

STAFF REPORT



To: Board of Directors

From: Mohammed Serageldin, Lab Manager

Date: September 24th , 2026

Subject: Monthly Lab Report

RECOMMENDATION

Receive Report - Informational only; no action required.

DISCUSSION

1- Sampling

Monitoring and Compliance Sampling Activities Completed	
Monitoring Frequency	Type of Sampling Activity
Weekly	CAWD Sodium Adsorption Ratio (SAR)
Weekly	CAWD NPDES Permit Monitoring
Monthly	Pebble Beach Sodium Adsorption Ratio (SAR) and Total Nitrogen monitoring
Monthly	Central Coast Long-Term Environmental Assessment Network (CCLEAN) monitoring
Monthly	CAWD Total Nitrogen (TN) Monitoring
Every 13 days	NPDES Discharge Monitoring for Oil and Grease

2. General

- The lab received the Ion Chromatography Anion Unit and will organize with Metrohm the installation/training process.
- The lab received the nitrogen/phosphorus digestion unit and will organize with the vendor the installation/training process.
- The Laboratory Manager will attend in person the International Accreditation Service ELAP Symposium (IAS 2006) on September 24th which will be held in Brea, CA.

- The Center of Disease Control and Prevention (CDC) informed us that the new contract will be awarded by late September 2026. As a result, there will be a break in service between the end of the existing contract (September 14, 2026) and the award of the new contract.
- The laboratory successfully passed this year's round of proficiency testing (see below).

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A Waters Company

WP-378 Final Evaluation Report

Mohammed Serageldin
Laboratory Manager
Carmel Area Wastewater District
26900 STATE HIGHWAY 1
Carmel, CA 93923
(402) 215-7659

EPA ID:
ERA Customer Number:
Report Issued:
Study Dates:

CA01130
C061401
09/09/2026
07/20/2026 - 09/03/2026

TNI Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description	Analysis Date	Z Score	Study Mean	Study Standard Deviation	Analyst Name
WP pH (cat# 577, lot# P378-977)												
1900	pH	S.U.	9.21	9.22	9.02 - 9.42	Acceptable	SM 4500-H+ B-2011 2011	7/23/2026	-0.211	9.23	0.0853	Ray De Ocampo
WP Settleable Solids (cat# 883, lot# P378-911)												
1965	Settleable Solids	mL/L	29	33.0	27.2 - 41.7	Acceptable	SM 2540 F-2015 2015	7/27/2026	-2.38	34.3	2.22	Connor Barringer
WP Solids (cat# 241, lot# P378-499)												
1960	Total Suspended Solids	mg/L	66	68.6	55.2 - 77.0	Acceptable	SM 2540 D-2015 2015	7/23/2026	-0.289	66.9	3.16	Connor Barringer
1955	Total Dissolved Solids at 180°C	mg/L	629	637	573 - 701	Acceptable	SM 2540 C-2015 2015	7/28/2026	0.209	624	25.5	Erik Van Duren
1950	Total Solids at 105°C	mg/L		707	636 - 778	Not Reported				711	25.2	
WP Demand (cat# 578, lot# P378-516)												
1530	BOD	mg/L	77.98	71.2	37.7 - 105	Acceptable	SM 5210 B-2016 2016	7/23/2026	0.535	71.1	12.9	Erik Van Duren
1555	CBOD	mg/L	69.3	64.5	29.3 - 99.7	Acceptable	SM 5210 B-2016 2016	8/5/2026	0.219	66.3	13.9	Connor Barringer
1565	COD	mg/L		116	89.8 - 138	Not Reported				115	8.98	
2040	TOC	mg/L		45.9	38.2 - 53.3	Not Reported				45.9	2.50	
WP Turbidity (cat# 893, lot# P378-777)												
2055	Turbidity	NTU	2.80	2.67	1.79 - 3.50	Acceptable	SM 2130 B-2011 2011	7/23/2026	0.466	2.71	0.195	Ray De Ocampo

Final Report - Water Pollution Proficiency Testing

Study: WPM0726

Opening Date: July 21, 2026 - Closing Date: August 6, 2026

Laboratory: Carmel Area Wastewater Dist
26900 STATE HIGHWAY 1
CARMEL, CA 93923
USA

Contact: Dr. Mohammed Kamaleldin Serageldin, Laboratory Manager
4022157659

EPA Lab ID: CA01130

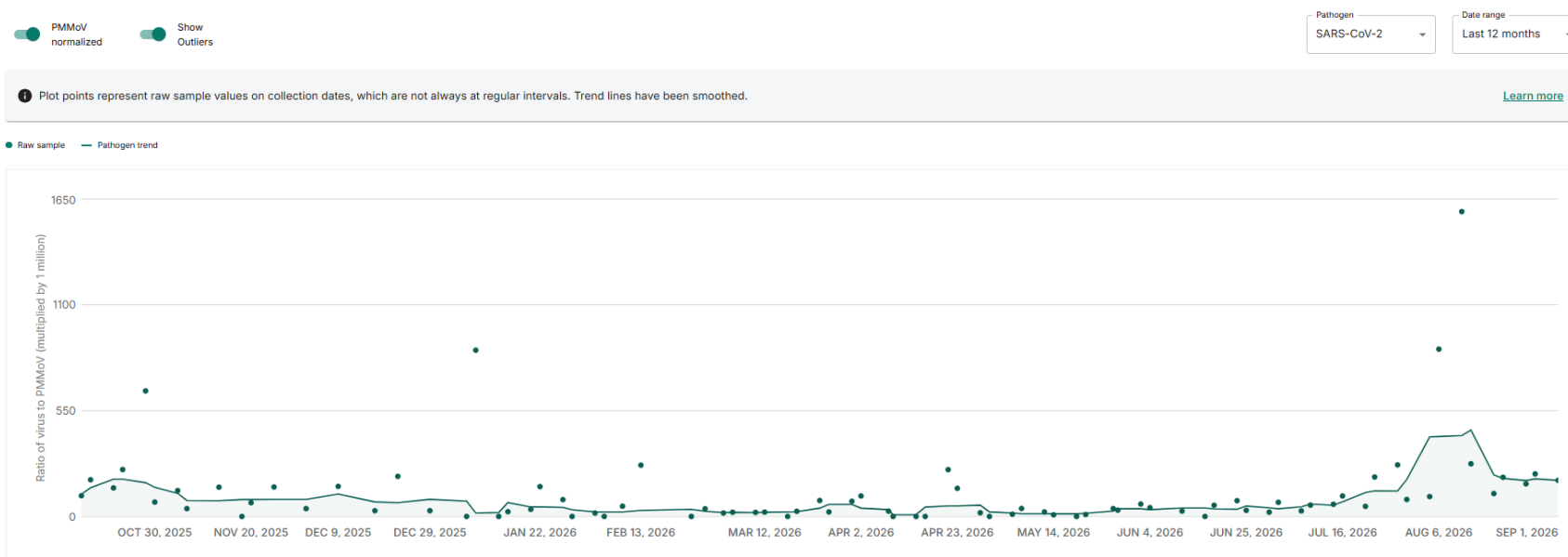
Enterococci/Fecal Streptococci (PT-ENT-WP)										Lot #: 5474-13
NELAC Code	Analyte	Analysis Date	Analyst	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
2520	Enterococci, MF					CFU/100 mL	206		35 - 1190	NR
2520	Enterococci, MPN-Multiple Well	7/25/2026	Erik Van Duren		SM 9230 D-2013 Enterolert	MPN/100 mL	87.9	116.9	14.2 - 546	Acceptable
Additional State Specific Analytes										
2540	Fecal streptococci, MF					CFU/100 mL	220		51 - 952	NR
2540	Fecal streptococci, MPN-Multiple Well					MPN/100 mL	87.9		16.2 - 621	NR
Micro MPN-Multiple Tube (PT-MICT-WP)										Lot #: 5474-25
NELAC Code	Analyte	Analysis Date	Analyst	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
2530	Fecal Coliform, MPN-Multiple Tube	7/27/2026	Connor Barringer	20227263	SM 9221 E 2014	MPN/100 mL	1060	790	156 - 7170	Acceptable
2525	E. Coli, MPN-Multiple Tube					MPN/100 mL	1540		206 - 11400	NR
2500	Total Coliform, MPN-Multiple Tube	7/27/2026	Connor Barringer	20191289	SM 9221 B 2014	MPN/100 mL	1240	790	319 - 4810	Acceptable

Wastewater Public Health Surveillance Update: The following graphs provide a summary of ongoing wastewater plant influent public health surveillance testing being funded by the Center for Disease Control National Wastewater Surveillance System program.

VIRUSES

Note: Samples taken twice per week at CAWD Wastewater Treatment Plant. Tests completed by Verily Life Sciences LLC. Full graphs are available at www.cawd.org/pathogen-concentration-levels

SARS-CoV-2 (COVID) – Past 12 Months:



Respiratory Syncytial Virus (RSV) – Past 12 Months:

☒ PMMoV normalized ☒ Show Outliers

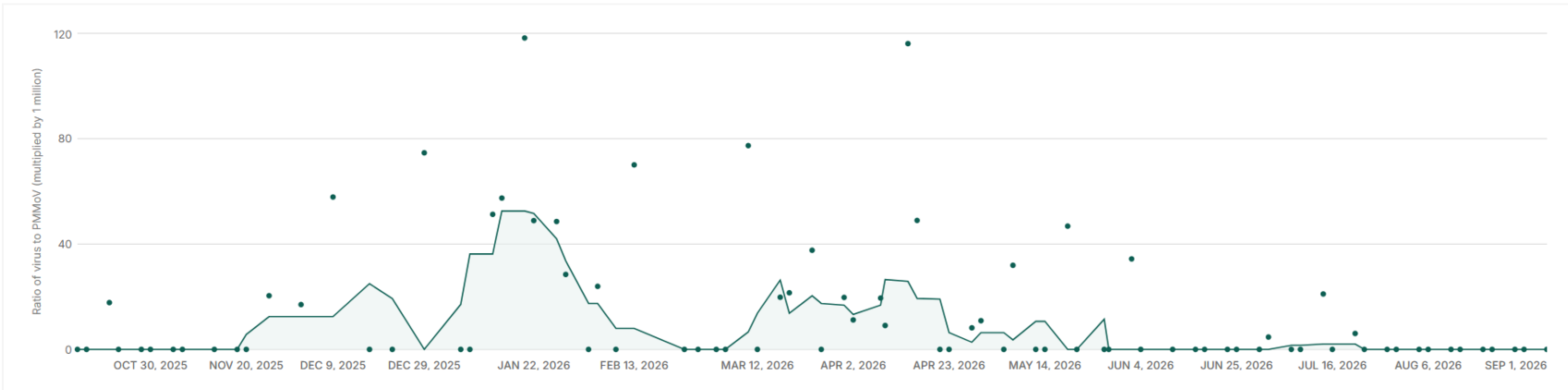
Pathogen
RSV

Date range
Last 12 months

Plot points represent raw sample values on collection dates, which are not always at regular intervals. Trend lines have been smoothed.

[Learn more](#)

Raw sample Pathogen trend



Influenza A– Past 12 Months:

☒ PMMoV normalized ☒ Show Outliers

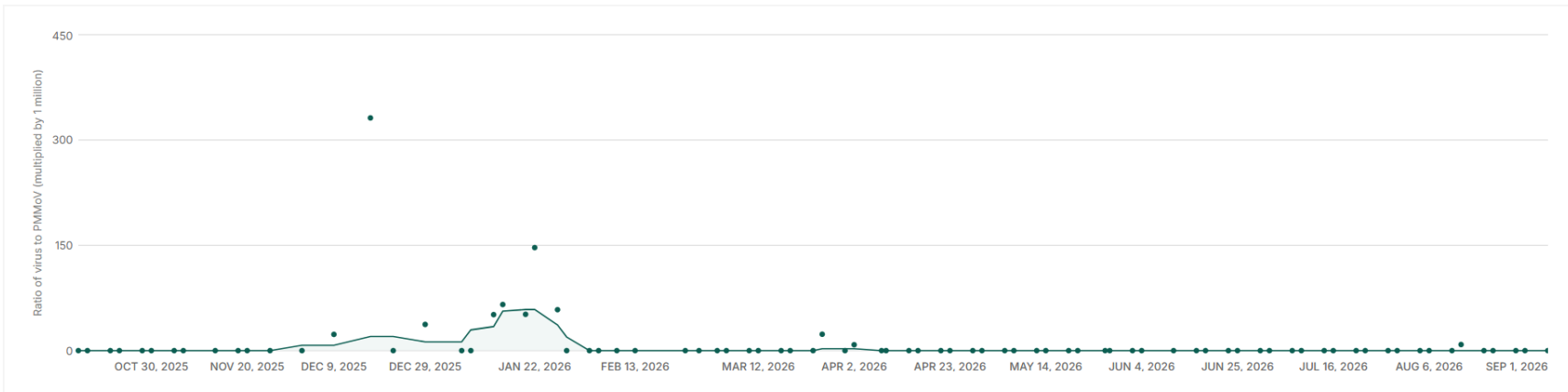
Pathogen
Influenza A

Date range
Last 12 months

Plot points represent raw sample values on collection dates, which are not always at regular intervals. Trend lines have been smoothed.

[Learn more](#)

Raw sample Pathogen trend



Influenza B– Past 12 Months:

☒ PMMoV normalized

☒ Show Outliers

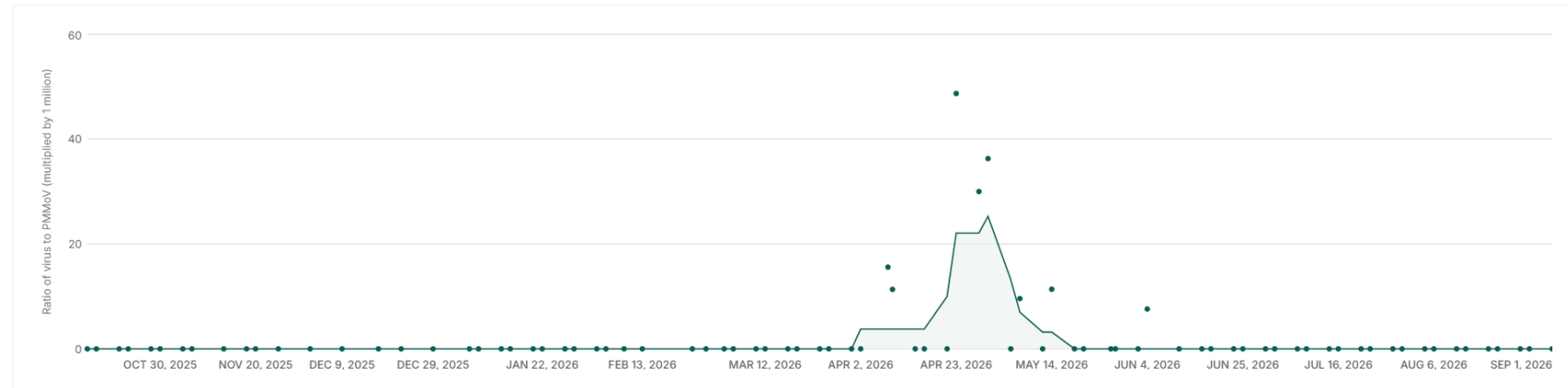
Pathogen
Influenza B

Date range
Last 12 months

Plot points represent raw sample values on collection dates, which are not always at regular intervals. Trend lines have been smoothed.

[Learn more](#)

Raw sample Pathogen trend



Monkey Pox Virus (MPKV) – Past 12 Months:

☒ PMMoV normalized ☒ Show Outliers

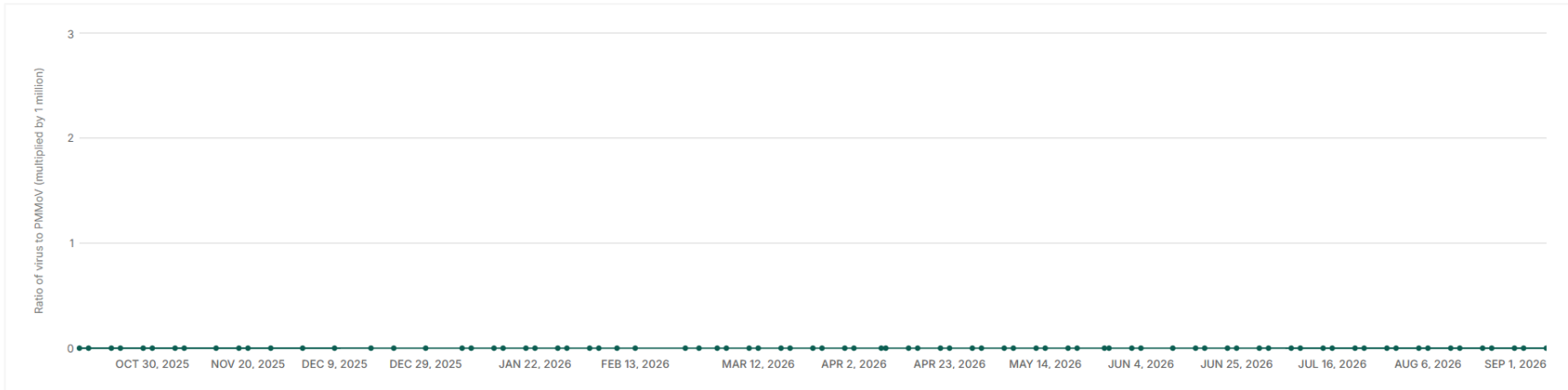
Pathogen
Mpox virus

Date range
Last 12 months

i Plot points represent raw sample values on collection dates, which are not always at regular intervals. Trend lines have been smoothed.

[Learn more](#)

● Raw sample — Pathogen trend



HIGH RISK SUBSTANCES

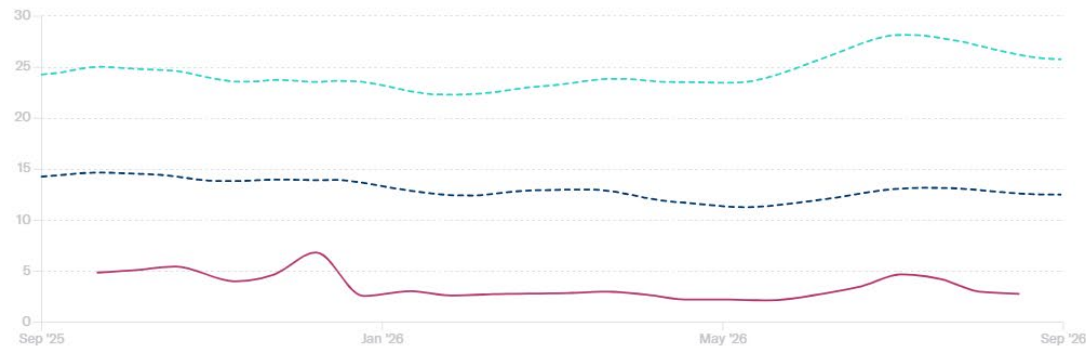
Note: Samples taken once per week at CAWD Wastewater Treatment Plant. Tests completed by Biobot Analytics.

Fentanyl – Past 12 Months:

Compare Fentanyl or Norfentanyl Across Locations

☐ Show Scatter Points ⓘ ☒ Show Smoothed Line ⓘ ☐ Display data flagged as outliers and/or failed QC ⓘ

Effective Concentration (ng/L)



Line Patterns:

— Sample Site - - - Regional/National

Concentration:

— Smoothed • Effective

2025-09-10 → 2026-09-10

Select Locations 3 Selected ⓘ

Clear

Select locations

☒ US National Average

X

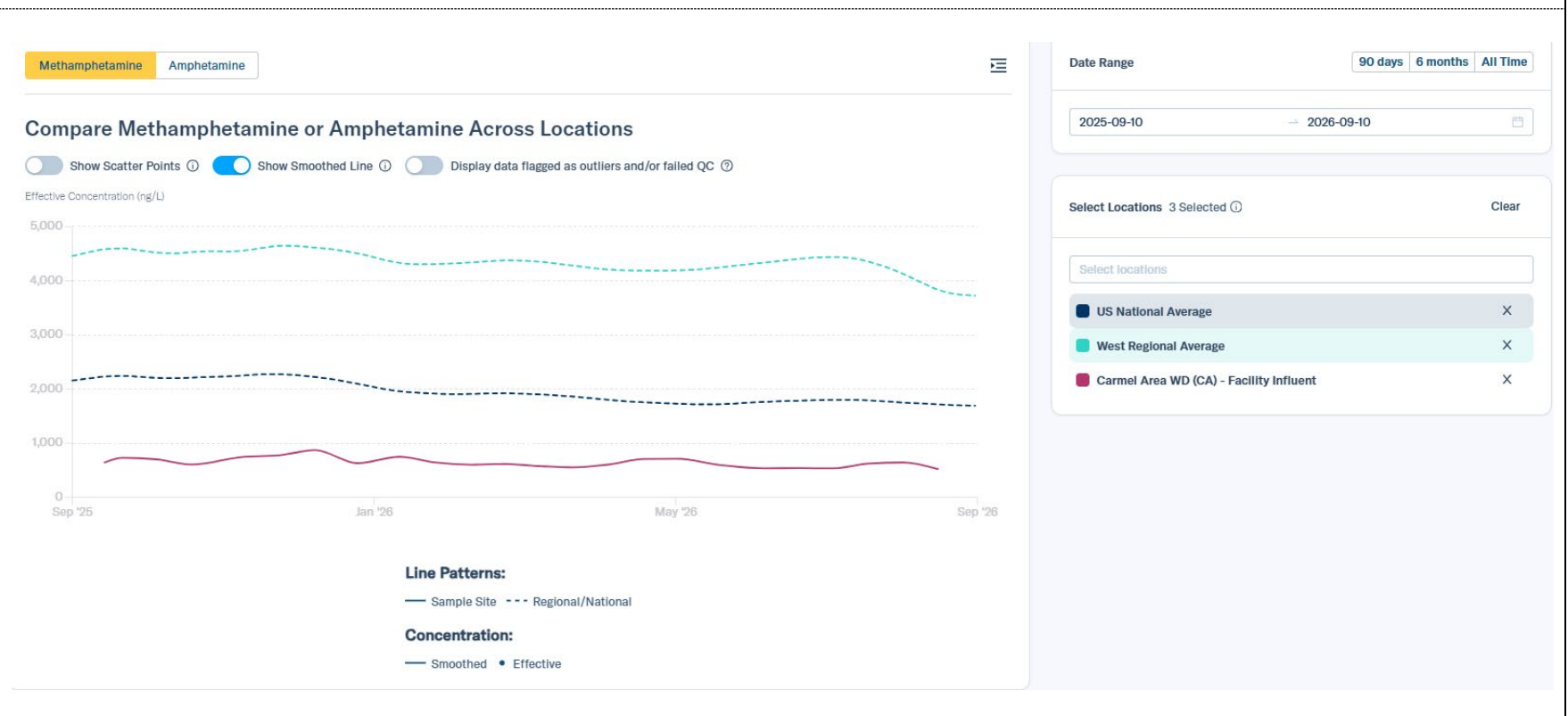
☒ West Regional Average

X

☒ Carmel Area WD (CA) - Facility Influent

X

Methamphetamine – Past 12 Months:



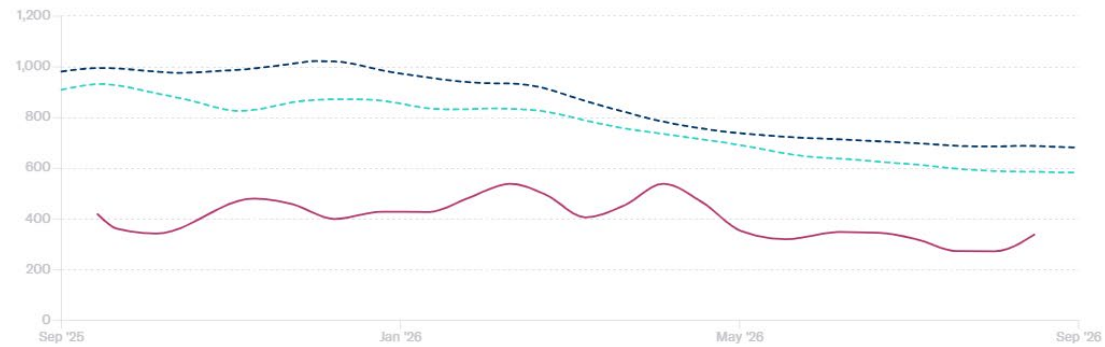
Cocaine – Past 12 Months:

Cocaine Benzoylcegonine

Compare Cocaine or Benzoylcegonine Across Locations

☐ Show Scatter Points ⓘ ☒ Show Smoothed Line ⓘ ☐ Display data flagged as outliers and/or failed QC ⓘ

Effective Concentration (ng/L)



Line Patterns:

— Sample Site - - - Regional/National

Concentration:

— Smoothed • Effective

Date Range

90 days 6 months All Time

2025-09-10

→ 2026-09-10

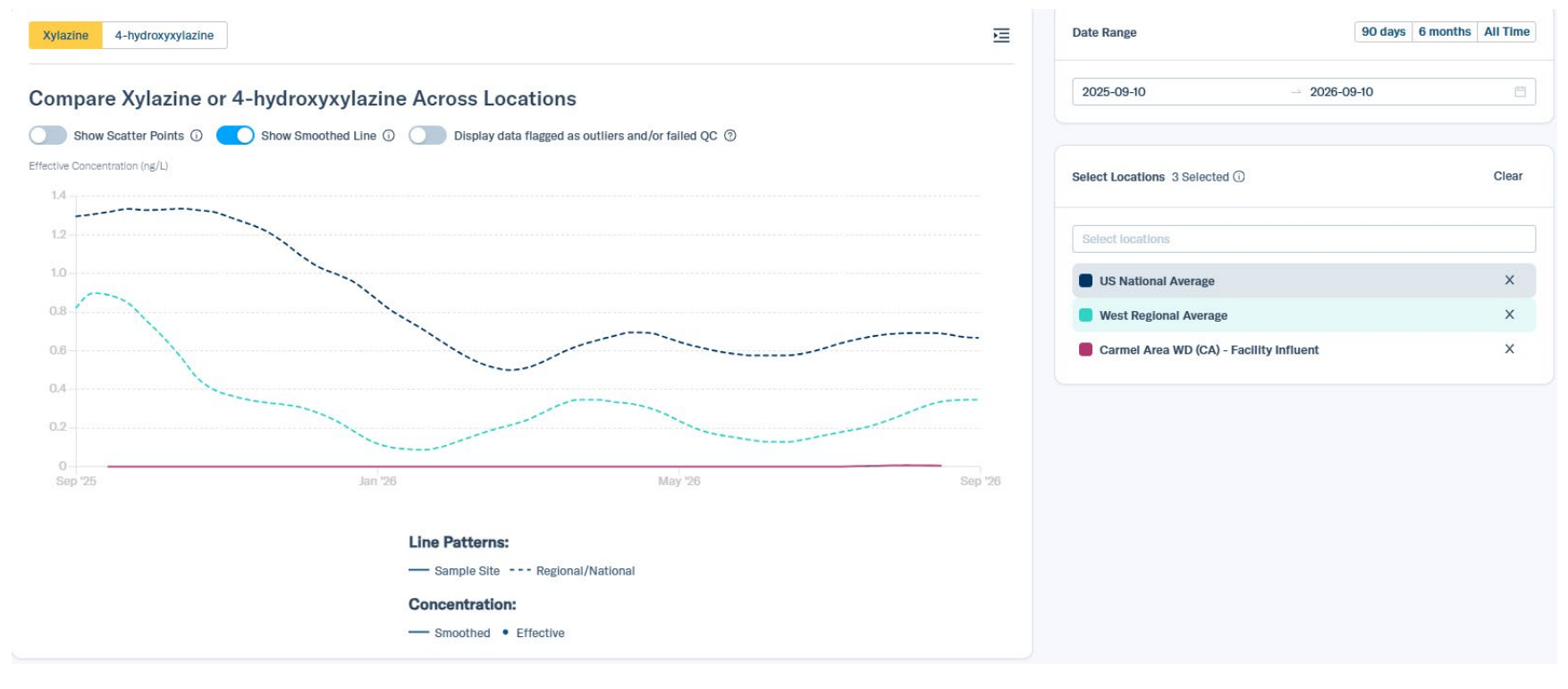
Select Locations 3 Selected ⓘ

Clear

Select locations

- ☒ US National Average X
- ☒ West Regional Average X
- ☒ Carmel Area WD (CA) - Facility Influent X

Xylazine (Tranq) – Past 12 Months:



FUNDING

N/A Information Only