pop. Covered	% Neighborhood Covered
01	A/B	02-Oct-2022	Active	2,684	4.0%
02	CH	02-Oct-2022	Active	3,736	18.3%
03	EB	02-Oct-2022	Active	3,178	6.3%
04	BB	20-Nov-2022	Active	4,551	8.1%
05	SB	30-Oct-2022	Paused*	14,962	35.8%
07	JP	02-Oct-2022	Active	23,573	56.9%
08	DOR	02-Oct-2022	Active	34,562	23.8%
09	MT	11-Dec-2022	Active	24,441	80.5%
10	HP	02-Oct-2022	Active	1,262	3.5%
11	RS/WR	11-Dec-2022	Active	2,165	3.5%
12	RX	02-Oct-2022	Active	7,036	16.5%

Site Status (N=11)

a Active
(n=10)

a Paused
(n=1)

Level and Trend Category Definitions



Concentration Levels

Concentration Level	Concentration Value (Copies/mL)
Very High	>1,400
High	1,050-1,400
Moderate	700-1,050
Low	350-700
Very Low	≤350

2-Week Trend Categories

	Trend Category	Trend Value (Copies/mL)
↑	Large Increase	>+500
↗	Increase	+150 to +500
→	Stable	-150 to +150
↘	Decrease	-500 to -150
↓	Large Decrease	≤-500

Level: **Very High**



Wastewater viral levels in your neighborhood indicate **very high risk** of COVID-19 infection.

Based on this level, BPHC urgently recommends the following practices to prevent COVID-19 in your community:

- Wear a [high-quality mask or respirator](#)
- If you are at [high risk of getting very sick](#), consider limiting non-essential indoor activities in public where you could be exposed.
- If you have close contact with someone at [high risk of getting very sick](#), consider self-testing to detect infection before contact, and consider wearing a high-quality mask when indoors with them
- Stay up-to-date on [vaccinations](#).
- Seek testing and possible treatment if you get sick
- Stay home when sick and avoid contact with others who are sick
- Improve [indoor airflow and ventilation](#)
- Wash your hands often and cover coughs and sneezes
- Follow CDC recommendations for [isolation](#) if you have COVID-19 and for [what to do if you are exposed](#) to someone with COVID-19

RESOURCES

- Find a [vaccination clinic](#) in your neighborhood
- Find a [testing site](#) or pickup a [free at-home test kit](#) in your neighborhood
- Find [treatment](#) for COVID-19 including [free telehealth](#) and [in home treatment](#).
- Call or visit the [Mayor's Health Line](#)
- Learn more about COVID-19 and find additional resources: [COVID-19: Know the Facts Find the Truth](#)

Level: High



Wastewater viral levels in your neighborhood indicate **high risk** of COVID-19 infection.

Based on this level, BPHC strongly recommends the following practices to prevent COVID-19 in your community:

- Wear a [high-quality mask or respirator](#)
- If you have close contact with someone at [high risk of getting very sick](#), consider self-testing to detect infection before contact, and consider wearing a high-quality mask when indoors with them
- Stay up-to-date on [vaccinations](#).
- Seek testing and possible treatment if you get sick
- Stay home when sick and avoid contact with others who are sick
- Improve [indoor airflow and ventilation](#)
- Wash your hands often and cover coughs and sneezes
- Follow CDC recommendations for [isolation](#) if you have COVID-19 and for [what to do if you are exposed](#) to someone with COVID-19

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Level: Moderate



Wastewater viral levels in your neighborhood indicate **moderate risk** of COVID-19 infection.

Based on this level, BPHC recommends the following practices to prevent COVID-19 in your community:

- If you are at [high risk of getting very sick](#), wear a [high-quality mask or respirator](#) in public indoor spaces
- If you have close contact with someone at [high risk of getting very sick](#), consider self-testing to detect infection before contact, and consider wearing a high-quality mask when indoors with them
- Stay up-to-date on [vaccinations](#).
- Seek testing and possible treatment if you get sick
- Stay home when sick and avoid contact with others who are sick
- Improve [indoor airflow and ventilation](#)
- Wash your hands often and cover coughs and sneezes
- Follow CDC recommendations for [isolation](#) if you have COVID-19 and for [what to do if you are exposed](#) to someone with COVID-19

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Level: **Low**



Wastewater viral levels in your neighborhood indicate **low risk** of COVID-19 infection.

Based on this level, BPHC recommends the following practices to prevent COVID-19 in your community:

- **Continue to monitor wastewater levels and trends**
- Stay up-to-date on [vaccinations](#).
- Seek testing and possible treatment if you get sick
- Stay home when sick and avoid contact with others who are sick
- Improve [indoor airflow and ventilation](#)
- Wash your hands often and cover coughs and sneezes
- Follow CDC recommendations for [isolation](#) if you have COVID-19 and for [what to do if you are exposed](#) to someone with COVID-19

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Level: **Very Low**

Wastewater viral levels in your neighborhood indicate **very low risk** of COVID-19 infection.

Based on this level, BPHC recommends the following practices to prevent COVID-19 in your community:

- **Continue to monitor wastewater levels and trends**
- Stay up-to-date on [vaccinations](#).
- Seek testing and possible treatment if you get sick
- Stay home when sick and avoid contact with others who are sick
- Improve [indoor airflow and ventilation](#)
- Wash your hands often and cover coughs and sneezes
- Follow CDC recommendations for [isolation](#) if you have COVID-19 and for [what to do if you are exposed](#) to someone with COVID-19

RESOURCES

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- Find [treatment](#) for COVID-19 including [free telehealth](#) and [in home treatment](#).
- Call or visit the [Mayor's Health Line](#)
- Learn more about COVID-19 and find additional resources: [COVID-19: Know the Facts Find the Truth](#)