

THE SOUTHERN NEVADA HEALTH DISTRICT'S WEEKLY WASTEWATER SURVEILLANCE REPORT

November 20, 2025

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Definitions

Clade: A group that includes a common ancestor and all its descendants.

Dominant Variants: Versions of a virus, gene, or trait that are currently the most widespread or prevalent in a population.

Grab Sample: A single, discrete sample of wastewater collected at a specific time and location.

Liquid matrices: Refers to the fluid portion of sewage collected for testing and analysis.

Solid matrices: Water refers to the solid material (biosolids or sludge) that is separated from liquid wastewater during the treatment process.

Wastewater Scan: An organization focused on sewage, community, and network-based efforts that conducts wastewater surveillance to detect pathogens present in wastewater.

Variants of Interest (VOI): Viral variants with genetic changes that may affect transmissibility, diagnostics, or immune escape and are showing signs of increased spread.

Variant of Concern (VOC): A mutated form of a virus that demonstrates one or more of the following characteristics: increased ability to spread, greater severity of illness, reduced effectiveness of treatments, vaccines, or diagnostic tools, and the ability to evade immune protection.

Variants Under monitoring (VOM): KS.1.1, KP.3.3, LP.8.1, NB.1.8.1, KP.3, XFG

Verily: A private laboratory vendor contracted by CDC to test wastewater across the country for pathogen markers.

PMMoV (Pepper Mild Mottle Virus): It is a plant virus commonly found in human feces due to widespread consumption of pepper-containing foods.

Concentration levels: The viral concentration levels classify them into Low, Medium, and High based on tertile cutoffs from the data's distribution. It then identifies the minimum and maximum values within each group to define the range for each concentration level.

Symbols: Increasing: ↑ Decreasing: ↓ No change: →

Purpose

This report highlights the changes in wastewater concentration for selected pathogens within Clark County, Nevada. This report includes data for SARS CoV-2, Influenza (Flu) A, Influenza (Flu) B, Respiratory syncytial virus (RSV), Measles, *Candida Auris*, Rotavirus, Adenovirus group F, Hepatitis A, Parvovirus, Norovirus, and Mpox (clade II). All data was obtained from the Clark County Water Reclamation District, Flamingo Water Resource Center, City of Mesquite, Boulder City, selected Utah wastewater treatment facilities and California wastewater treatment facilities and is analyzed and reported by **Wastewater Scan** (<https://www.wastewaterscan.org/en>) a collaborative project led by **Stanford University**, **Emory University**^{2,3}, and **Verily**¹, funded through philanthropic support to Stanford. and Verily laboratories (<https://verily.com/>). The map below visualizes the wastewater treatment facilities in Nevada. A map of wastewater treatment facilities in Nevada is provided in the appendix.

Note: The Southern Nevada Health District (SNHD) uses PMMoV microbial normalization, while the CDC and the state rely on viral-activity normalization.

Executive Summary of November 20, 2025, Report

This report summarizes the latest wastewater pathogen surveillance results for Clark County, Nevada, and surrounding regions. The analysis focuses on three key facilities, the Flamingo Water Reclamation Facility (FWRF), Mesquite Wastewater Treatment Plant, and Boulder Wastewater Treatment Plant with comparisons to selected sites in Utah and California. Surveillance was carried out by WastewaterSCAN and Verily, targeting a wide range of pathogens, including SARS-CoV-2 and its variants, seasonal respiratory viruses (Influenza A, Influenza B, RSV, Human Metapneumovirus (HMPV)), and gastrointestinal pathogens (Norovirus, Rotavirus, *Enterovirus D68*, Hepatitis A). The study also accounts for site-level differences, noting that variations in sampling and analytical methods may influence results.

Key Findings (as of November 20, 2025)

Wastewater surveillance across ten monitored sites showed no detections of Measles except at Provo City, Utah, Mpox Clade II, Mpox Clade 1b, West Nile virus, Influenza H5, or RSV, indicating no current community transmission of these pathogens. The last Measles detection prior to this was recorded at FWRF, Nevada on August 1, with all subsequent samples testing negative.

SARS-CoV-2 concentrations are mostly declining, with Boulder City and Central Valley showing rising activity. Variant data indicate dominance of lineage XFG, with intermittent circulation of XFC, JN.1 sub lineages, LF.7, NB.1.8.1, NW.1, and others. Influenza A levels are generally low or stable, with moderate activity at Flamingo and minimal signals at most other plants; Influenza B is now very low or undetectable at nearly all sites. RSV and Human Metapneumovirus show classic winter spring peaks followed by currently low or non-detect levels.

Enteric and gastrointestinal pathogens show more mixed patterns. Norovirus, Rotavirus, Adenovirus Group F, and Parvovirus exhibit elevated or rising concentrations at several facilities, including Flamingo, A.K. Warren, Hyperion, Central Valley, Provo, RP-1, Riverside, and Valley Sanitary. Hepatitis A is detectable and rising at Flamingo and A.K. Warren, with a notably high but stable signal at Riverside. *Candida auris* remains almost entirely undetectable aside from a minimal signal at A.K. Warren. *Enterovirus D68* is low to moderate with rising trends at A.K. Warren and Hyperion, but absent at Flamingo, Central Valley, and Provo.

In summary, SARS-CoV-2 is rising at the Boulder City plant, while the Flamingo Water Resource Center shows high Parvovirus and Hepatitis A. Multiple facilities including A.K. Warren, Hyperion, Central Valley, Provo City, RP-1, Riverside, and Valley Sanitary District display elevated Norovirus, Rotavirus, and Parvovirus, with *Enterovirus D68* rising at A.K. Warren and Hyperion.

Methodological Notes: Sampling approaches differed by site. FWRF collected 24-hour composite solid samples analyzed by WastewaterSCAN, while Mesquite relied on liquid grab samples analyzed by Verily. Boulder Mesquite relied on liquid grab samples analyzed by Verily. These methodological differences likely influenced pathogen measurements and Wastewater surveillance for multiple pathogens across ten treatment facilities in Nevada (Flamingo Water Resource Center, Mesquite, Boulder City), California (A.K. Warren, Hyperion, RP-1, Riverside, Valley Sanitary District), and Utah (Central Valley, Provo City) through November 19–20, 2025. SARS should be considered when comparing results across facilities.

Summary of Select Pathogen Concentrations in three wastewater treatment facilities in Nevada

- Latest data point for Flamingo Water reclamation district plant November 19, 2025
- Latest data point for City of Mesquite Wastewater Treatment Plant is November 20, 2025
- Latest data point for Boulder City Wastewater Treatment Plant November 19, 2025

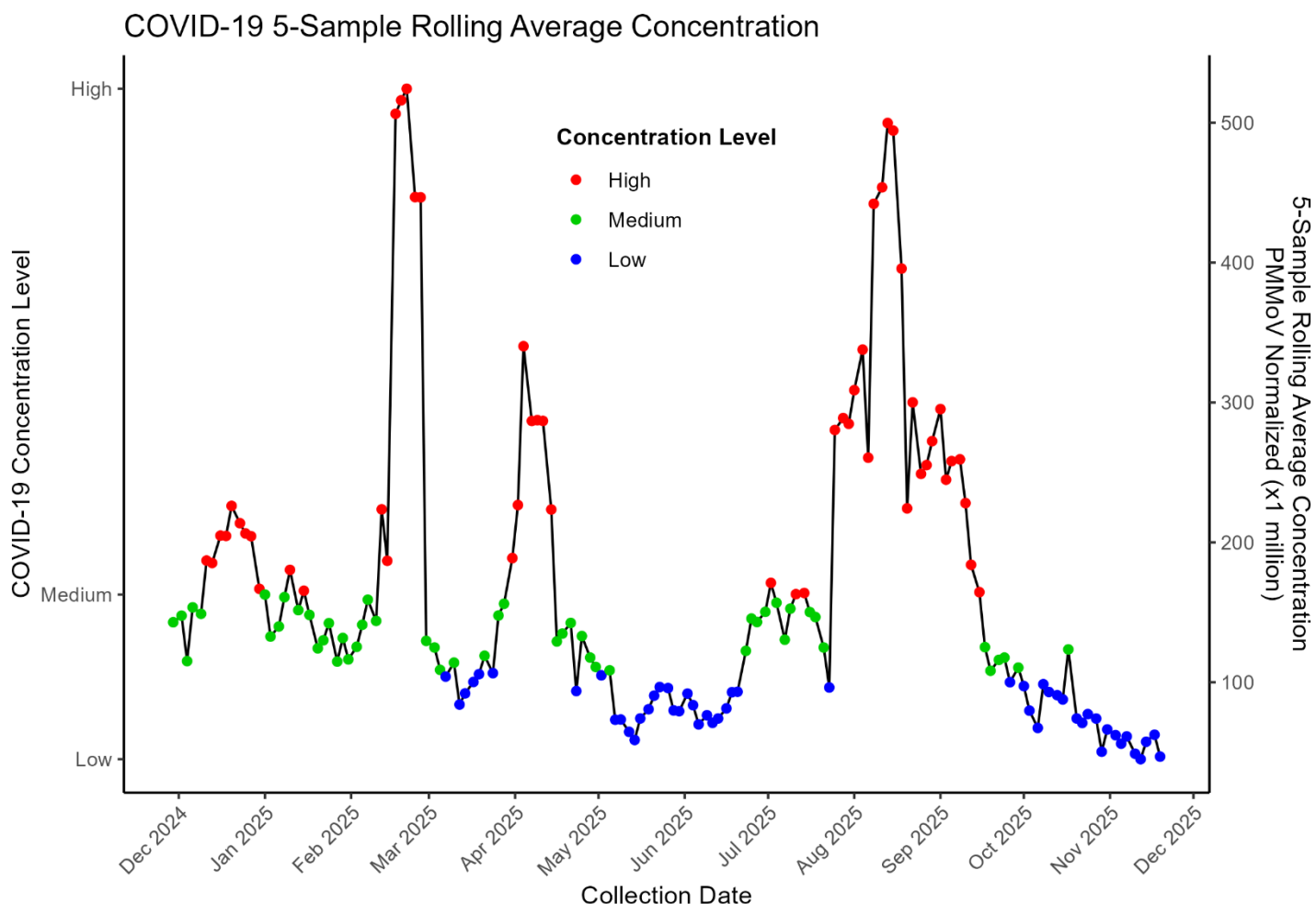
Pathogen	Concentration Level / Presence- Flamingo	Concentration Level / Presence- Boulder	Concentration Level / Presence - Mesquite
SARS-CoV-2	Low	High	Low
Influenza A	Medium	Low	Low
Influenza B	Low	Low	Low
Respiratory Syncytial virus (RSV)	Low	Low	Low
Norovirus	Low	Not Tested	Not Tested
Rotavirus	Low	Not Tested	Not Tested
<i>Enterovirus D68</i>	Low	Not Tested	Not Tested
Hepatitis A	High	Not Tested	Not Tested
<i>Candida Auris</i>	Low	Not Tested	Not Tested
Adenovirus Group F	High	Not Tested	Not Tested
Parvovirus	High	Not Tested	Not Tested
Mpox – Clade I	No Presence	No Presence	No Presence
Measles	No Presence	No Presence	No Presence
Mpox – Clade II	No Presence	No Presence	No Presence
Influenza H5	No Presence	No Presence	No Presence

Note: The wastewater data for Las Vegas were collected from the Flamingo Water Reclamation District Plant, where samples were analyzed on solids and sourced from Wastewater SCAN. In contrast, data for the City of Mesquite and Boulder City were analyzed on liquid samples by Verily and provided by the State Wastewater Epidemiology Team. Due to the differences in sample matrices (solids vs. liquids) and analytical methods, variations in virus concentrations between the three facilities are expected. Mesquite and Boulder sampling is conducted using grab sampling and is not performed over a 24-hour period.

SARS-CoV-2 Viral Concentration Trends in Clark County

Flamingo Water Reclamation District Plant

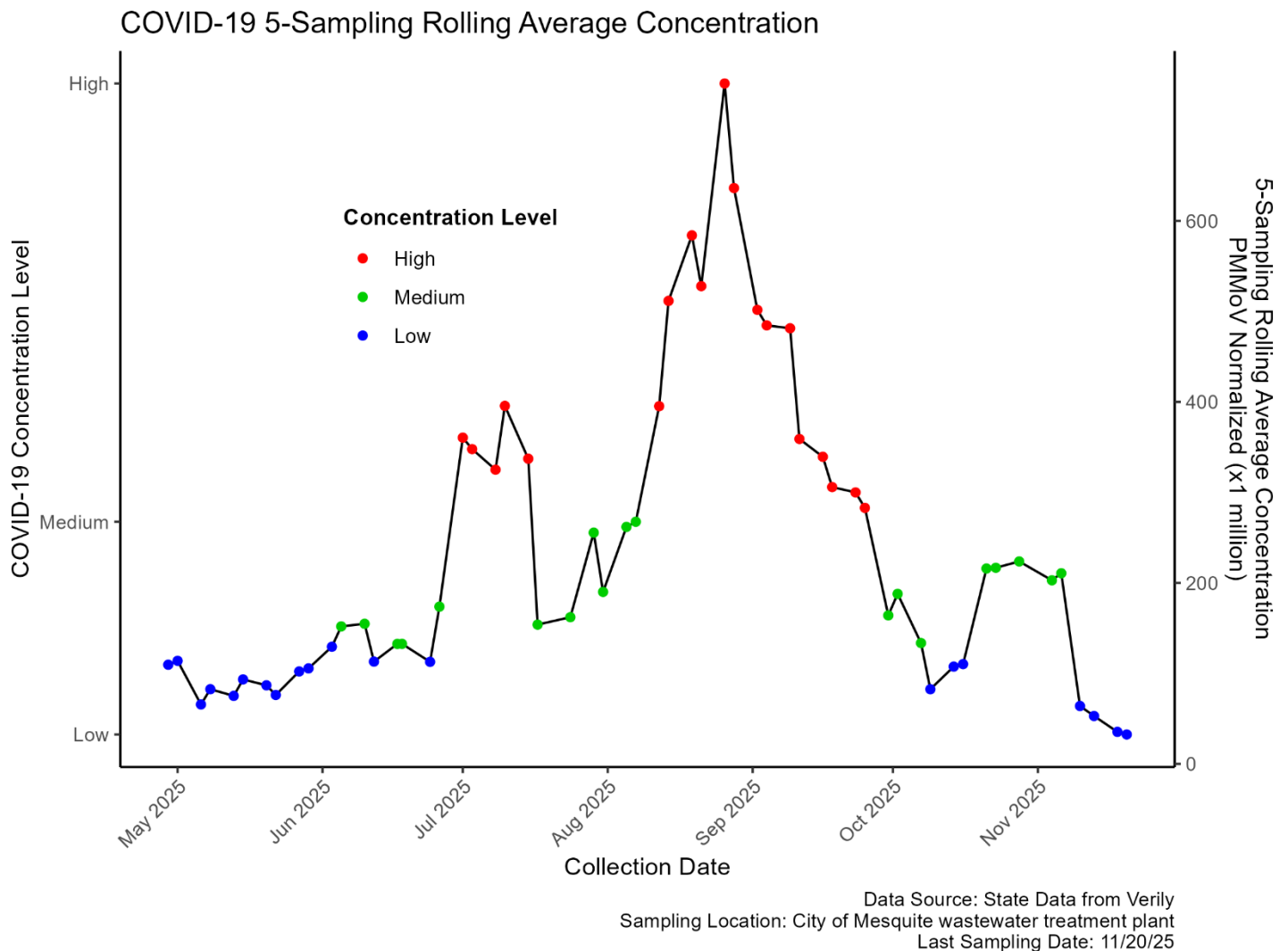
The chart illustrates the 5-sample rolling average of SARS-CoV-2 concentrations in wastewater from the Flamingo Water Reclamation District (Clark County) between December 2024 and November 19, 2025. Viral concentrations exhibited multiple pronounced peaks, notably in February, and August. Between these surges, levels declined to moderate or low values. Following the August spike, concentrations steadily decreased through September and mid-October. These patterns suggest several short-term outbreaks throughout the year, with an overall downward trend by early November 2025, indicating reduced community transmission.



Data Source: WastewaterScan.org
 Sampling Location: Clark County Water Reclamation District, Flamingo Water Resource Center
 Last Sampling Date: 11/19/25

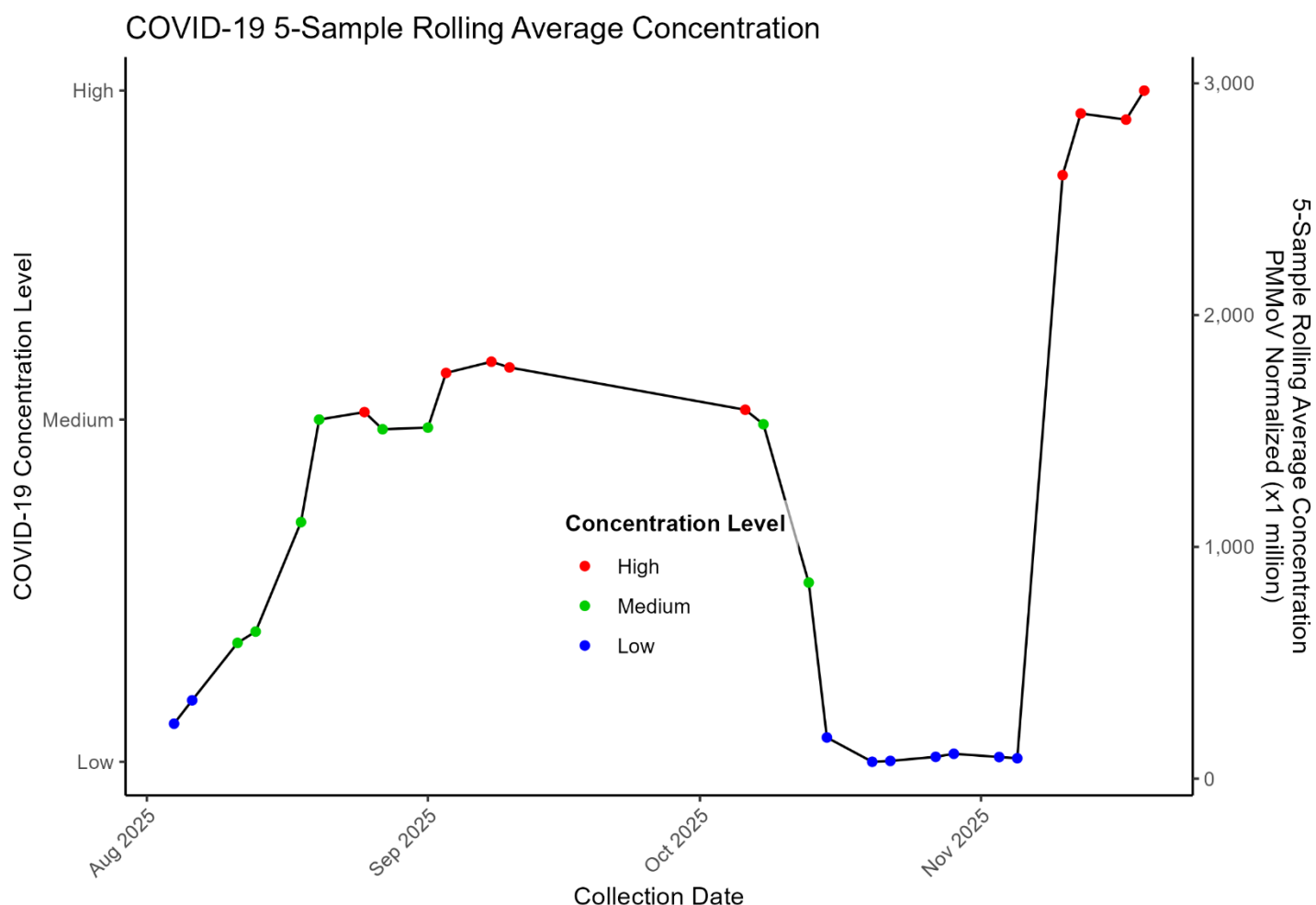
City of Mesquite Wastewater Treatment Plant

The chart shows SARS-CoV-2 concentrations in wastewater from the City of Mesquite treatment plant between May and November 20, 2025, using 5-sample rolling averages normalized by PMMoV. Concentrations stayed low through early summer, began rising in July, and reached their highest point from late August to early September. After September, levels declined steadily to low by mid-October, followed by a late-October increase that returned concentrations to low levels, which persisted through November 20. Categories are defined as high (red), medium (green), and low (blue).



Boulder City Wastewater Treatment Plant

The chart shows the 5-sample rolling average concentration of COVID-19 in wastewater from August to November 19, 2025 at the Boulder City treatment plant. Concentration levels rise from low in early August to medium and high by mid-September, peaking in late September. Levels then gradually decline through October before dropping sharply to very low levels in early November. A sudden spike appears again in mid-November, returning to high concentration. Points are color-coded by level (low, medium, high), and PMMoV-normalized concentrations are shown on the right axis. The latest sample date is November 19, 2025.



Data Source: State Data from Verily
Sampling Location: City of Boulder City wastewater treatment plant
Last Sampling Date: 11/19/25

SARS-CoV-2 Concentrations Interpretation

As of November 20, 2025, wastewater data across Nevada, California, and Utah shows mostly low or stable SARS-CoV-2 levels. Across ten monitored facilities, SARS-CoV-2 concentrations are largely declining, with decreases observed at Flamingo, Mesquite, A.K. Warren, Hyperion, Provo City, RP-1, Riverside, and Valley Sanitary District. Rising activity is identified at Boulder City (2,968.71 GC/L) and Central Valley (44.81 GC/L). While overall concentrations vary widely, most sites continue to trend downward.

Plant Name	City	Time frame	5 Sample Rolling Mean	14 Day Trend	Last Sampling Dates
Flamingo Water Resource Center	Las Vegas, NV	Current	46.83	↓	November 19 2025
Mesquite Wastewater Treatment Plant	City of Mesquite, NV	Current	32.53	↓	November 20 2025
Boulder Wastewater Treatment Plant	Boulder City, NV	Current	2,968.71	↑	November 19 2025
A.K. Warren Water Resource Facility	Los Angeles County, CA	Current	8.33	↓	November 19 2025
Hyperion Water Reclamation Plant (HWRP)	Los Angeles, CA	Current	8.66	↓	November 19 2025
Central Valley Water Reclamation Facility	Central Salt Lake Valley, UT	Current	44.81	↑	November 19 2025
Provo City Water Reclamation Facility	Provo, UT	Current	77.50	↓	November 19 2025
Regional Water Recycling Plant No.1 (RP-1)	Ontario, CA	Current	23.93	↓	November 20 2025
Riverside Water Quality Control Plant	Riverside, CA	Current	9.73	↓	November 20 2025
Valley Sanitary District	Indio, CA	Current	9.01	↓	November 20 2025

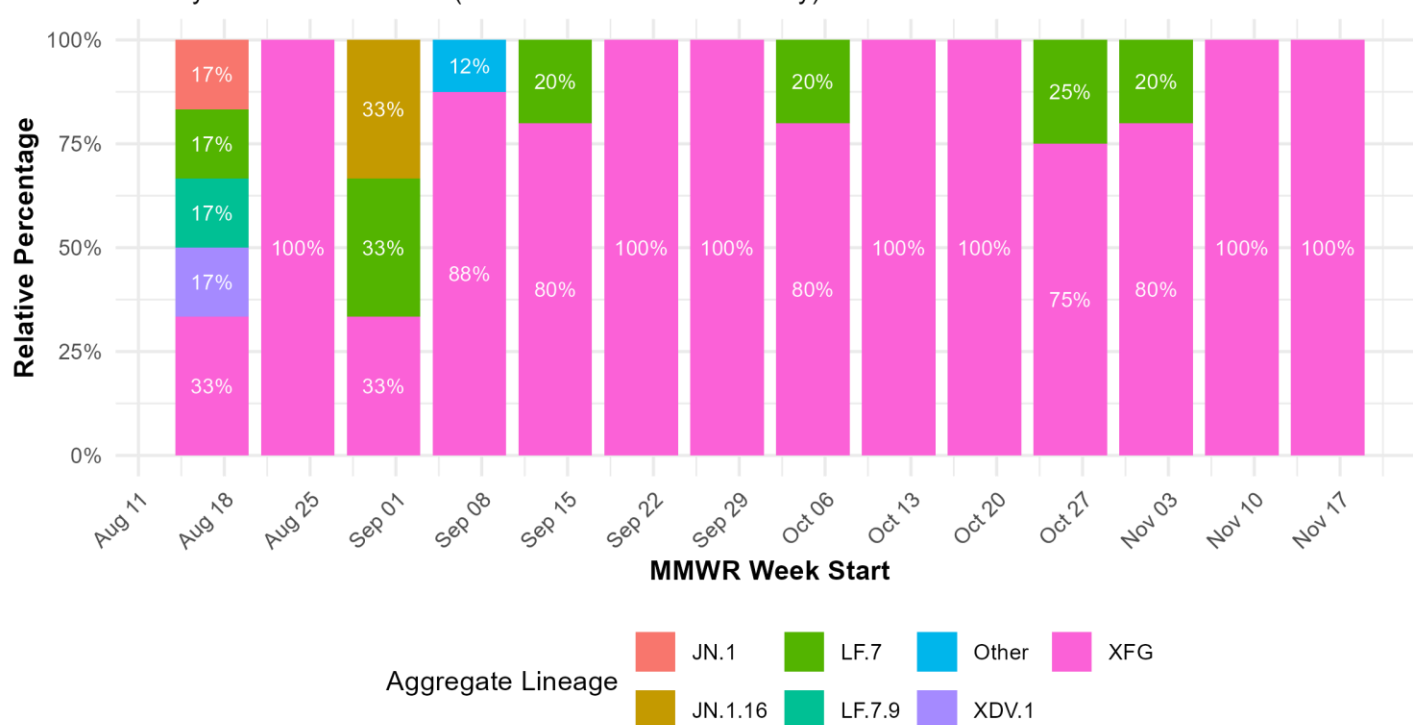
SARS-CoV-2 Variants Circulating

Flamingo Water Reclamation District Plant

The chart shows weekly changes in viral composition from August 11 to November 17. During this period, SARS-CoV-2 lineage proportions shift from early diversity to sustained dominance by lineage XFG. In mid-August, five lineages each account for 16.7–33.3% of detections. By August 24, XFG rises to 100% and remains the primary lineage for most subsequent weeks. Brief diversification occurs on August 31 and September 7, when JN.1.16, LF.7, and “Other” lineages appear at 12–33%. From mid-September onward, XFG consistently represents 75–100% of detections, with only occasional minor contributions from LF.7.

Aggregate Lineages: Flamingo Clark County NV (Aug 15–Nov 30, 2025)

Weekly relative abundance (MMWR week start = Sunday)



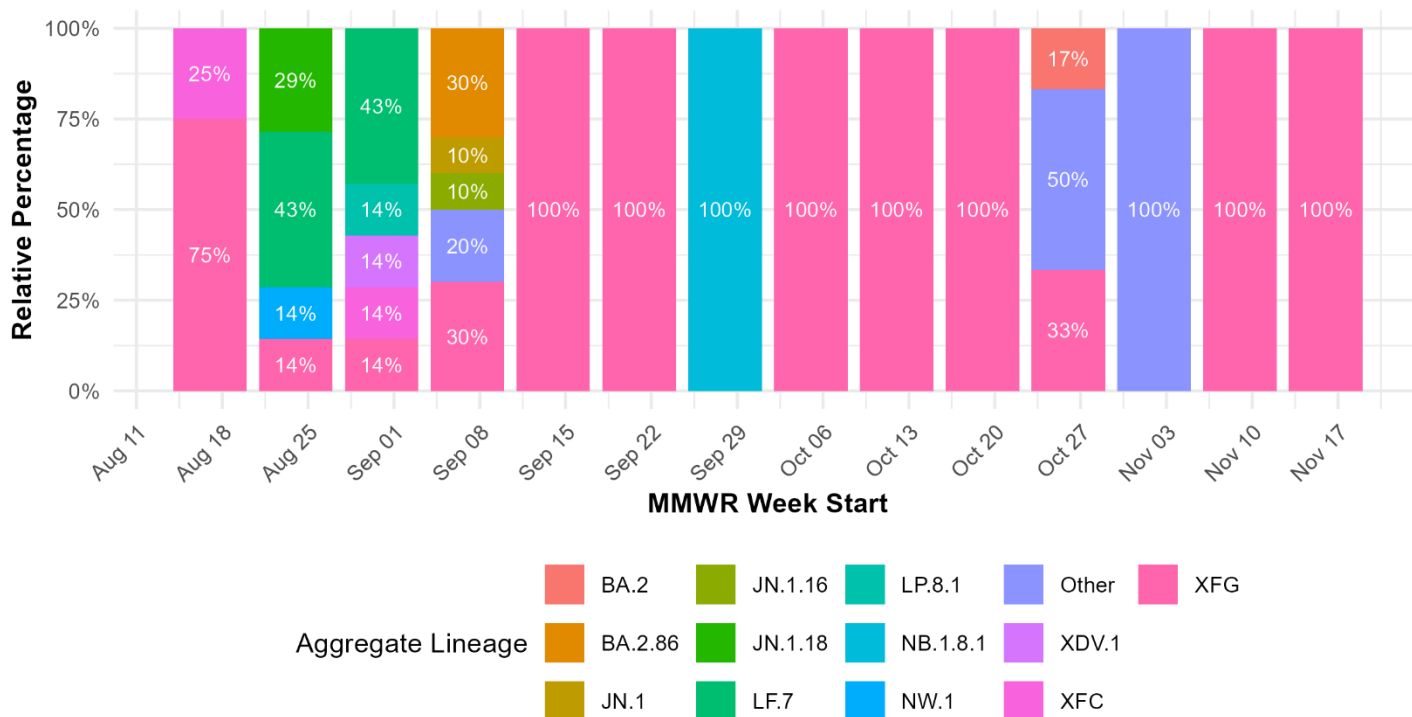
Source: Nevada State Health Department | Analyzed by Verily, Nov 2025
Data through Nov 20, 2025

Mesquite Wastewater Treatment Plant

The chart illustrates the SARS-CoV-2 lineage groups detected in Mesquite wastewater from August 17 through November 16, 2025. Wastewater data show an initial period of substantial lineage diversity followed by a shift to strong single-lineage dominance. Mid-August detections are led by XFC (25%) and XFG (75%). By August 24 and 31, multiple lineages including JN.1.18, LF.7, NW.1, XDV.1, LP.8.1, and XFC circulate at 10–43%. Early September remains mixed with BA.2.86, JN.1, JN.1.16, and other lineages present. Beginning September 14, XFG or NB.1.8.1 dominate entirely, and after brief late-October diversification, XFG returns to complete dominance by mid-November.

Aggregate Lineages: City of Mesquite NV (Aug 15–Nov 30, 2025)

Weekly relative abundance (MMWR week start = Sunday)



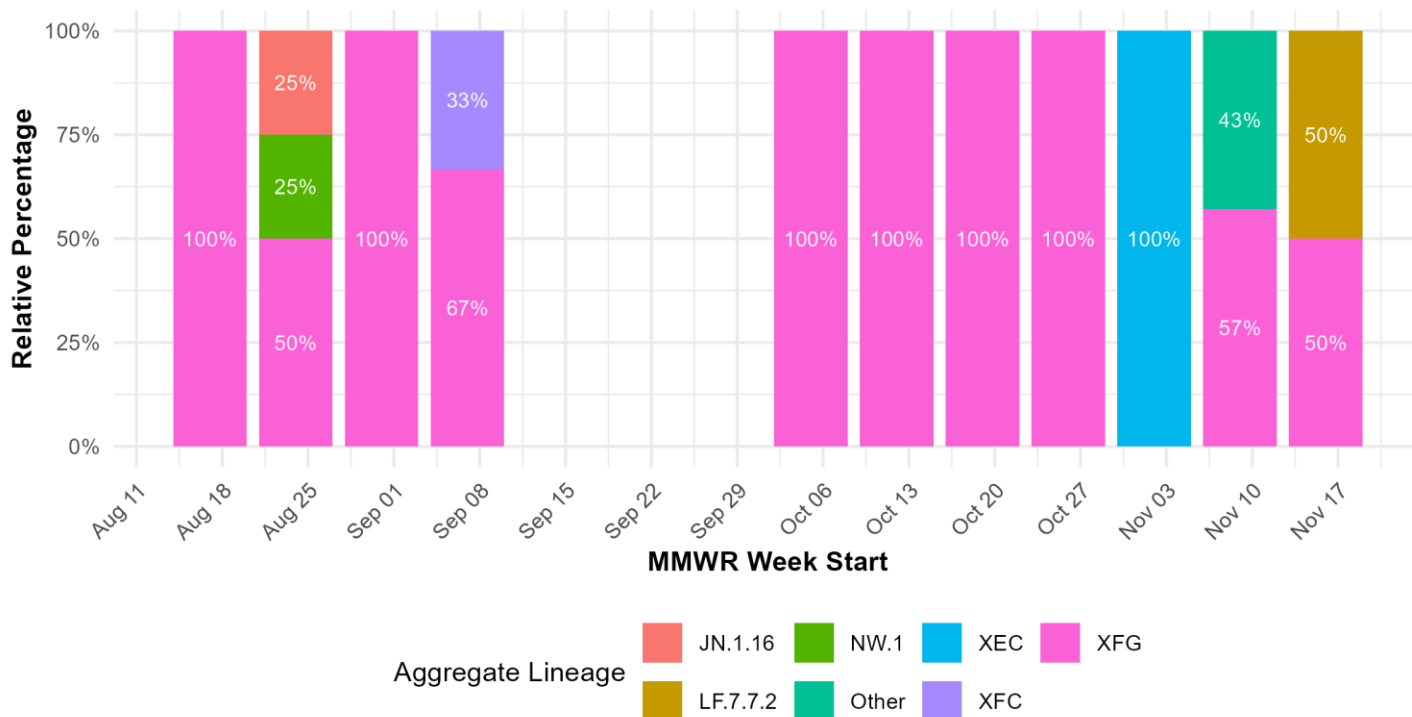
Source: Nevada State Health Department | Analyzed by Verily, Nov 2025
Data through Nov 20, 2025

Boulder City Wastewater Treatment Plant

The chart shows SARS-CoV-2 lineages detected in Boulder City wastewater From August 17 to November 16, 2025, SARS-CoV-2 lineage patterns in Boulder wastewater show strong dominance by XFG with intermittent brief appearances of other lineages. XFG begins at 100% on August 17, then shares the week of August 24 with JN.1.16 (25%) and NW.1 (25%), while XFG holds 50%. It returns to 100% on August 31. On September 7, XFG represents 66.7% and XFC 33.3%. XFG again reaches 100% from October 5 through October 26. November 2 features XEC at 100%. On November 9, XFG accounts for 57.1% and Other for 42.9%. November 16 shows LF.7.7.2 and XFG each at 50%.

Aggregate Lineages: City of Boulder City NV (Aug 15–Nov 30, 2025)

Weekly relative abundance (MMWR week start = Sunday)



Source: Nevada State Health Department | Analyzed by Verily, Nov 2025
Data through Nov 20, 2025

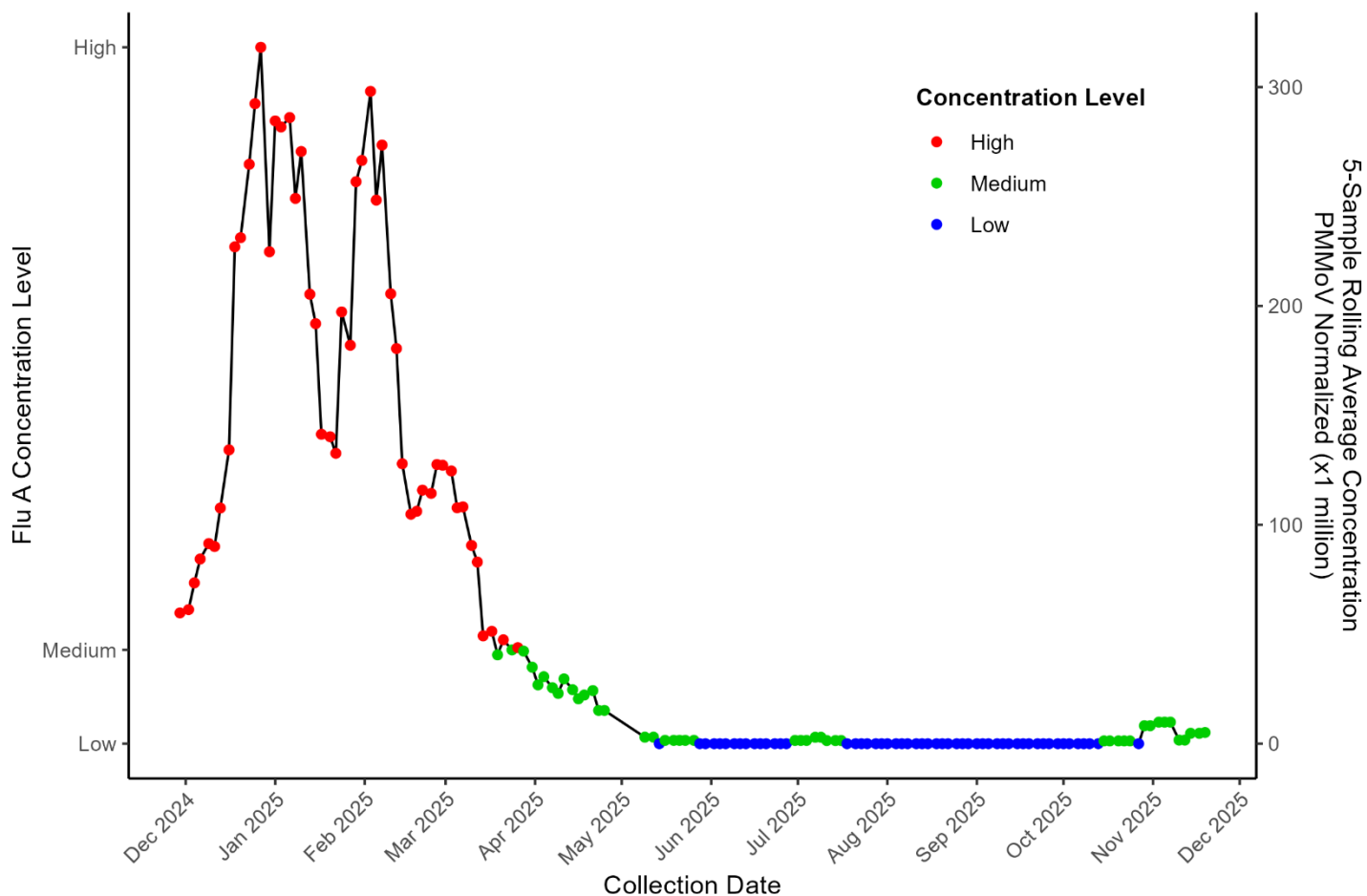
Note: Data for the weeks of September 15, 22, and 29, 2025, were missing and are not represented in the dataset.

Influenza A Viral Concentration Trends in Clark County

Flamingo Water Reclamation District Plant

The chart illustrates Influenza A (Flu A) 5- Sample rolling average concentrations in wastewater from the Flamingo Water Reclamation District in Clark County, spanning December 2024 through November 19, 2025. Concentrations began to rise in December and January 2025 at high levels. Levels gradually declined through February and March, shifting from high to medium concentrations and stabilizing by May. From June onward, concentrations decreased from medium to consistently low levels, with a slight return to medium levels in Early-November. The most recent sample, collected on November 19, 2025, confirmed moderate Influenza A activity.

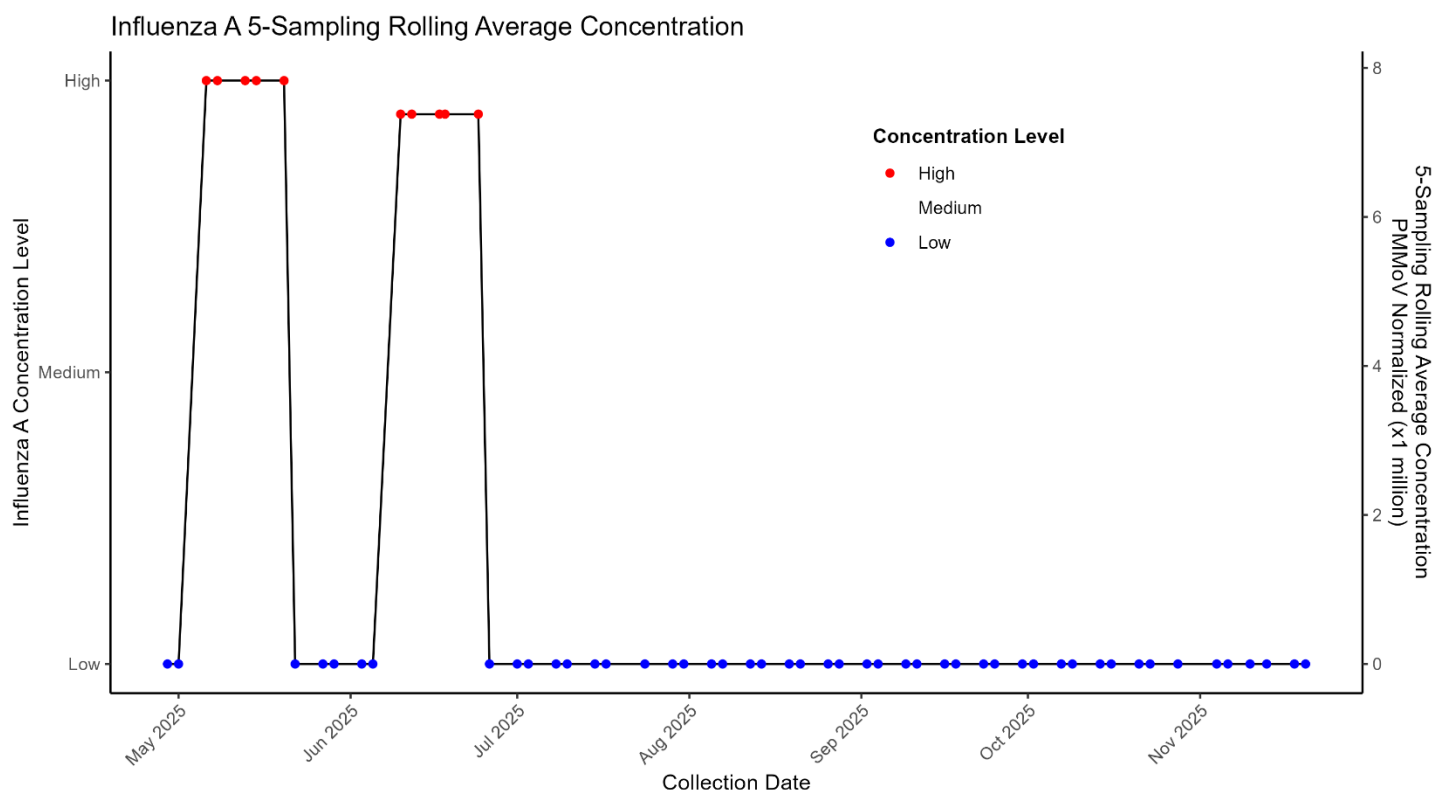
Influenza A (Flu A) 5-Sample Rolling Average Concentration



Data Source: WastewaterScan.org
 Sampling Location: Clark County Water Reclamation District, Flamingo Water Resource Center
 Last Sampling Date: 2025-11-19

City of Mesquite Wastewater Treatment Plant

The chart shows Influenza A concentrations in wastewater from the City of Mesquite, NV, between May and November 20, 2025, based on a 5-sample rolling average normalized to PMMoV. Levels were mostly low (blue) throughout the monitoring period, with two brief high spikes (red) in May and June. These peaks quickly subsided, returning concentrations to low levels by early July. From July through October, values remained consistently low, with no medium-level signals detected. The most recent sample, collected on November 20, 2025, confirms that Influenza A activity in wastewater is currently minimal following earlier isolated surges.



Data Source: State Data from Verily
 Sampling Location: City of Mesquite wastewater treatment plant
 Last Sampling Date: 11/20/25

Interpretation of Influenza A Concentrations

As of November 20, 2025, wastewater data across Nevada, California, and Utah shows mostly low or stable Influenza A levels. Several facilities report modest concentrations, including Flamingo (5.11, declining), Boulder City (41.32, stable), A.K. Warren (1.58, rising), Hyperion (4.35, stable), Central Valley (8.17, stable), Provo City (13.68, rising), RP-1 (1.93, stable), and Valley Sanitary District (1.12, stable). Mesquite and Riverside report 0.00. Recent samples were collected November 19–20, 2025.

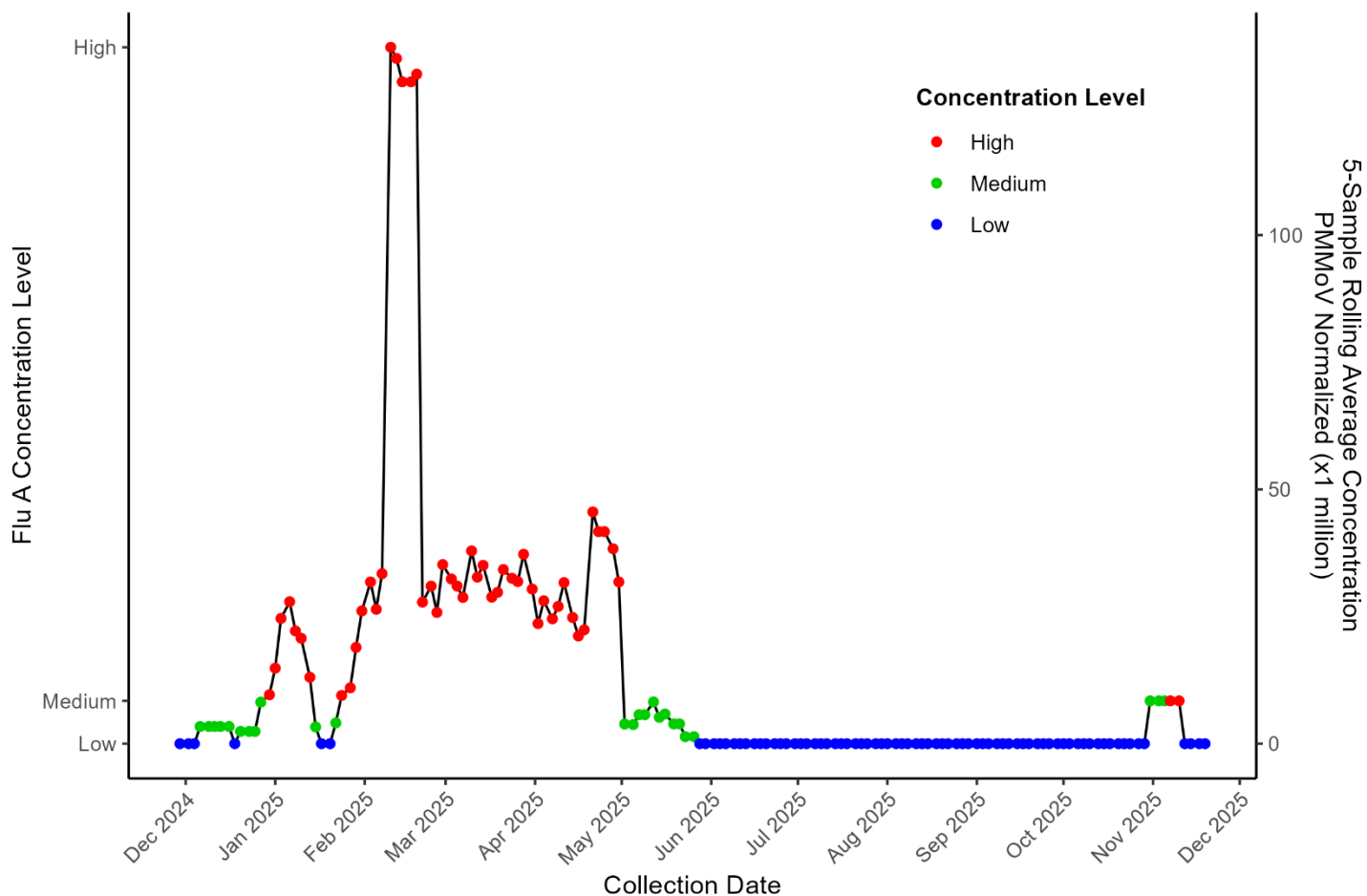
Plant Name	City	Time frame	5 Sample Rolling Mean	14 Day Trend	Last Sampling Dates
Flamingo Water Resource Center	Las Vegas, NV	Current	5.11	↓	November 19 2025
Mesquite Wastewater Treatment Plant	City of Mesquite, NV	Current	0.00	→	November 20 2025
Boulder Wastewater Treatment Plant	Boulder City, NV	Current	41.32	→	November 19 2025
A.K. Warren Water Resource Facility	Los Angeles County, CA	Current	1.58	↑	November 19 2025
Hyperion Water Reclamation Plant (HWRP)	Los Angeles, CA	Current	4.35	→	November 19 2025
Central Valley Water Reclamation Facility	Central Salt Lake Valley, UT	Current	8.17	→	November 19 2025
Provo City Water Reclamation Facility	Provo, UT	Current	13.68	↑	November 19 2025
Regional Water Recycling Plant No.1 (RP-1)	Ontario, CA	Current	1.93	→	November 20 2025
Riverside Water Quality Control Plant	Riverside, CA	Current	0.00	→	November 20 2025
Valley Sanitary District	Indio, CA	Current	1.12	→	November 20 2025

Influenza B Viral Concentration Trends in Clark County

Flamingo Water Reclamation District Plant

The chart shows Influenza B wastewater trends at the Flamingo Water Resource Center in Las Vegas, NV, from November 2024 through November 19, 2025. Levels remained low through late 2024, with a brief moderate increase in mid-December. A sharp rise began in early January 2025, leading to a pronounced peak in March marked by sustained high concentrations. Moderate but elevated activity continued through April and May before declining rapidly in June. From mid-summer through October, concentrations stayed consistently low or undetectable. In early November 2025, levels briefly rose to high concentrations before dropping back to low. The latest sample was collected on November 19, 2025.

Influenza B (Flu B) 5-Sample Rolling Average Concentration



Data Source: WastewaterScan.org
 Sampling Location: Clark County Water Reclamation District, Flamingo Water Resource Center
 Last Sampling Date: 2025-11-19

Interpretation of Influenza B Concentrations

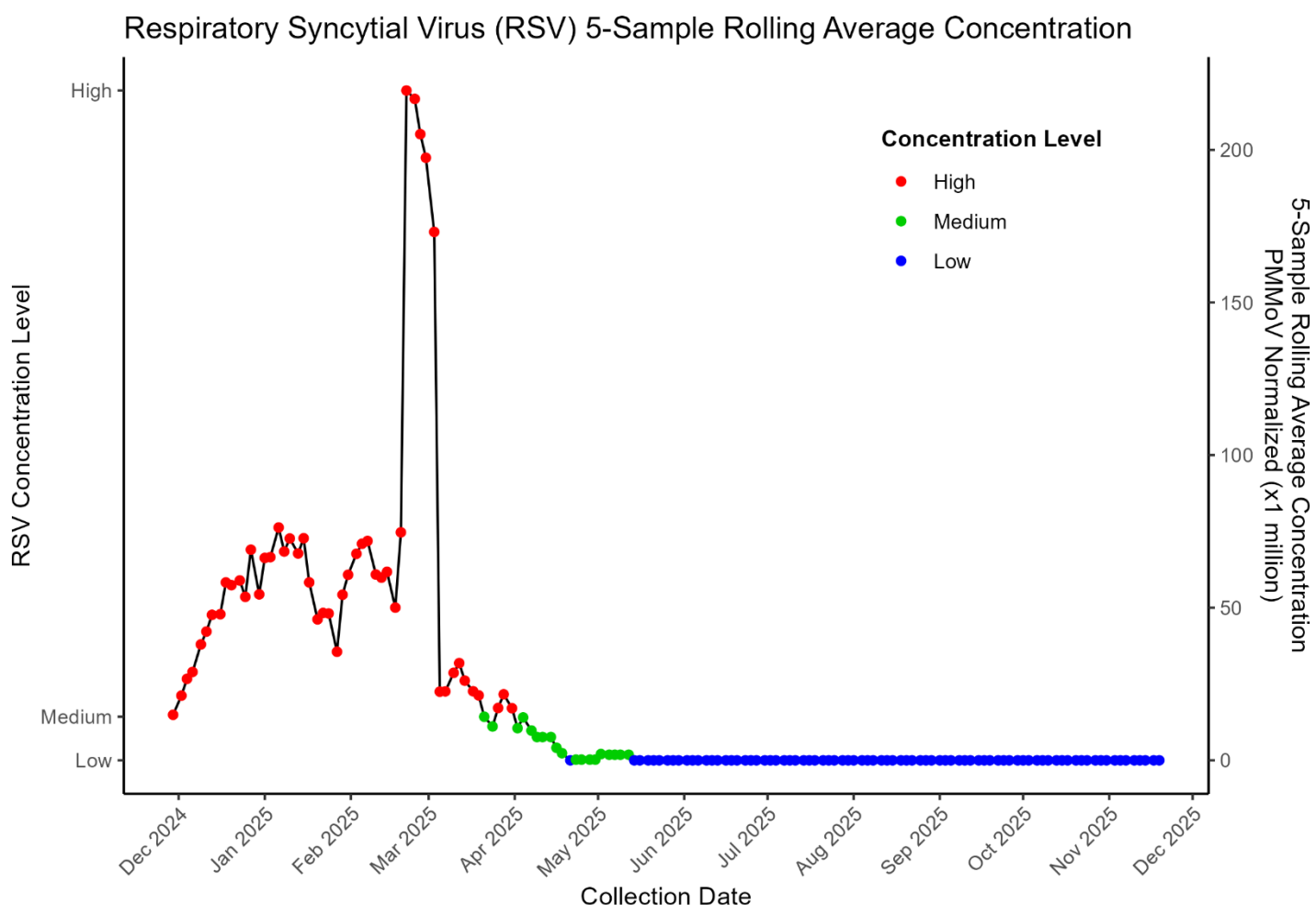
As of November 20, 2025, wastewater surveillance for Influenza B across Nevada, California, and Utah shows very low or undetectable levels (gc/L) at nearly all monitored facilities. Most sites report 0.00 with stable trends, while Central Valley shows a small but declining concentration of 3.02. Mesquite and Boulder City also report 0.00. Recent samples were collected between November 19–20, 2025.

Plant Name	City	Time frame	5 Sample Rolling Mean	14 Day Trend	Last Sampling Dates
Flamingo Water Resource Center	Las Vegas, NV	Current	0.00	→	November 19 2025
Mesquite Wastewater Treatment Plant	City of Mesquite, NV	Current	0.00	→	November 20 2025
Boulder Wastewater Treatment Plant	Boulder City, NV	Current	0.00	→	November 19 2025
A.K. Warren Water Resource Facility	Los Angeles County, CA	Current	0.00	→	November 19 2025
Hyperion Water Reclamation Plant (HWRP)	Los Angeles, CA	Current	0.00	→	November 19 2025
Central Valley Water Reclamation Facility	Central Salt Lake Valley, UT	Current	3.02	↓	November 19 2025
Provo City Water Reclamation Facility	Provo, UT	Current	0.00	→	November 19 2025
Regional Water Recycling Plant No.1 (RP-1)	Ontario, CA	Current	0.00	→	November 20 2025
Riverside Water Quality Control Plant	Riverside, CA	Current	0.00	→	November 20 2025
Valley Sanitary District	Indio, CA	Current	0.00	→	November 20 2025

Respiratory Syncytial Virus (RSV) Viral Concentration Trends in Clark County

Flamingo Water Reclamation District Plant

The chart shows Respiratory Syncytial Virus (RSV) levels at the Clark County Water Reclamation District (Flamingo site) from December 2024 through November 19, 2025. RSV concentrations remained low through October 2024, began rising in December 2024, and peaked sharply in February 2025. Levels declined through April 2025 and returned to low by June 2025, remaining low through late October 2025. Data was normalized using PMMoV, with the last sampling recorded on November 19, 2025.



Data Source: WastewaterScan.org
 Sampling Location: Clark County Water Reclamation District, Flamingo Water Resource Center
 Last Sampling Date: 2025-11-19

Respiratory Syncytial Virus (RSV) Concentrations Interpretation

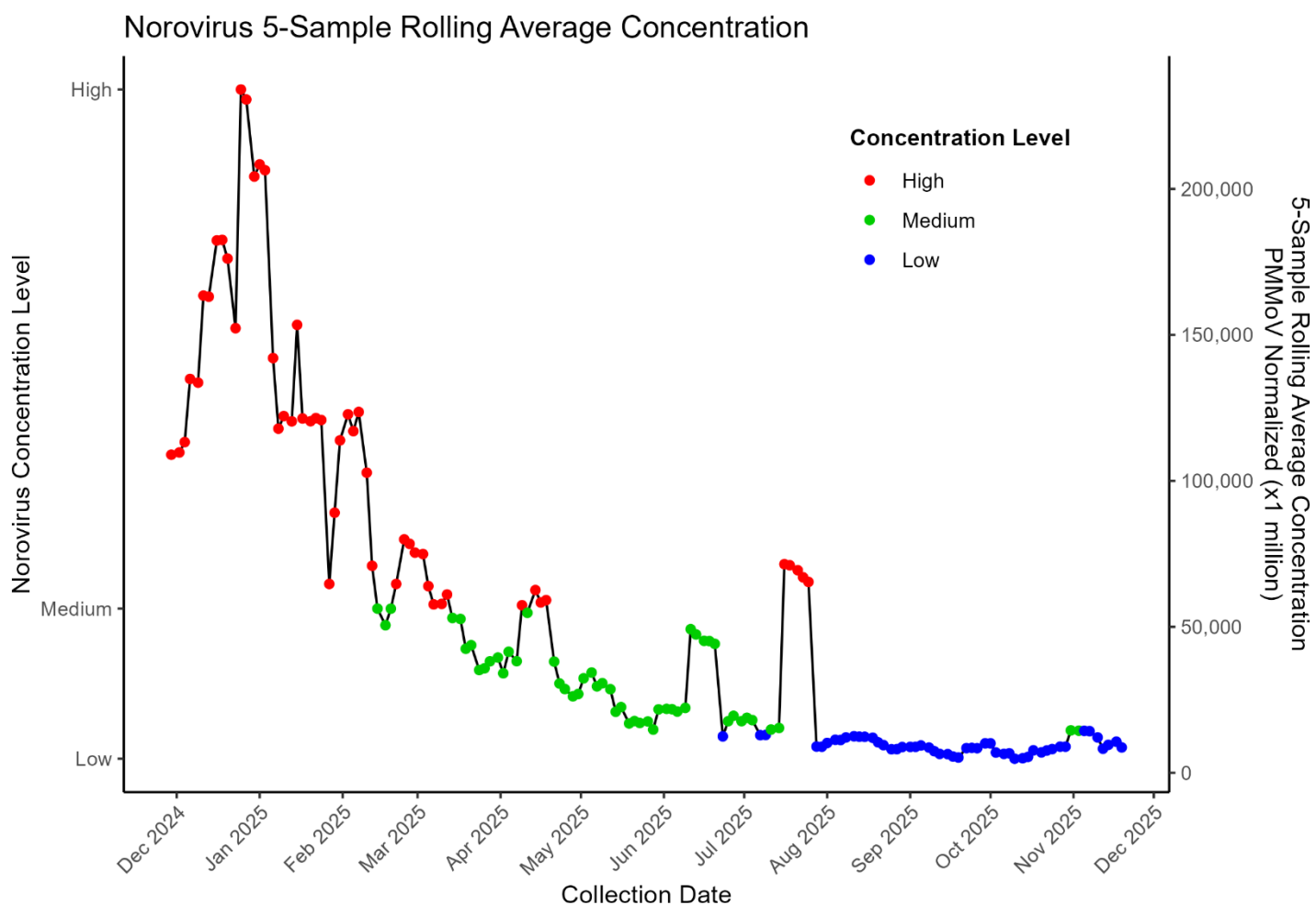
As of November 20, 2025, wastewater surveillance for Respiratory Syncytial Virus (RSV) across Nevada, California, and Utah shows uniformly low or undetectable concentrations (gc/L) at nearly all monitored facilities. Most sites report 0.00 with stable trends, while A.K. Warren (0.98), Central Valley (0.32), and RP-1 (1.12) show minimal but steady levels. Mesquite and Boulder City also report 0.00. Recent samples were collected between November 19–20, 2025.

Plant Name	City	Time frame	5 Sample Rolling Mean	14 Day Trend	Last Sampling Dates
Flamingo Water Resource Center	Las Vegas, NV	Current	0.00	→	November 19 2025
Mesquite Wastewater Treatment Plant	City of Mesquite, NV	Current	0.00	→	November 20 2025
Boulder Wastewater Treatment Plant	Boulder City, NV	Current	0.00	→	November 19 2025
A.K. Warren Water Resource Facility	Los Angeles County, CA	Current	0.98	→	November 19 2025
Hyperion Water Reclamation Plant (HWRP)	Los Angeles, CA	Current	0.00	→	November 19 2025
Central Valley Water Reclamation Facility	Central Salt Lake Valley, UT	Current	0.32	→	November 19 2025
Provo City Water Reclamation Facility	Provo, UT	Current	0.00	→	November 19 2025
Regional Water Recycling Plant No.1 (RP-1)	Ontario, CA	Current	1.12	→	November 20 2025
Riverside Water Quality Control Plant	Riverside, CA	Current	0.00	→	November 20 2025
Valley Sanitary District	Indio, CA	Current	0.00	→	November 20 2025

Norovirus Viral Concentration Trends in Clark County

Flamingo Water Reclamation District Plant

The chart shows Norovirus 5- Sample rolling average concentrations in wastewater from the Flamingo Water Reclamation District in Clark County from December 2024 through November 19, 2025. Concentrations rose sharply at high levels in December and January 2025, before gradually declining through spring. Moderate activity persisted from February to April, followed by a steady drop to low levels by May. Brief spikes were observed in July 2025, but concentrations remained low from September onward. Overall, the data indicate strong Norovirus activity in late 2024 to early 2025, with reduced circulation later in the year.



Data Source: WastewaterScan.org
 Sampling Location: Clark County Water Reclamation District, Flamingo Water Resource Center
 Last Sampling Date: 11/19/25

Interpretation of Norovirus Concentrations

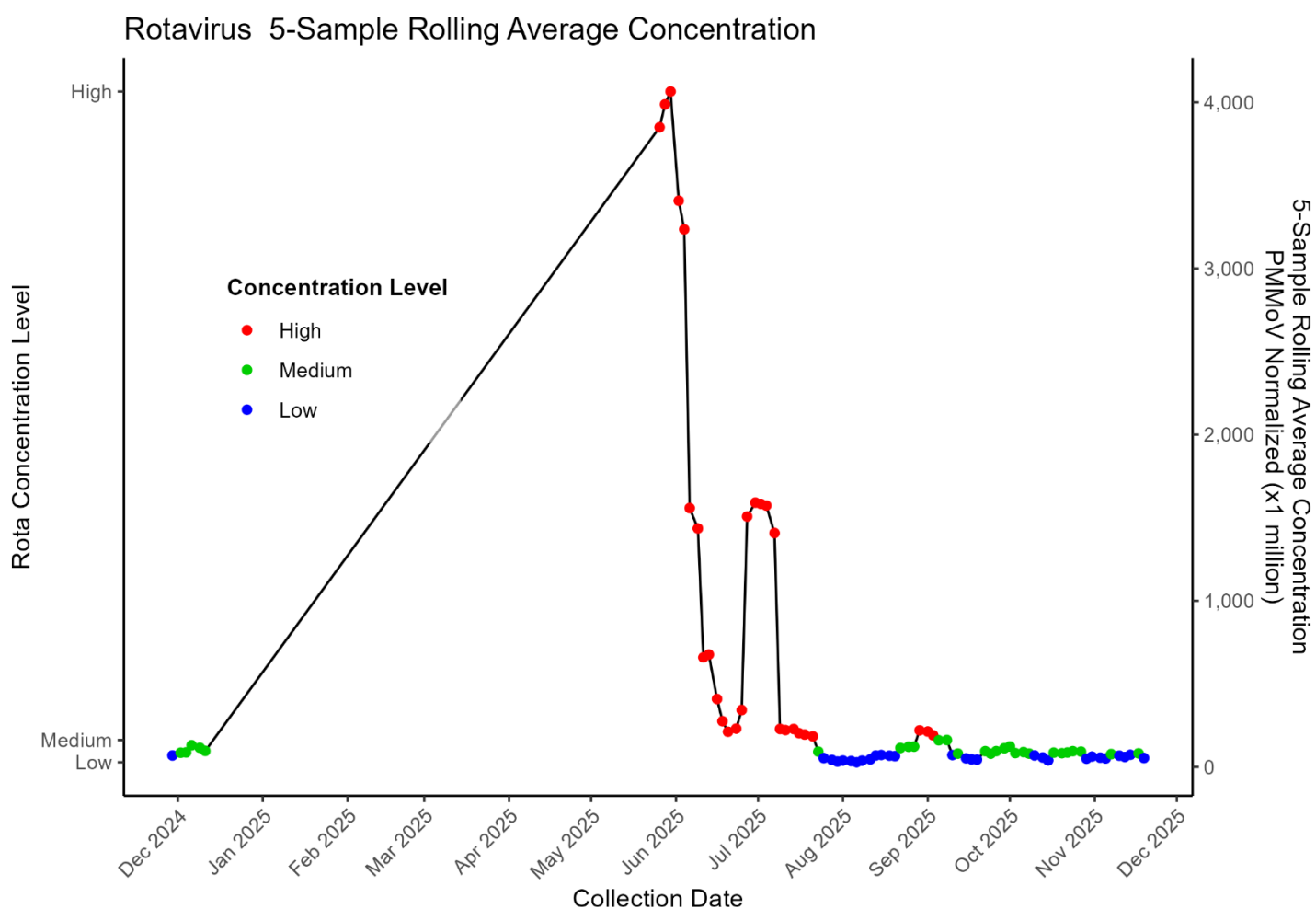
As of November 20, 2025, wastewater surveillance across Nevada, California, and Utah shows mixed Norovirus activity, with several facilities reporting notable concentrations. Rising signals are observed at A.K. Warren (4,959.18), Hyperion (9,814.10), Central Valley (14,836.37), Provo City (12,657.23), RP-1 (6,047.09), Riverside (4,721.35), and Valley Sanitary District (3,306.73). Flamingo reports a high but declining concentration of 8,698.91. Mesquite and Boulder City were not tested.

Plant Name	City	Time frame	5 Sample Rolling Mean	14 Day Trend	Last Sampling Dates
Flamingo Water Resource Center	Las Vegas, NV	Current	8,698.91	↓	November 19 2025
Mesquite Wastewater Treatment Plant	City of Mesquite, NV	Current	Not Tested		November 20 2025
Boulder Wastewater Treatment Plant	Boulder City, NV	Current	Not Tested		November 19 2025
A.K. Warren Water Resource Facility	Los Angeles County, CA	Current	4,959.18	↑	November 19 2025
Hyperion Water Reclamation Plant (HWRP)	Los Angeles, CA	Current	9,814.10	↑	November 19 2025
Central Valley Water Reclamation Facility	Central Salt Lake Valley, UT	Current	14,836.37	↑	November 19 2025
Provo City Water Reclamation Facility	Provo, UT	Current	12,657.23	↑	November 19 2025
Regional Water Recycling Plant No.1 (RP-1)	Ontario, CA	Current	6,047.09	↑	November 20 2025
Riverside Water Quality Control Plant	Riverside, CA	Current	4,721.35	↑	November 20 2025
Valley Sanitary District	Indio, CA	Current	3,306.73	↑	November 20 2025

Rotavirus Viral Concentration Trends in Clark County

Flamingo Water Reclamation District Plant

The chart presents Rotavirus 5-sample rolling average concentrations in wastewater from the Flamingo Water Reclamation District (Clark County, NV) from December 2024 through November 19, 2025. Levels were low to medium through late 2024 and early January 2025. A sharp and sustained rise began in mid-January, peaking in March–April at the highest concentrations recorded. Levels declined rapidly in May, followed by two smaller resurgences in June and July. By August, concentrations returned to low levels and remained consistently low from late summer through November 2025, indicating minimal ongoing viral circulation. The final sampling date was November 19, 2025.



Data Source: WastewaterScan.org
 Sampling Location: Clark County Water Reclamation District, Flamingo Water Resource Center
 Last Sampling Date: 2025-11-19

Interpretation of Rotavirus Concentrations

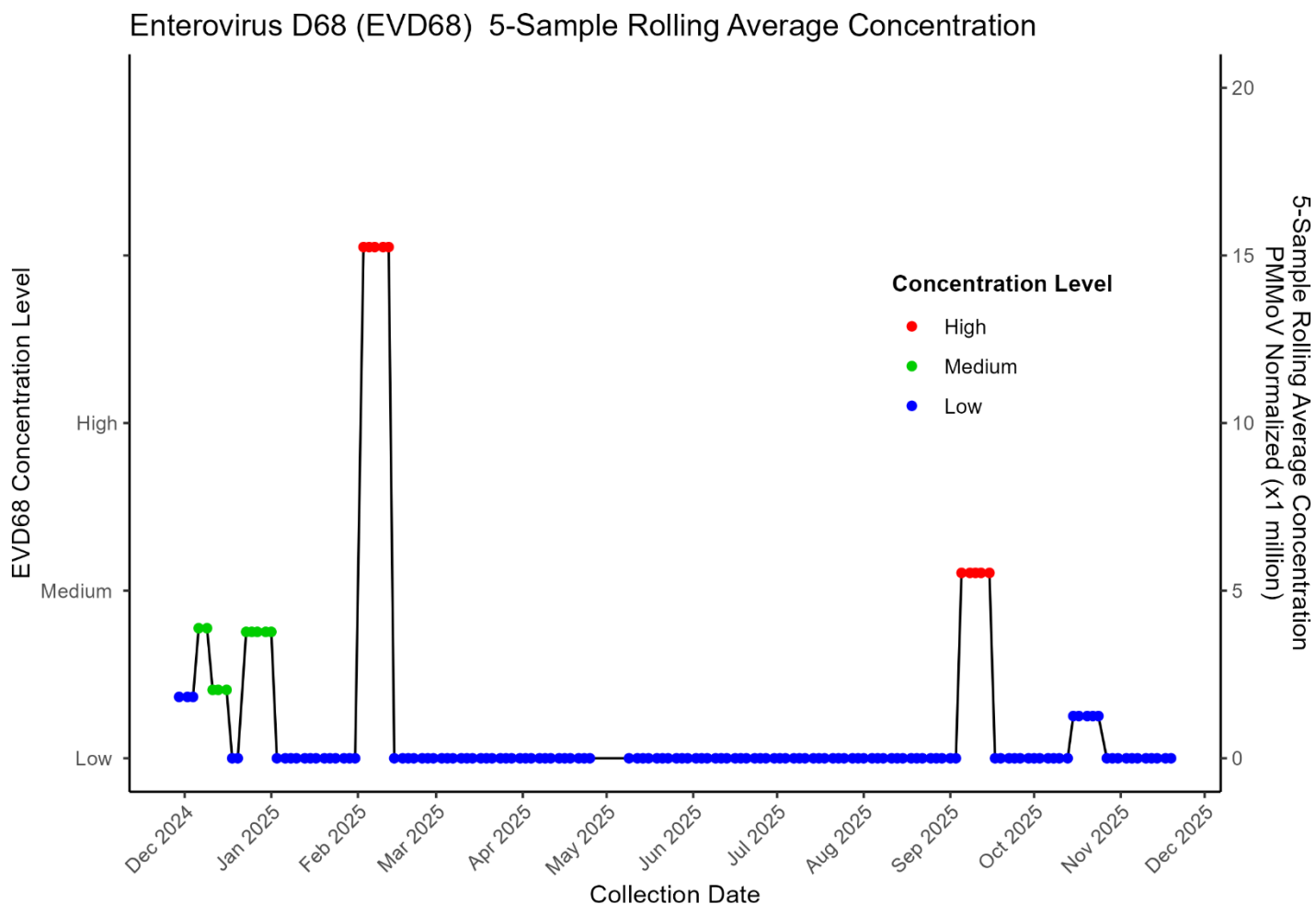
As of November 20, 2025, Rotavirus wastewater concentrations across Nevada, California, and Utah show mixed activity, with several facilities exhibiting increasing signals. Rising concentrations are observed at A.K. Warren (36.04), Central Valley (41.06), Provo City (122.07), RP-1 (24.57), and Valley Sanitary District (6.46). Declines are reported at Flamingo (53.48), Hyperion (20.21), and Riverside (16.89). Mesquite and Boulder City were not tested.

Plant Name	City	Time frame	5 Sample Rolling Mean	14 Day Trend	Last Sampling Dates
Flamingo Water Resource Center	Las Vegas, NV	Current	53.48	↓	November 19 2025
Mesquite Wastewater Treatment Plant	City of Mesquite, NV	Current	Not Tested		November 20 2025
Boulder Wastewater Treatment Plant	Boulder City, NV	Current	Not Tested		November 19 2025
A.K. Warren Water Resource Facility	Los Angeles County, CA	Current	36.04	↑	November 19 2025
Hyperion Water Reclamation Plant (HWRP)	Los Angeles, CA	Current	20.21	↓	November 19 2025
Central Valley Water Reclamation Facility	Central Salt Lake Valley, UT	Current	41.06	↑	November 19 2025
Provo City Water Reclamation Facility	Provo, UT	Current	122.07	↑	November 19 2025
Regional Water Recycling Plant No.1 (RP-1)	Ontario, CA	Current	24.57	↑	November 20 2025
Riverside Water Quality Control Plant	Riverside, CA	Current	16.89	↓	November 20 2025
Valley Sanitary District	Indio, CA	Current	6.46	↑	November 20 2025

Enterovirus D68 Viral Concentration Trends in Clark County

Flamingo Water Reclamation District Plant

The chart presents *Enterovirus D68* (EVD68) concentrations in wastewater at the Flamingo Water Reclamation District in Clark County fluctuated between December 2024 through November 19, 2025. Sharp peak occurred in February 2025. From March through early September 2025, levels declined and remained low. A brief resurgence was observed around September 10, followed by a return to low concentrations in early October. These patterns suggest seasonal variation and highlight the value of wastewater surveillance.



Data Source: WastewaterScan.org
 Sampling Location: Clark County Water Reclamation District, Flamingo Water Resource Center
 Last Sampling Date: 2025-11-19

Interpretation of *Enterovirus D68* Concentrations

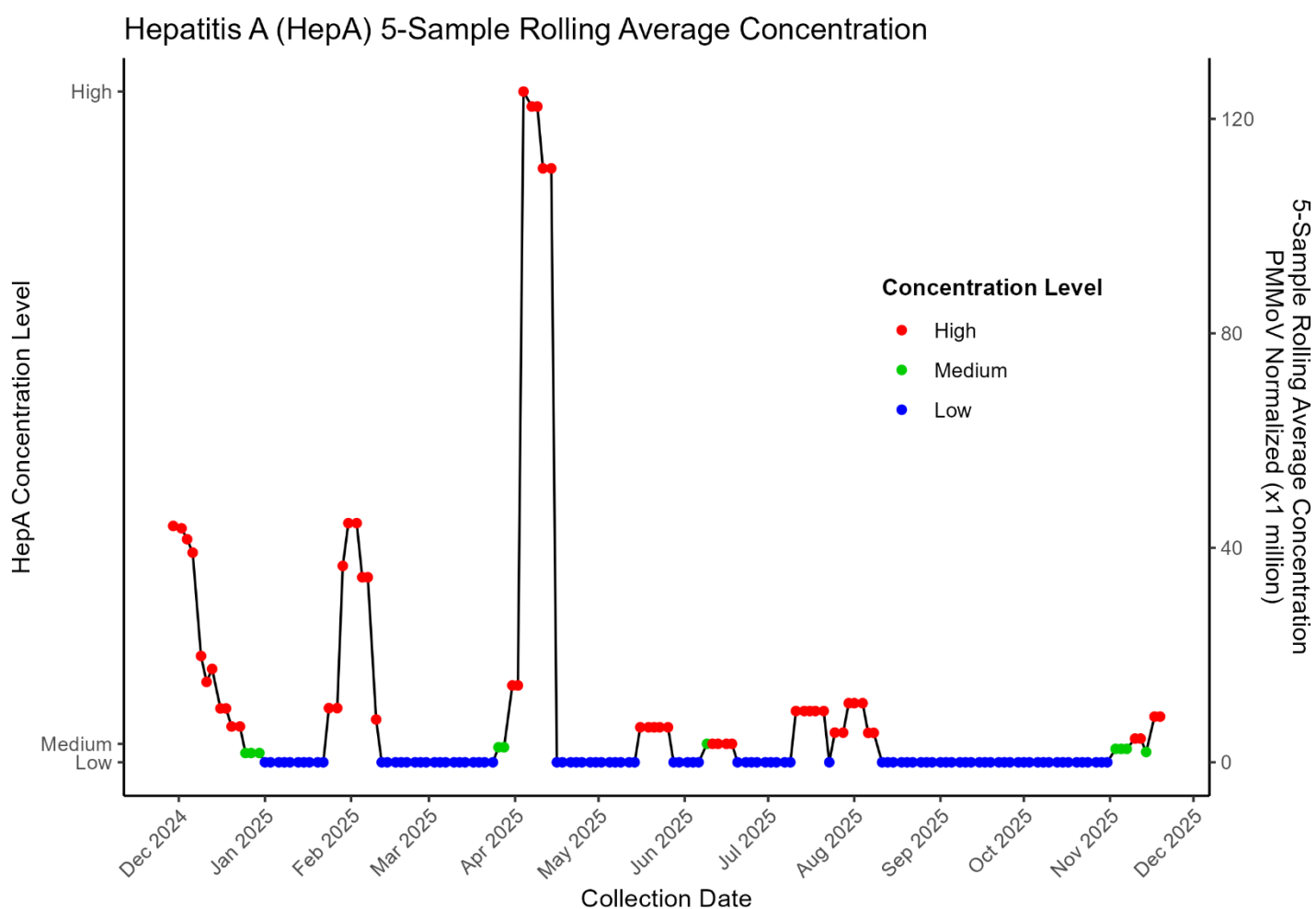
As of November 20, 2025, Enterovirus D68 wastewater surveillance across Nevada, California, and Utah shows low to moderate concentrations with mixed trends. Several facilities report detectable levels, including A.K. Warren (13.41, rising), Hyperion (11.97, rising), RP-1 (15.29, declining), Riverside (17.49, declining), and Valley Sanitary District (3.05, declining). Flamingo, Central Valley, and Provo City report 0.00. Mesquite and Boulder City were not tested.

Plant Name	City	Time frame	5 Sample Rolling Mean	14 Day Trend	Last Sampling Dates
Flamingo Water Resource Center	Las Vegas, NV	Current	0.00	→	November 19 2025
Mesquite Wastewater Treatment Plant	City of Mesquite, NV	Current	Not Tested		November 20 2025
Boulder Wastewater Treatment Plant	Boulder City, NV	Current	Not Tested		November 19 2025
A.K. Warren Water Resource Facility	Los Angeles County, CA	Current	13.41	↑	November 19 2025
Hyperion Water Reclamation Plant (HWRP)	Los Angeles, CA	Current	11.97	↑	November 19 2025
Central Valley Water Reclamation Facility	Central Salt Lake Valley, UT	Current	0.00	→	November 19 2025
Provo City Water Reclamation Facility	Provo, UT	Current	0.00	→	November 19 2025
Regional Water Recycling Plant No.1 (RP-1)	Ontario, CA	Current	15.29	↓	November 20 2025
Riverside Water Quality Control Plant	Riverside, CA	Current	17.49	↓	November 20 2025
Valley Sanitary District	Indio, CA	Current	3.05	↓	November 20 2025

Hepatitis A (HepA) Viral Concentration Trends in Clark County

Flamingo Water Reclamation District Plant

The chart presents the 5-sample rolling average of Hepatitis A (HepA) concentrations in wastewater from the Flamingo Water Reclamation District in Clark County, spanning December 2024 to November 19, 2025. Levels rose sharply in November–December 2024 before dropping to low levels in January. Additional increases occurred in February and April 2025. From May through October, concentrations fluctuated at low to moderate levels, with brief elevations in late May, mid-July, and early August. Levels remained consistently low through September and October. In early November 2025, HepA concentrations climbed again from medium to high. The most recent sample was collected on November 19, 2025.



Data Source: WastewaterScan.org
 Sampling Location: Clark County Water Reclamation District, Flamingo Water Resource Center
 Last Sampling Date: 2025-11-19

Interpretation of Hepatitis A Concentrations

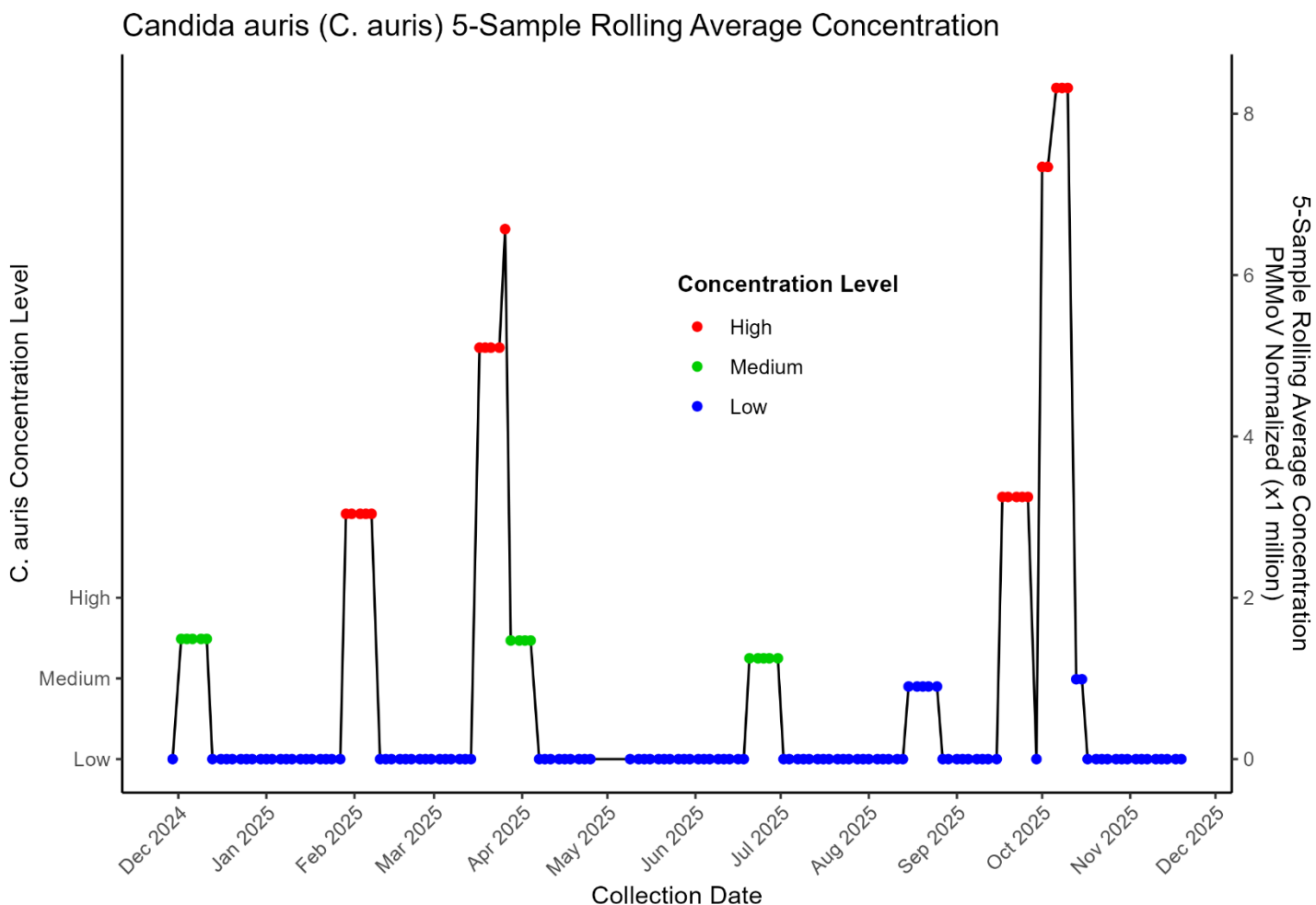
As of November 20, 2025, Hepatitis A wastewater concentrations across Nevada, California, and Utah remain largely low or undetectable. Several facilities report 0.00 levels with stable or declining trends, including Central Valley, Provo City, RP-1, and Valley Sanitary District. However, detectable concentrations are present at Flamingo (8.52, rising), A.K. Warren (3.14, rising), Hyperion (10.97, declining), and Riverside (172.06, stable). Mesquite and Boulder City were not tested.

Plant Name	City	Time frame	5 Sample Rolling Mean	14 Day Trend	Last Sampling Dates
Flamingo Water Resource Center	Las Vegas, NV	Current	8.52	↑	November 19 2025
Mesquite Wastewater Treatment Plant	City of Mesquite, NV	Current	Not Tested		November 20 2025
Boulder Wastewater Treatment Plant	Boulder City, NV	Current	Not Tested		November 19 2025
A.K. Warren Water Resource Facility	Los Angeles County, CA	Current	3.14	↑	November 19 2025
Hyperion Water Reclamation Plant (HWRP)	Los Angeles, CA	Current	10.97	↓	November 19 2025
Central Valley Water Reclamation Facility	Central Salt Lake Valley, UT	Current	0.00	→	November 19 2025
Provo City Water Reclamation Facility	Provo, UT	Current	0.00	→	November 19 2025
Regional Water Recycling Plant No.1 (RP-1)	Ontario, CA	Current	0.00	↓	November 20 2025
Riverside Water Quality Control Plant	Riverside, CA	Current	172.06	→	November 20 2025
Valley Sanitary District	Indio, CA	Current	0.00	→	November 20 2025

Candida Auris Fungal Concentration Trends in Clark County

Flamingo Water Reclamation District Plant

The graph illustrates *Candida auris* (*C. auris*) 5- Sample rolling average concentrations in wastewater at the Flamingo Water Resource Center from December 2024 through November 19, 2025. Concentrations were mostly low or undetectable, with brief medium-level increases in December 2024, March–April, and July 2025. High peaks occurred in October 2024, February 2025, and October 2025, with the mid-October 2025 spike marking the year's highest level before returning to low levels.



Data Source: WastewaterScan.org
 Sampling Location: Clark County Water Reclamation District, Flamingo Water Resource Center
 Last Sampling Date: 2025-11-19

Interpretation of *Candida Auris* Concentrations

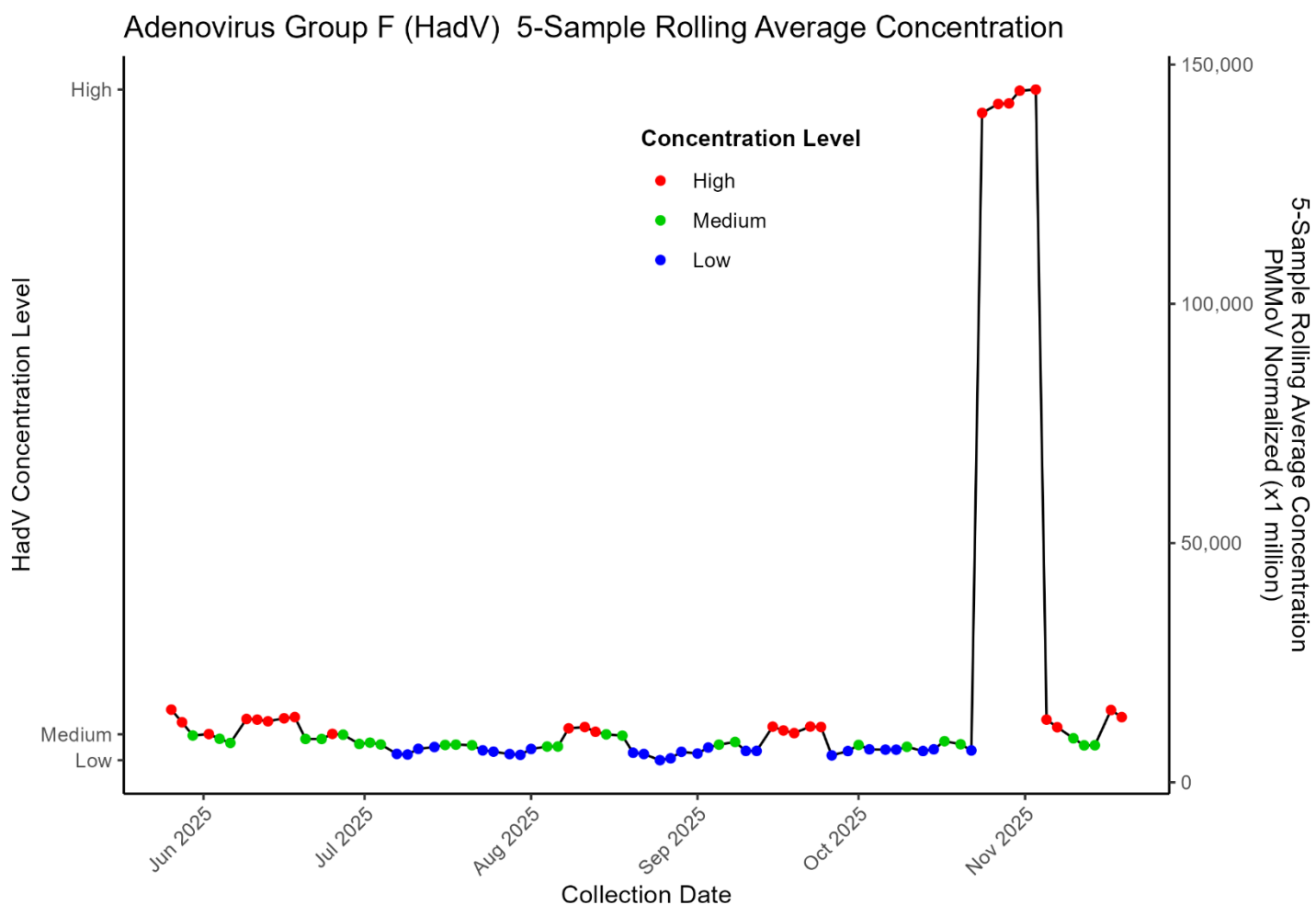
As of November 20, 2025, *Candida auris* wastewater concentrations across Nevada, California, and Utah remain very low or undetectable at nearly all monitored facilities. Most sites report a 5-sample rolling mean of 0.00 with stable trends, and only A.K. Warren shows a minimal level of 0.22. Mesquite and Boulder City were not tested. Recent samples were collected on November 19–20, 2025.

Plant Name	City	Time frame	5 Sample Rolling Mean	14 Day Trend	Last Sampling Dates
Flamingo Water Resource Center	Las Vegas, NV	Current	0.00	➔	November 19 2025
Mesquite Wastewater Treatment Plant	City of Mesquite, NV	Current	Not Tested		November 20 2025
Boulder Wastewater Treatment Plant	Boulder City, NV	Current	Not Tested		November 19 2025
A.K. Warren Water Resource Facility	Los Angeles County, CA	Current	0.22	➔	November 19 2025
Hyperion Water Reclamation Plant (HWRP)	Los Angeles, CA	Current	0.00	➔	November 19 2025
Central Valley Water Reclamation Facility	Central Salt Lake Valley, UT	Current	0.00	➔	November 19 2025
Provo City Water Reclamation Facility	Provo, UT	Current	0.00	➔	November 19 2025
Regional Water Recycling Plant No.1 (RP-1)	Ontario, CA	Current	0.00	➔	November 20 2025
Riverside Water Quality Control Plant	Riverside, CA	Current	0.00	➔	November 20 2025
Valley Sanitary District	Indio, CA	Current	0.00	➔	November 20 2025

Adenovirus Group F Concentration Trends in Clark County

Flamingo Water Reclamation District Plant

The chart shows concentrations of Adenovirus Group F (HAdV) in wastewater from Clark County's Flamingo Water Reclamation District between June and November 19, 2025. Levels were high in early June, then declined to medium and low by late June. July was mostly medium to low. August remained low with a brief increase. September displayed fluctuating activity with several high peaks. In October, concentrations ranged from low to medium, before rising to high; although levels have since declined, they remain elevated. The most recent sample was collected on November 19, 2025.



Data Source: WastewaterScan.org
 Sampling Location: Clark County Water Reclamation District, Flamingo Water Resource Center
 Last Sampling Date: 2025-11-19

Interpretation of Adenovirus Group F Concentrations

As of November 20, 2025, wastewater monitoring for Adenovirus Group F across Nevada, California, and Utah shows elevated concentrations (GC/L) with mixed trends. Flamingo (13,627.16), RP-1 (17,700.65), and Valley Sanitary District (9,201.92) are trending upward. Several facilities show declining concentrations, including A.K. Warren (11,619.52), Hyperion (4,433.33), Central Valley (11,831.12), Provo City (14,063.88), and Riverside (6,087.78). Mesquite and Boulder City were not tested.

Plant Name	City	Time frame	5 Sample Rolling Mean	14 Day Trend	Last Sampling Dates
Flamingo Water Resource Center	Las Vegas, NV	Current	13,627.16	↑	November 19 2025
Mesquite Wastewater Treatment Plant	City of Mesquite, NV	Current	Not Tested		November 20 2025
Boulder Wastewater Treatment Plant	Boulder City, NV	Current	Not Tested		November 19 2025
A.K. Warren Water Resource Facility	Los Angeles County, CA	Current	11,619.52	↓	November 19 2025
Hyperion Water Reclamation Plant (HWRP)	Los Angeles, CA	Current	4,433.33	↓	November 19 2025
Central Valley Water Reclamation Facility	Central Salt Lake Valley, UT	Current	11,831.12	↓	November 19 2025
Provo City Water Reclamation Facility	Provo, UT	Current	14,063.88	↓	November 19 2025
Regional Water Recycling Plant No.1 (RP-1)	Ontario, CA	Current	17,700.65	↑	November 20 2025
Riverside Water Quality Control Plant	Riverside, CA	Current	6,087.78	↓	November 20 2025
Valley Sanitary District	Indio, CA	Current	9,201.92	↑	November 20 2025

Parvovirus Concentrations Interpretation

As of November 20, 2025, wastewater monitoring for Parvovirus (Para) across Nevada, California, and Utah shows generally low concentrations. Most facilities report minimal or stable levels, including A.K. Warren (0.00), Central Valley (0.54), Provo City (0.72), RP-1 (0.00), Valley Sanitary (0.00), and Riverside (1.73). Flamingo Water Resource Center shows a higher rising concentration of 4.48, while Hyperion reports 1.03 with a declining trend. Mesquite and Boulder City were not tested.

Plant Name	City	Time frame	5 Sample Rolling Mean	14 Day Trend	Last Sampling Dates
Flamingo Water Resource Center	Las Vegas, NV	Current	4.48	↑	November 19 2025
Mesquite Wastewater Treatment Plant	City of Mesquite, NV	Current	Not Tested		November 20 2025
Boulder Wastewater Treatment Plant	Boulder City, NV	Current	Not Tested		November 19 2025
A.K. Warren Water Resource Facility	Los Angeles County, CA	Current	0.00	→	November 19 2025
Hyperion Water Reclamation Plant (HWRP)	Los Angeles, CA	Current	1.03	↓	November 19 2025
Central Valley Water Reclamation Facility	Central Salt Lake Valley, UT	Current	0.54	→	November 19 2025
Provo City Water Reclamation Facility	Provo, UT	Current	0.72	→	November 19 2025
Regional Water Recycling Plant No.1 (RP-1)	Ontario, CA	Current	0.00	→	November 20 2025
Riverside Water Quality Control Plant	Riverside, CA	Current	1.73	→	November 20 2025
Valley Sanitary District	Indio, CA	Current	0.00	→	November 20 2025

Human Metapneumovirus Concentrations Interpretation

As of November 20, 2025, wastewater surveillance for Human Metapneumovirus (HMPV) across ten facilities in California, Nevada, and Utah shows no detectable signal. Most sites report a 0.00 rolling mean with stable 14-day trends, and Mesquite and Boulder City were not tested. Recent samples collected on November 19–20 indicate overall stable conditions with no rising trends.

Plant Name	City	Time frame	5 Sample Rolling Mean	14 Day Trend	Last Sampling Dates
Flamingo Water Resource Center	Las Vegas, NV	Current	0.00	➔	November 19 2025
Mesquite Wastewater Treatment Plant	City of Mesquite, NV	Current	Not Tested		November 20 2025
Boulder Wastewater Treatment Plant	Boulder City, NV	Current	Not Tested		November 19 2025
A.K. Warren Water Resource Facility	Los Angeles County, CA	Current	0.50	➔	November 19 2025
Hyperion Water Reclamation Plant (HWRP)	Los Angeles, CA	Current	0.00	➔	November 19 2025
Central Valley Water Reclamation Facility	Central Salt Lake Valley, UT	Current	0.00	➔	November 19 2025
Provo City Water Reclamation Facility	Provo, UT	Current	0.62	➔	November 19 2025
Regional Water Recycling Plant No.1 (RP-1)	Ontario, CA	Current	0.00	➔	November 20 2025
Riverside Water Quality Control Plant	Riverside, CA	Current	0.00	➔	November 20 2025
Valley Sanitary District	Indio, CA	Current	0.00	➔	November 20 2025

Influenza H5 Viral Detection Comparing to Neighboring States

As of November 20, 2025, wastewater surveillance from ten treatment facilities in California, Nevada, and Utah detected no Influenza H5 activity. All sites reported a five-day rolling average of zero with no change in the 14-day trend, indicating stable conditions and no current evidence of Influenza H5.

Plant Name	City	Time frame	5 Sample Rolling Mean	14 Day Trend	Last Sampling Dates
Flamingo Water Resource Center	Las Vegas, NV	Current	0	➔	November 19 2025
Mesquite Wastewater Treatment Plant	City of Mesquite, NV	Current	0	➔	November 20 2025
Boulder Wastewater Treatment Plant	Boulder City, NV	Current	0	➔	November 19 2025
A.K. Warren Water Resource Facility	Los Angeles County, CA	Current	0	➔	November 19 2025
Hyperion Water Reclamation Plant (HWRP)	Los Angeles, CA	Current	0	➔	November 19 2025
Central Valley Water Reclamation Facility	Central Salt Lake Valley, UT	Current	0	➔	November 19 2025
Provo City Water Reclamation Facility	Provo, UT	Current	0	➔	November 19 2025
Regional Water Recycling Plant No.1 (RP-1)	Ontario, CA	Current	0	➔	November 20 2025
Riverside Water Quality Control Plant	Riverside, CA	Current	0	➔	November 20 2025
Valley Sanitary District	Indio, CA	Current	0	➔	November 20 2025

West Nile Virus Viral Detection Comparing to Neighboring States

As of November 20, 2025, wastewater surveillance across ten facilities in California, Nevada, and Utah detected no West Nile virus. All sites with sampling in the past 30 days reported non-detectable levels, indicating no recent viral activity. Mesquite and Boulder City were not tested during this period.

Plant Name	City	Time frame	Detect/ Non-detect	Last Sampling Dates
Flamingo Water Resource Center	Las Vegas, NV	Current	Non-detect	November 19 2025
Mesquite Wastewater Treatment Plant	City of Mesquite, NV	Current	Not Tested	November 20 2025
Boulder Wastewater Treatment Plant	Boulder City, NV	Current	Not Tested	November 19 2025
A.K. Warren Water Resource Facility	Los Angeles County, CA	Current	Non-detect	November 19 2025
Hyperion Water Reclamation Plant (HWRP)	Los Angeles, CA	Current	Non-detect	November 19 2025
Central Valley Water Reclamation Facility	Central Salt Lake Valley, UT	Current	Non-detect	November 19 2025
Provo City Water Reclamation Facility	Provo, UT	Current	Non-detect	November 19 2025
Regional Water Recycling Plant No.1 (RP-1)	Ontario, CA	Current	Non-detect	November 20 2025
Riverside Water Quality Control Plant	Riverside, CA	Current	Non-detect	November 20 2025
Valley Sanitary District	Indio, CA	Current	Non-detect	November 20 2025

MPOX Clade 1b Viral Detection Comparing to Neighboring States

As of November 20, 2025, wastewater surveillance from ten facilities in California, Nevada, and Utah detected no Mpxv clade 1b. Across all sites, monitoring within the past 90 days reported no recent presence. These findings indicate continued absence of detectable Mpxv clade 1b in sampled wastewater across the three states

Plant Name	City	Time frame	Detect/ Non-detect	Last Sampling Dates
Flamingo Water Resource Center	Las Vegas, NV	Current	Non-detect	November 19 2025
Mesquite Wastewater Treatment Plant	City of Mesquite, NV	Current	Non-detect	November 20 2025
Boulder Wastewater Treatment Plant	Boulder City, NV	Current	Non-detect	November 19 2025
A.K. Warren Water Resource Facility	Los Angeles County, CA	Current	Non-detect	November 19 2025
Hyperion Water Reclamation Plant (HWRP)	Los Angeles, CA	Current	Non-detect	November 19 2025
Central Valley Water Reclamation Facility	Central Salt Lake Valley, UT	Current	Non-detect	November 19 2025
Provo City Water Reclamation Facility	Provo, UT	Current	Non-detect	November 19 2025
Regional Water Recycling Plant No.1 (RP-1)	Ontario, CA	Current	Non-detect	November 20 2025
Riverside Water Quality Control Plant	Riverside, CA	Current	Non-detect	November 20 2025
Valley Sanitary District	Indio, CA	Current	Non-detect	November 20 2025

MPOX Clade II Viral Detection Comparing to Neighboring States

As of November 20, 2025, wastewater surveillance from ten facilities across California, Nevada, and Utah detected no Mpx Clade II. All sites reported no detect results.

Plant Name	City	Time frame	Detect/ Non-detect	Last Sampling Dates
Flamingo Water Resource Center	Las Vegas, NV	Current	Non-detect	November 19 2025
Mesquite Wastewater Treatment Plant	City of Mesquite, NV	Current	Non-detect	November 20 2025
Boulder Wastewater Treatment Plant	Boulder City, NV	Current	Non-detect	November 19 2025
A.K. Warren Water Resource Facility	Los Angeles County, CA	Current	Non-detect	November 19 2025
Hyperion Water Reclamation Plant (HWRP)	Los Angeles, CA	Current	Non-detect	November 19 2025
Central Valley Water Reclamation Facility	Central Salt Lake Valley, UT	Current	Non-detect	November 19 2025
Provo City Water Reclamation Facility	Provo, UT	Current	Non-detect	November 19 2025
Regional Water Recycling Plant No.1 (RP-1)	Ontario, CA	Current	Non-detect	November 20 2025
Riverside Water Quality Control Plant	Riverside, CA	Current	Non-detect	November 20 2025
Valley Sanitary District	Indio, CA	Current	Non-detect	November 20 2025

Measles Viral Detection Comparing to Neighboring States

As of November 20, 2025, wastewater monitoring across ten facilities in California, Nevada, and Utah shows non-detect results at all sites.

Plant Name	City	Time frame	Detect/ Non-detect	Last Sampling Dates
Flamingo Water Resource Center	Las Vegas, NV	Current	Non-detect	November 19 2025
Mesquite Wastewater Treatment Plant	City of Mesquite, NV	Current	Non-detect	November 20 2025
Boulder Wastewater Treatment Plant	Boulder City, NV	Current	Non-detect	November 19 2025
A.K. Warren Water Resource Facility	Los Angeles County, CA	Current	Non-detect	November 19 2025
Hyperion Water Reclamation Plant (HWRP)	Los Angeles, CA	Current	Non-detect	November 19 2025
Central Valley Water Reclamation Facility	Central Salt Lake Valley, UT	Current	Non-detect	November 19 2025
Provo City Water Reclamation Facility	Provo, UT	Current	Non-detect	November 19 2025
Regional Water Recycling Plant No.1 (RP-1)	Ontario, CA	Current	Non-detect	November 20 2025
Riverside Water Quality Control Plant	Riverside, CA	Current	Non-detect	November 20 2025
Valley Sanitary District	Indio, CA	Current	Non-detect	November 20 2025

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- 1) Verily Laboratories. *Public health: wastewater-based epidemiology (WBE)*.
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3. Boehm, A. B., Wolfe, M. K., Bidwell, A. L., Zulli, A., Vikram-Chan-Herur, V., White, B. J., Shelden, B., & Duong, D. (2024). *Human pathogen nucleic acids in wastewater solids from 191 wastewater treatment plants in the United States*. *Scientific Data*, 11, 1141.

