

# Laguna Environmental Laboratory Update

June 20, 2024  
Board of Public Utilities

Robert C. Wilson, Laboratory Supervisor

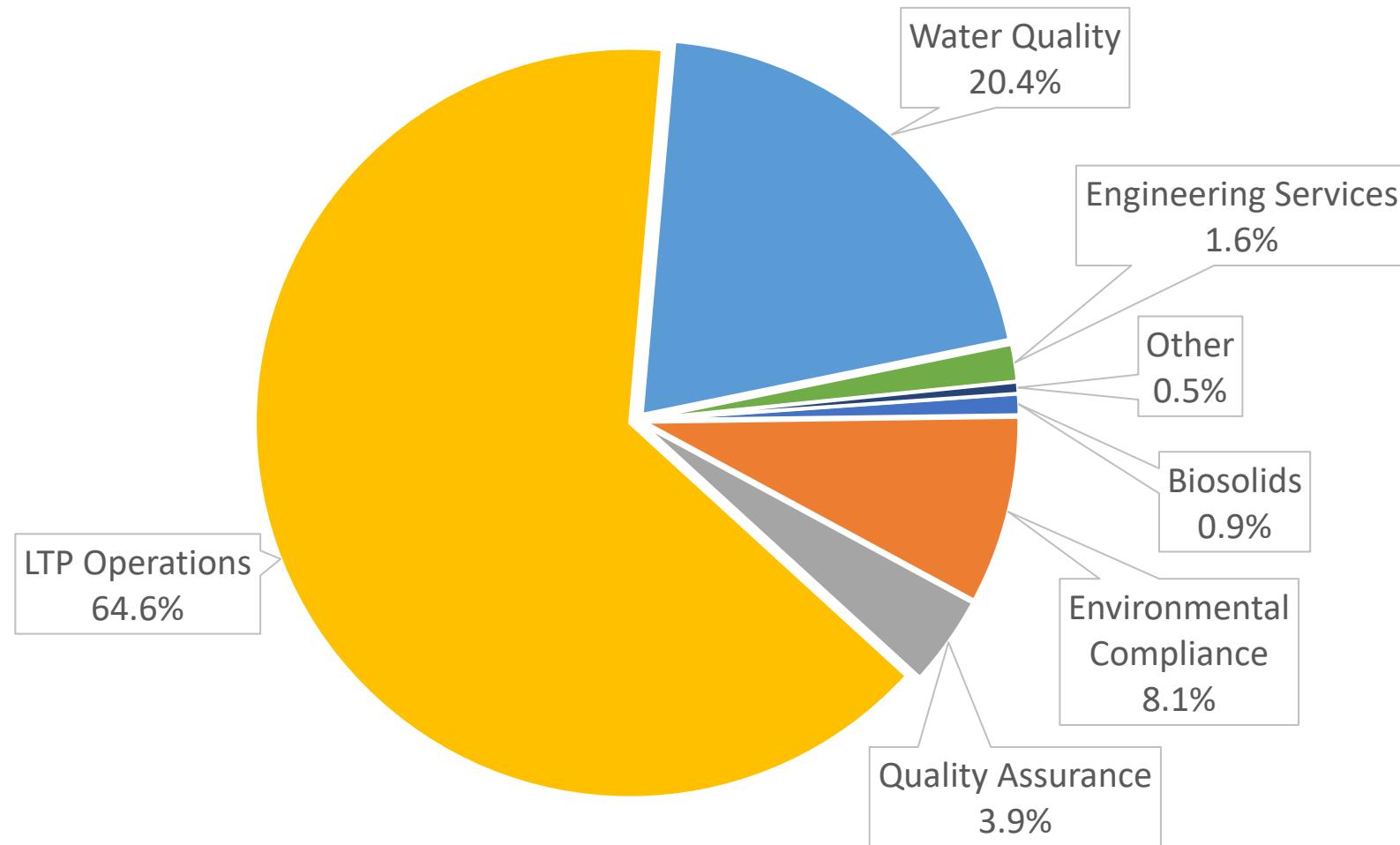


# Laguna Environmental Laboratory (LEL)

- LEL was established in 1968 with primary function of physical and chemical measurements of wastewater
- Expansion to add a broader scope of analytical testing in 2000
- Staffing includes sample receiving and preparation, laboratory analysts, information technology and management for a total of 14 people
- Staff processed 10k Samples for a total of 26k analytes in 2023



# Laguna Environmental Laboratory Clients

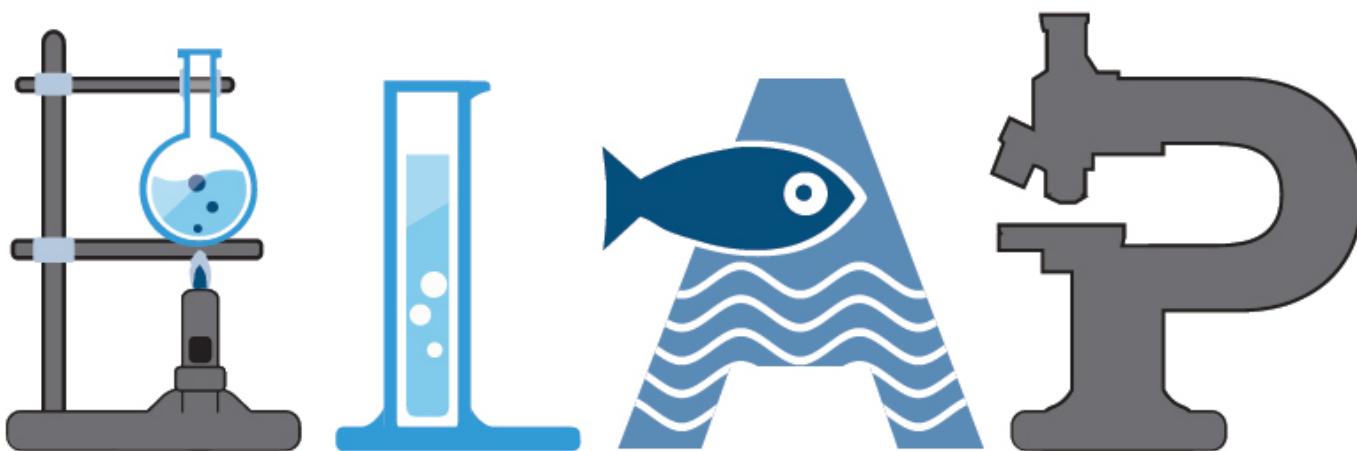


# Customer Service

- Upload data for drinking water and wastewater reporting
- Work with clients to provide sample assistance and bottle kits
- Consulting services for Police and Fire
- Support compliance with Contaminants of Emerging Concerns (CECs)



# Maintaining Accreditation



**Environmental Laboratory Accreditation Program**  
STATE WATER RESOURCES CONTROL BOARD

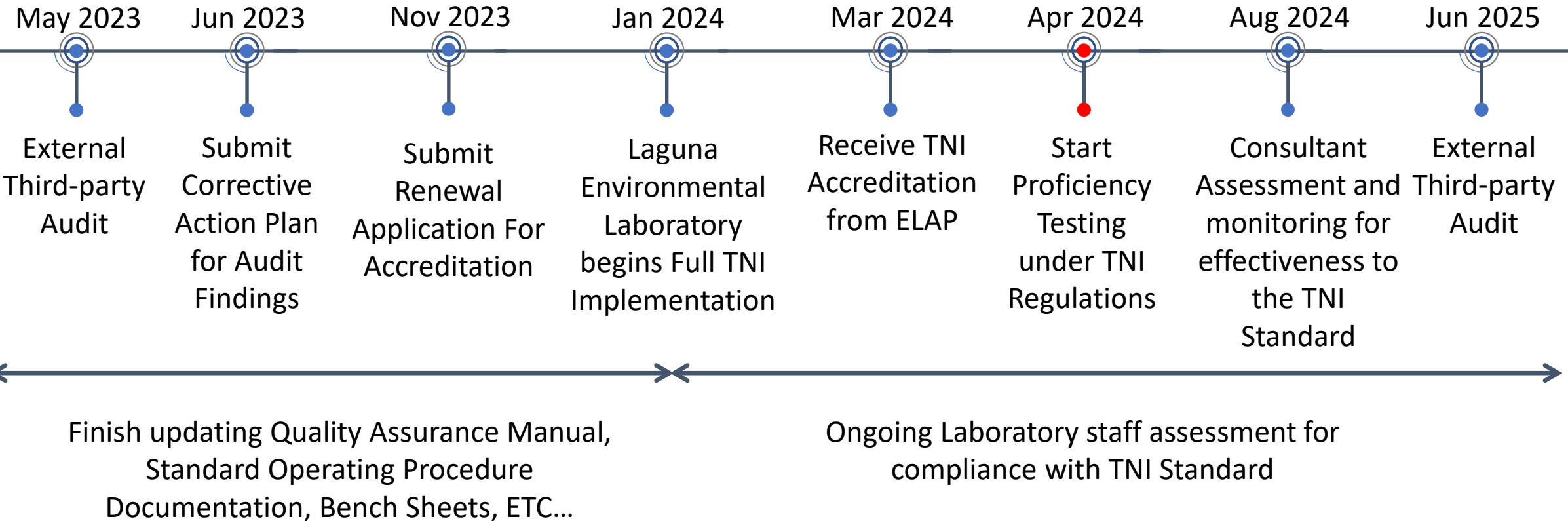
- Environmental Laboratory Accreditation Program (ELAP)
  - Accreditation body for environmental laboratories in California
  - Adopted The NELAC Institute (TNI) standard with laboratories adopting changes by January 2024

# The NELAC Institute (TNI)

- NELAC is the National Environmental Laboratories Accreditation Conference.
- To comply with the new standard the laboratory made multiple changes to Quality Assurance Programs with few changes regarding how testing is performed at the bench.
- TNI is Based on the International Organization for Standardization (ISO) and uses format and language consistent with ISO.



# TNI Compliance Timeline

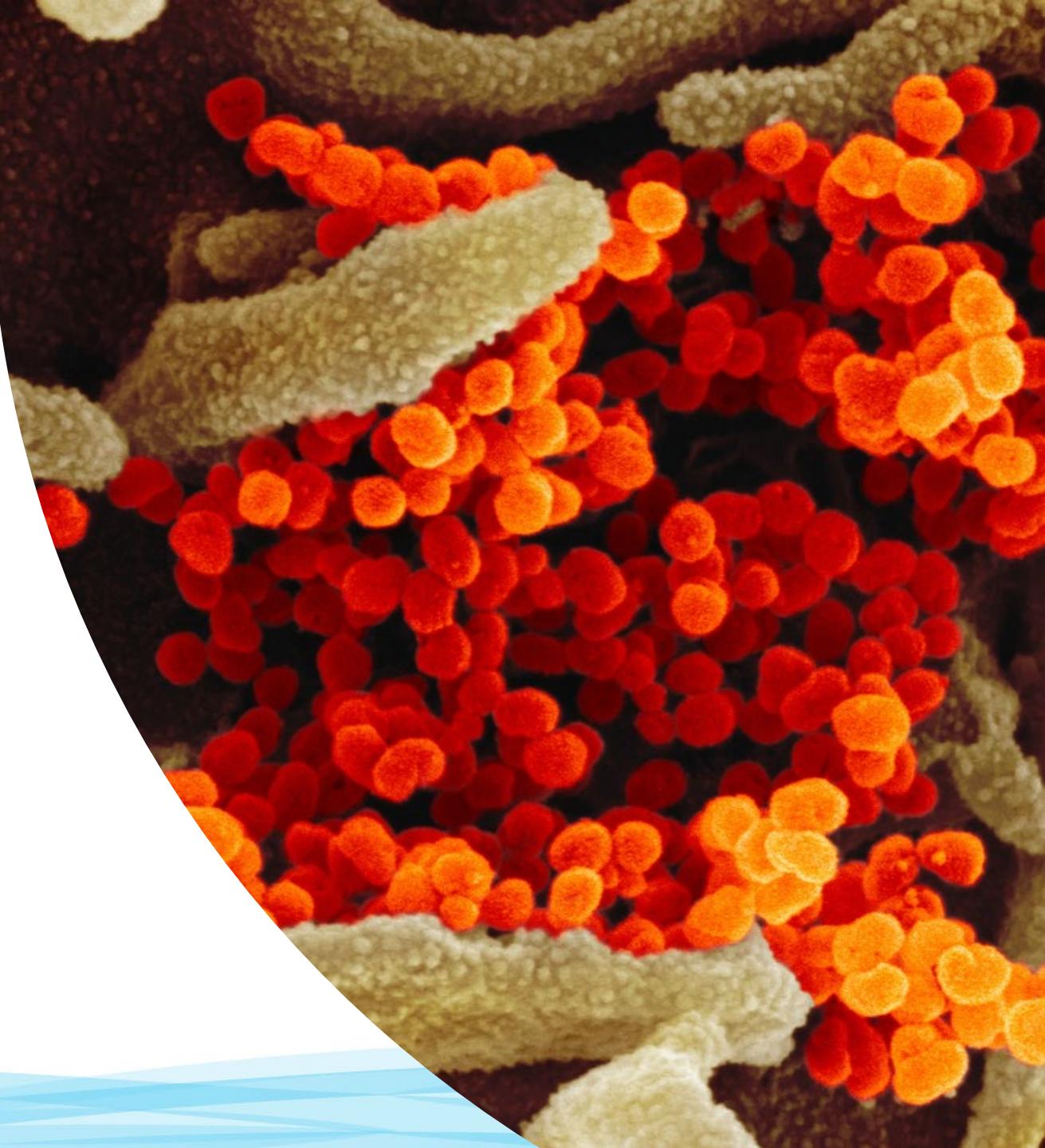


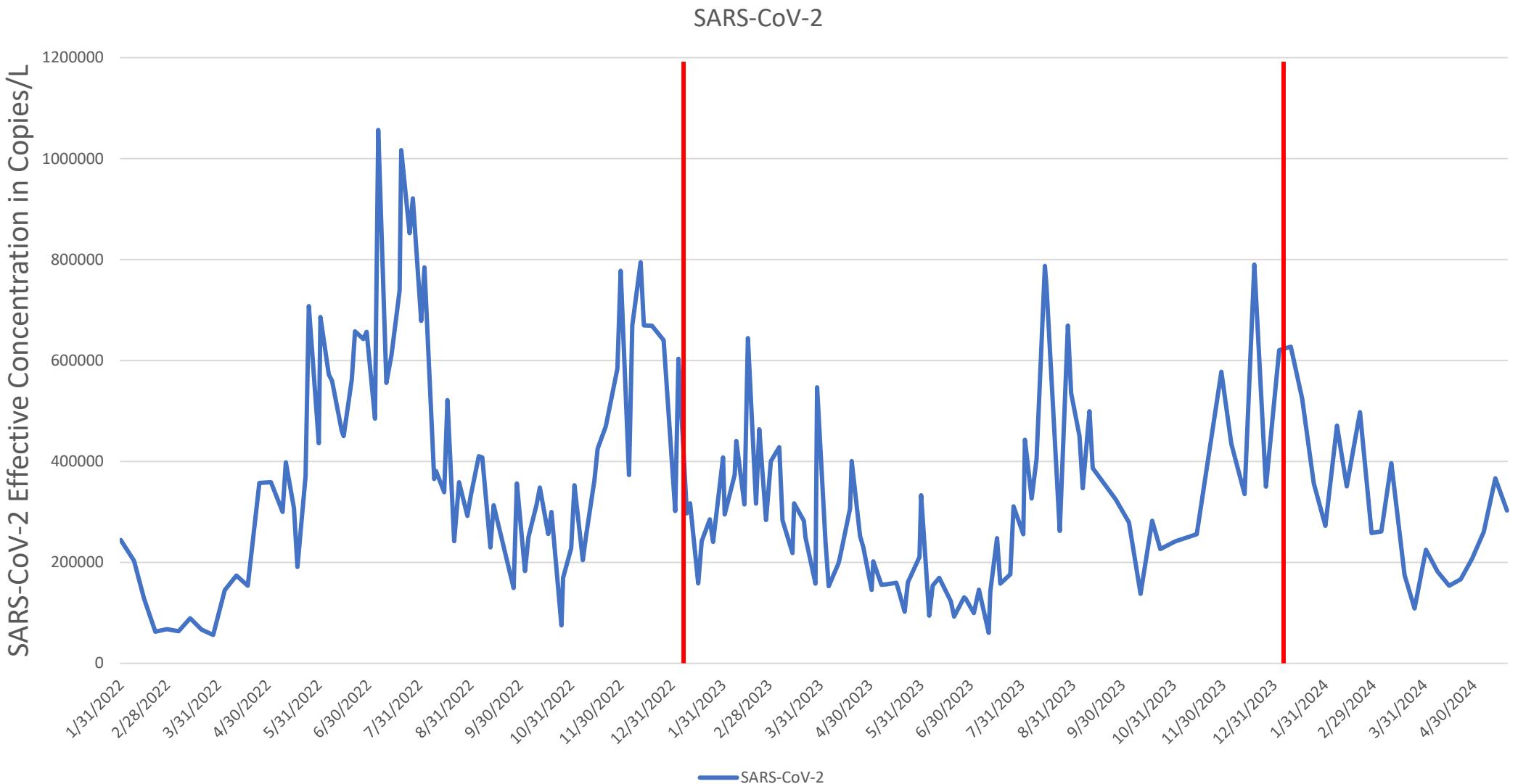
# Wastewater Epidemiological Studies

The Water Department is participating in two National Studies

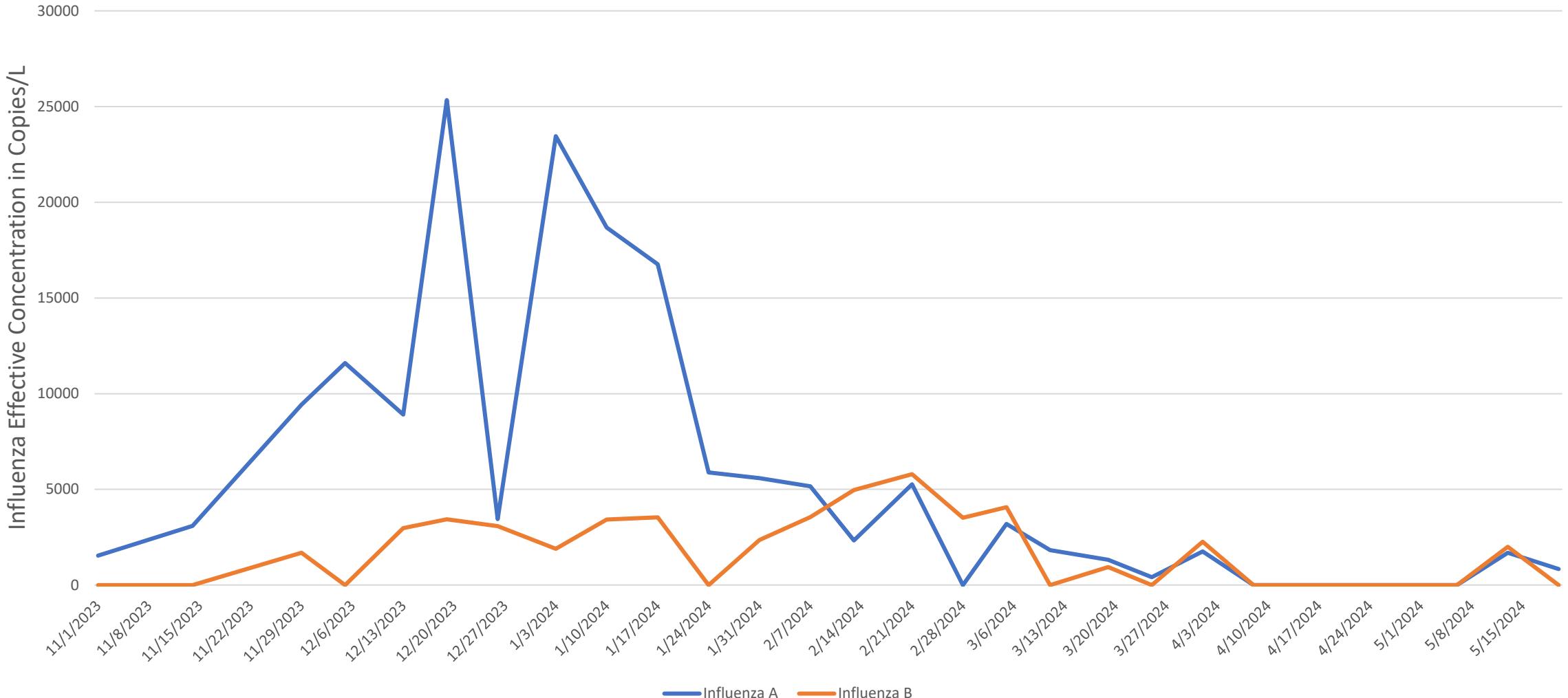
Multiple viral studies including:

- SARS-CoV-2
- Influenza A and B
- RSV
- Human Metapneumovirus
- Norovirus
- Rotavirus
- Mpox
- Hepatitis A





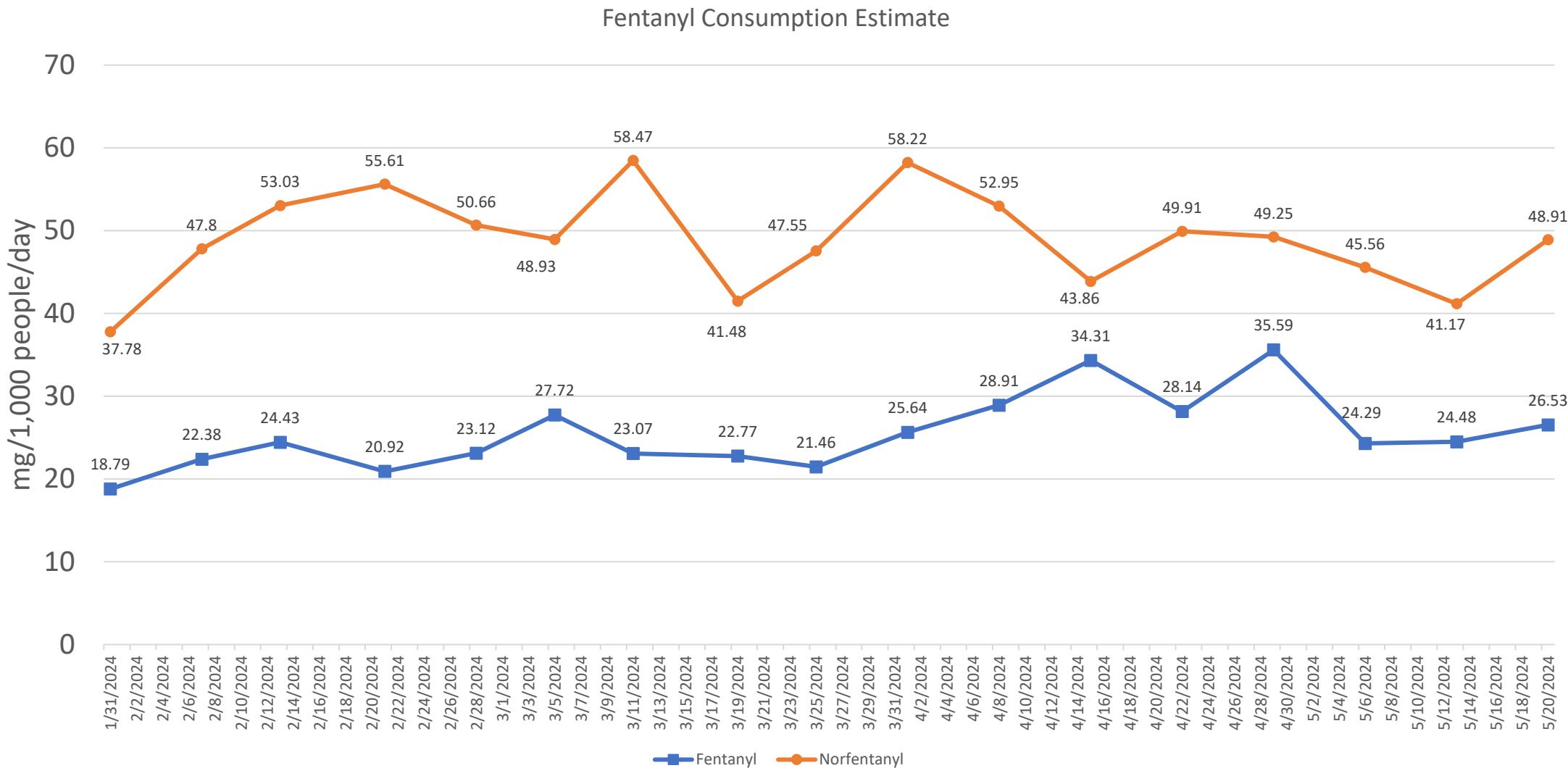
## Influenza

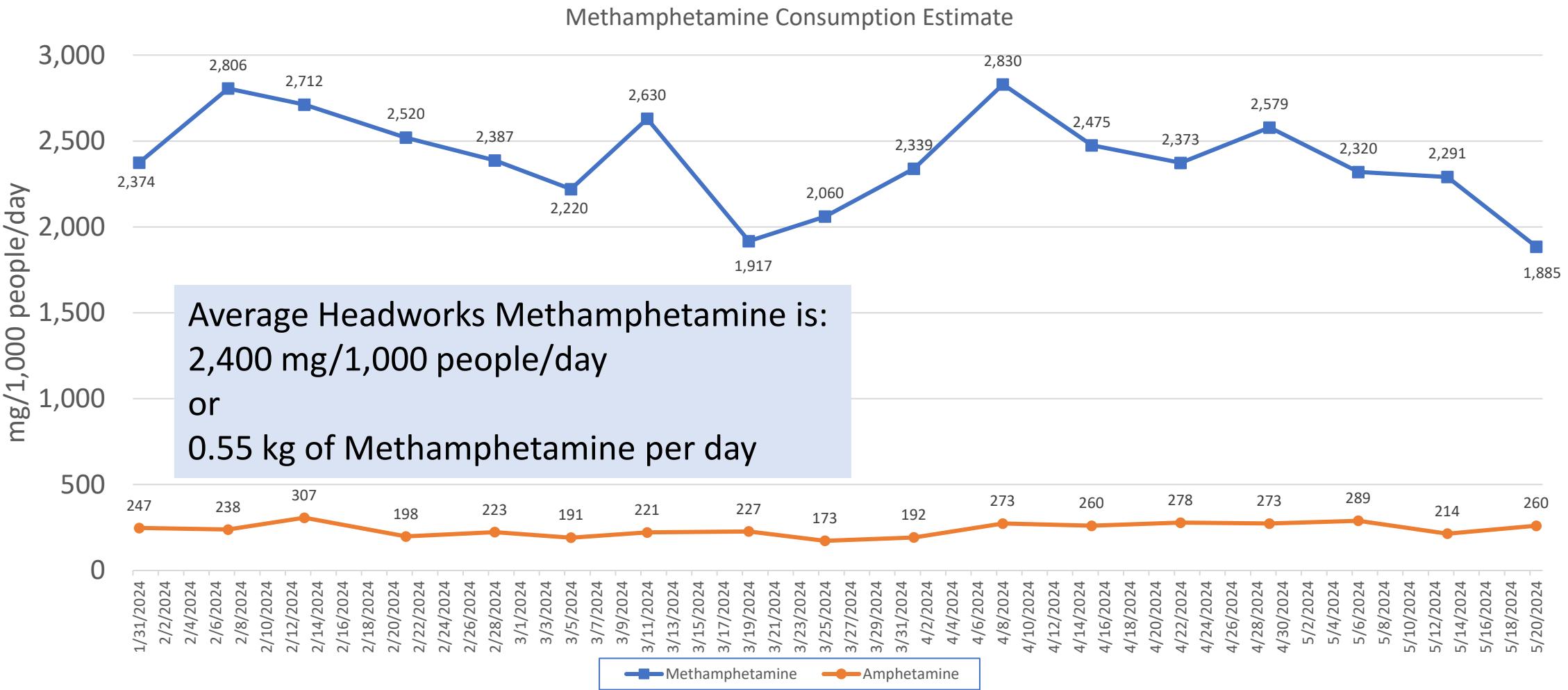


# Illicit Drugs

- Development of data for public health needs in disadvantaged communities.
- Data is collected from wastewater influent for:
  - Fentanyl
  - Cocaine
  - Methamphetamine
  - Xylazine









Thank you