

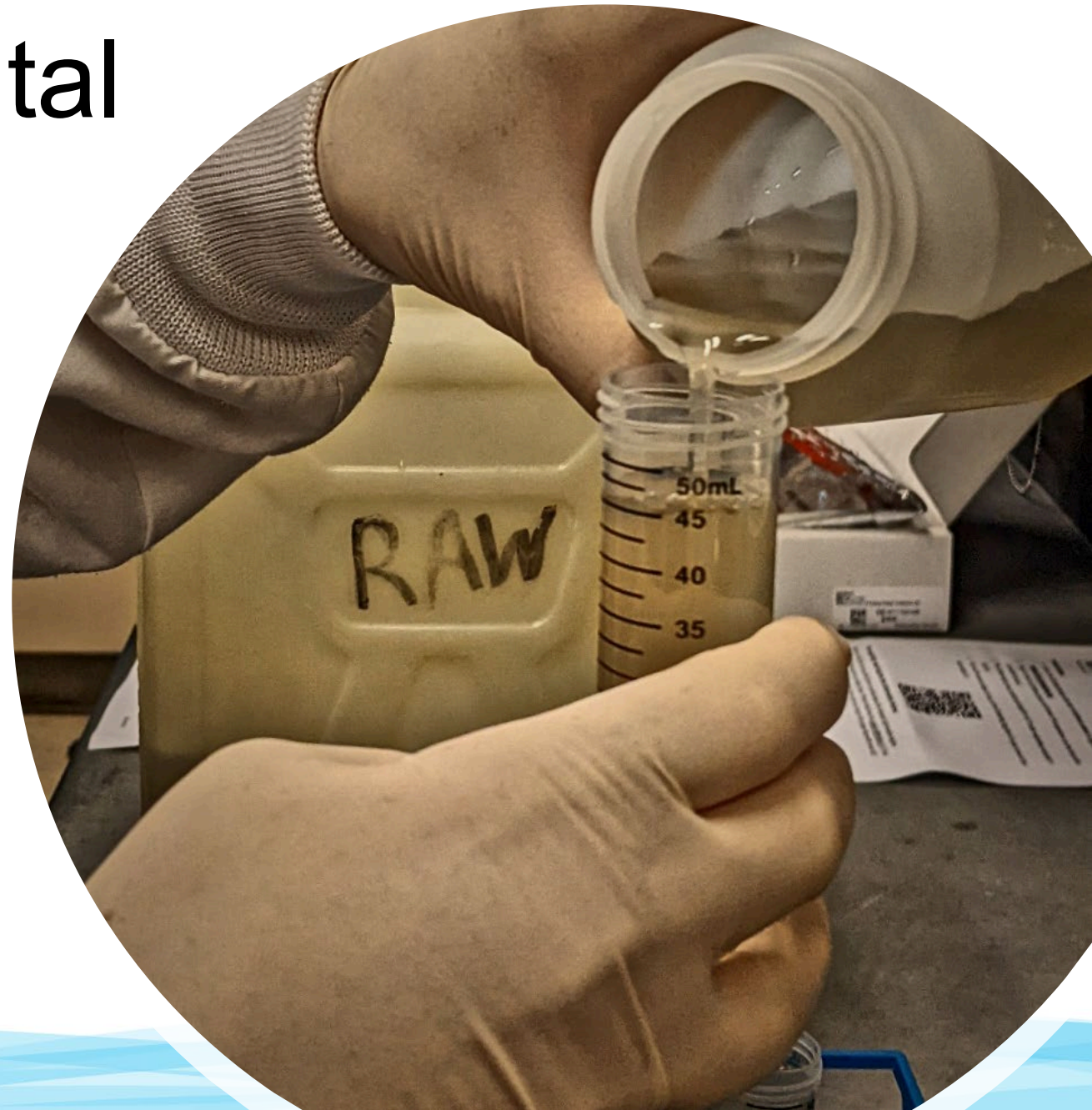
Laguna Environmental Laboratory Update

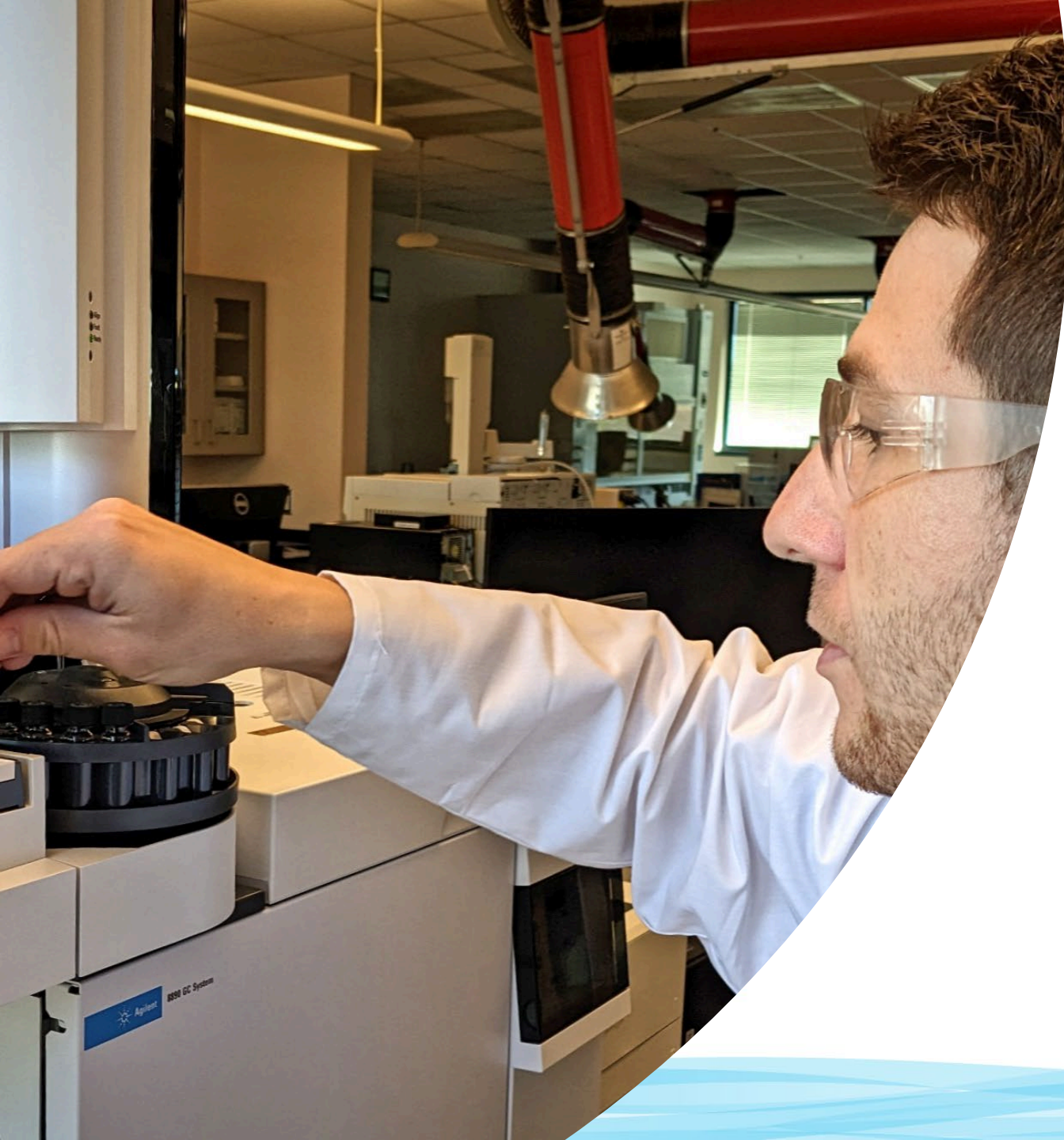
May 15, 2025
Board of Public Utilities

Robert C. Wilson, Laboratory Supervisor



OUR FUTURE IN EVERY DROP

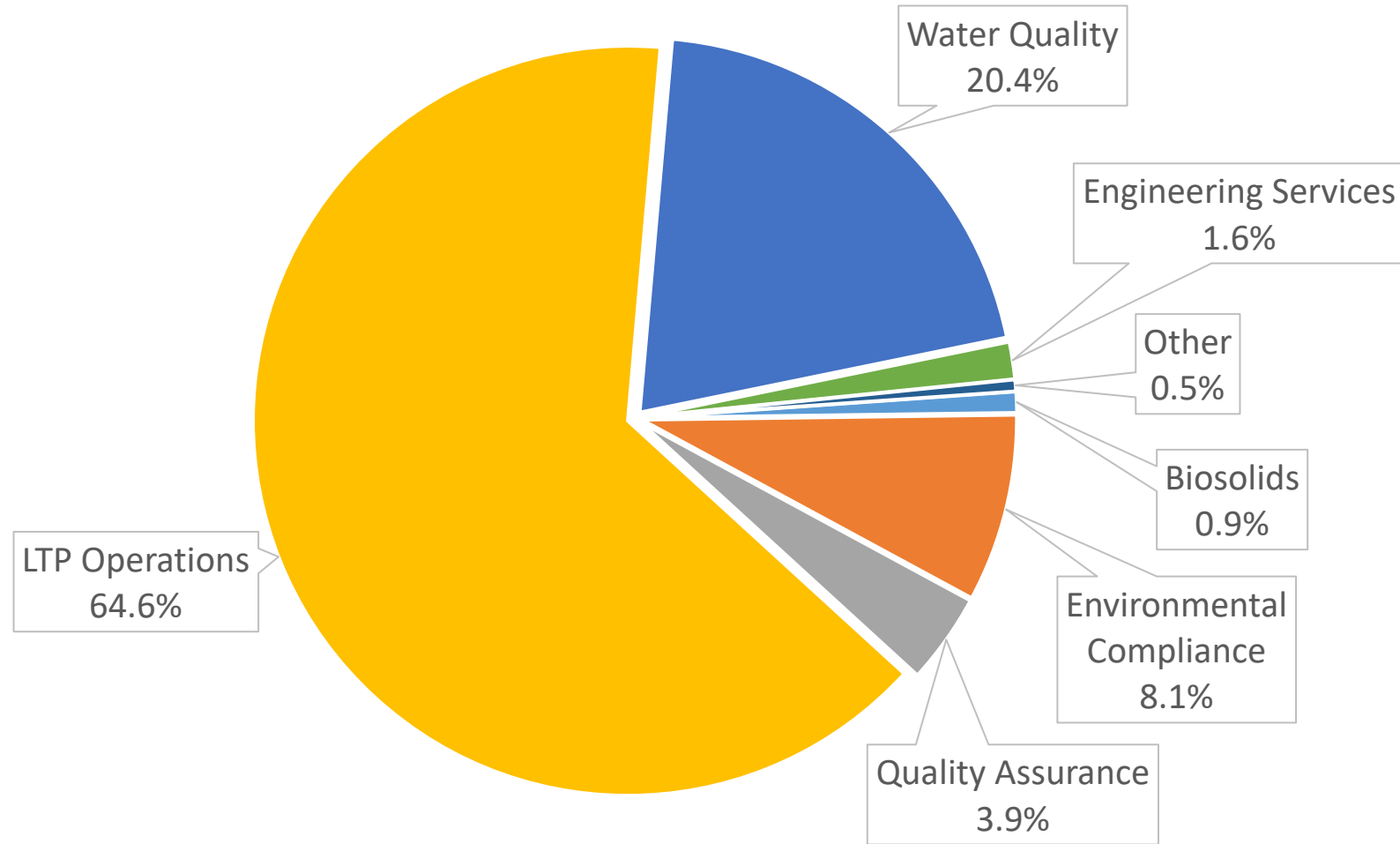




Laguna Environmental Laboratory (LEL)

- 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 laboratory aides, laboratory analysts, a programmer, and management for a total of 14 people
- Staff processed 12k samples for a total of 33k analytes in 2024

Laguna Environmental Laboratory Clients



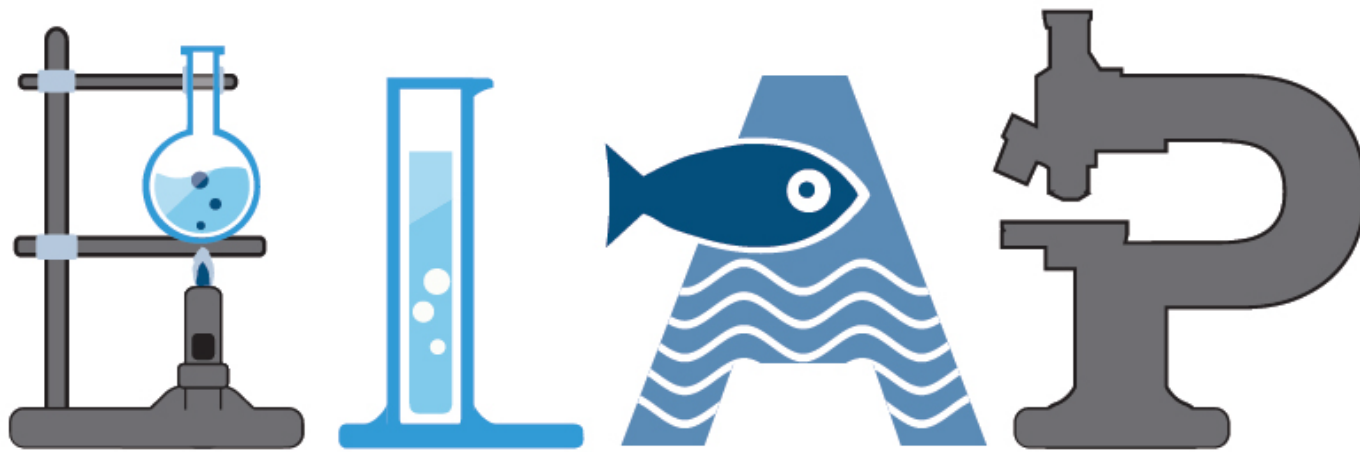
Customer Service

- Analyze and upload data for drinking water, wastewater, and biosolids reporting
- Work with clients to provide sample assistance and bottle kits
- Support special sampling projects for analytes not covered under the Laguna Environmental Laboratory ELAP Scope
 - PFAS
 - Dioxin
 - Bacteriodes



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Maintaining Accreditation



Environmental Laboratory Accreditation Program
STATE WATER RESOURCES CONTROL BOARD

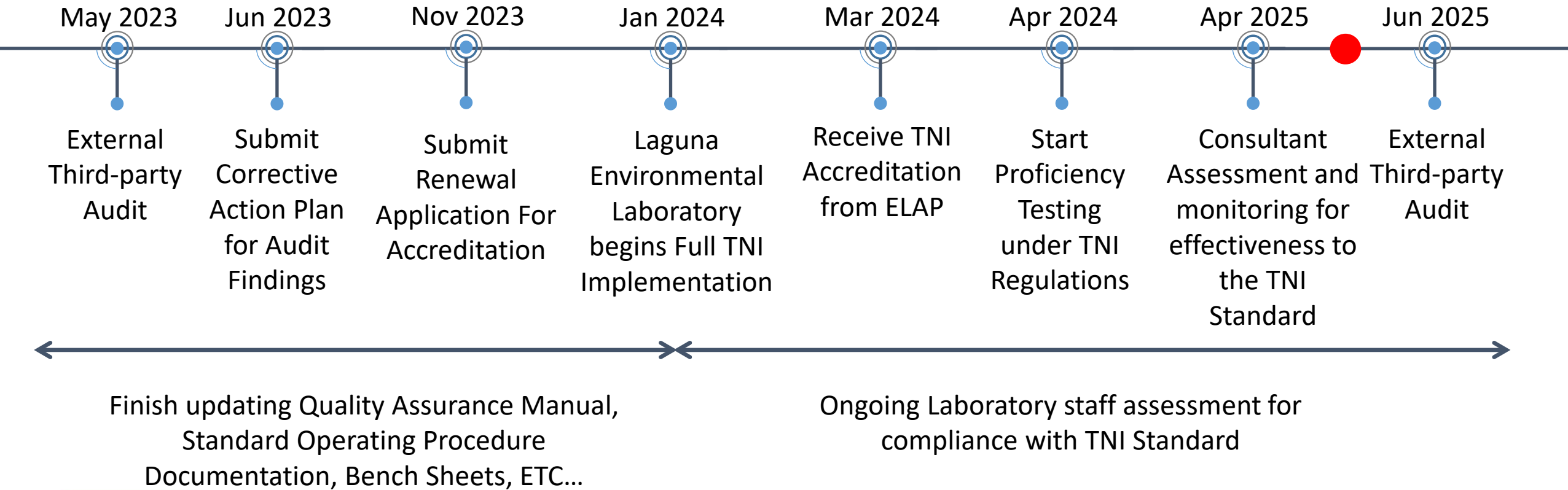
- Environmental Laboratory Accreditation Program (ELAP)
 - Accreditation body for environmental laboratories in California
 - Adopted The NELAC Institute (TNI) standard with laboratories adopting changes by January 2024

Compliance with the TNI Standard

- Implemented a new Quality Management System
- Updated the Standard Operating Procedures throughout the Laguna Environmental Laboratory
- Increased the level of traceability of all laboratory support equipment, instrumentation, and reagents



TNI Compliance Timeline



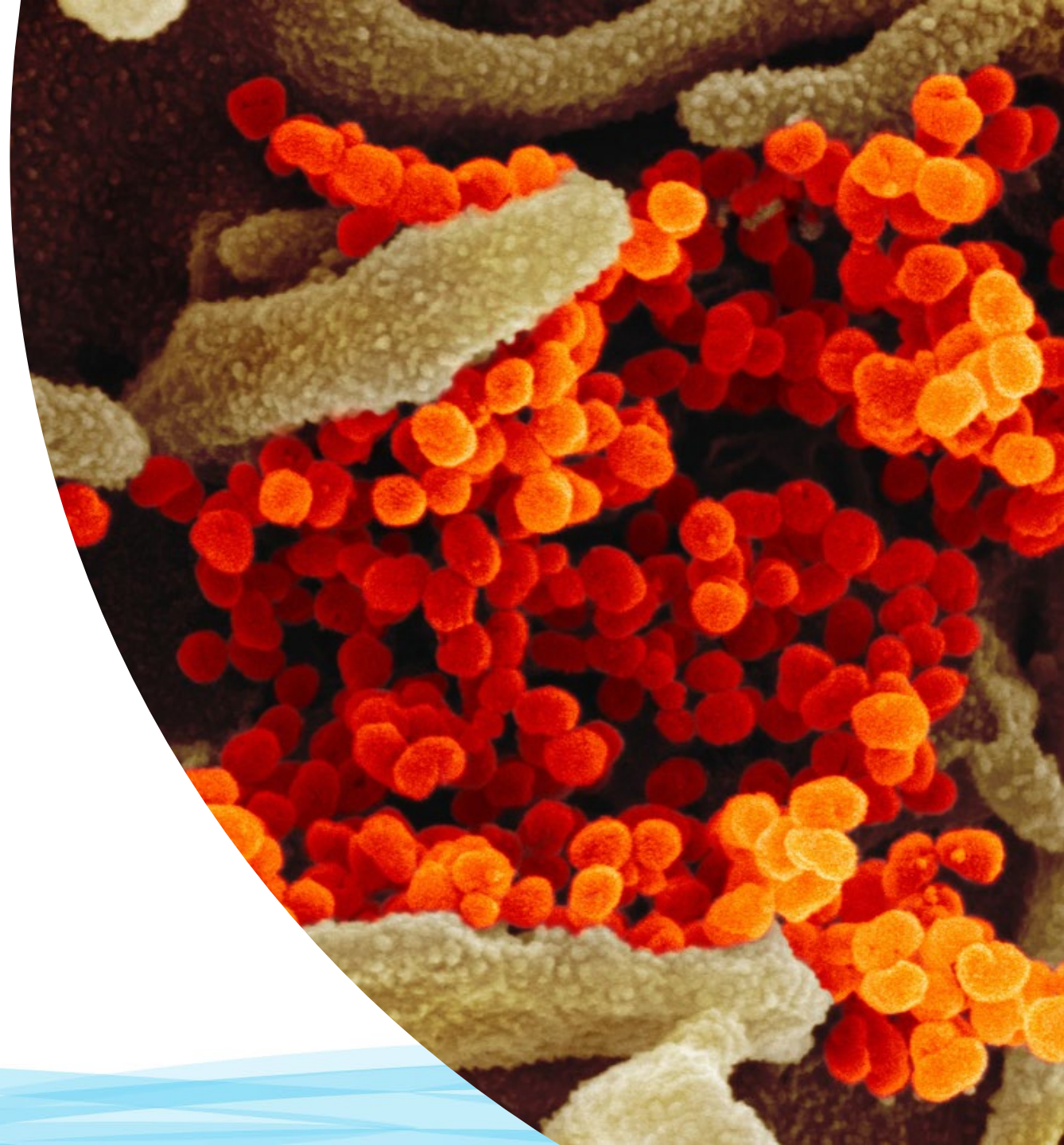
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Wastewater Epidemiological Studies

- 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
- Newly added Measles



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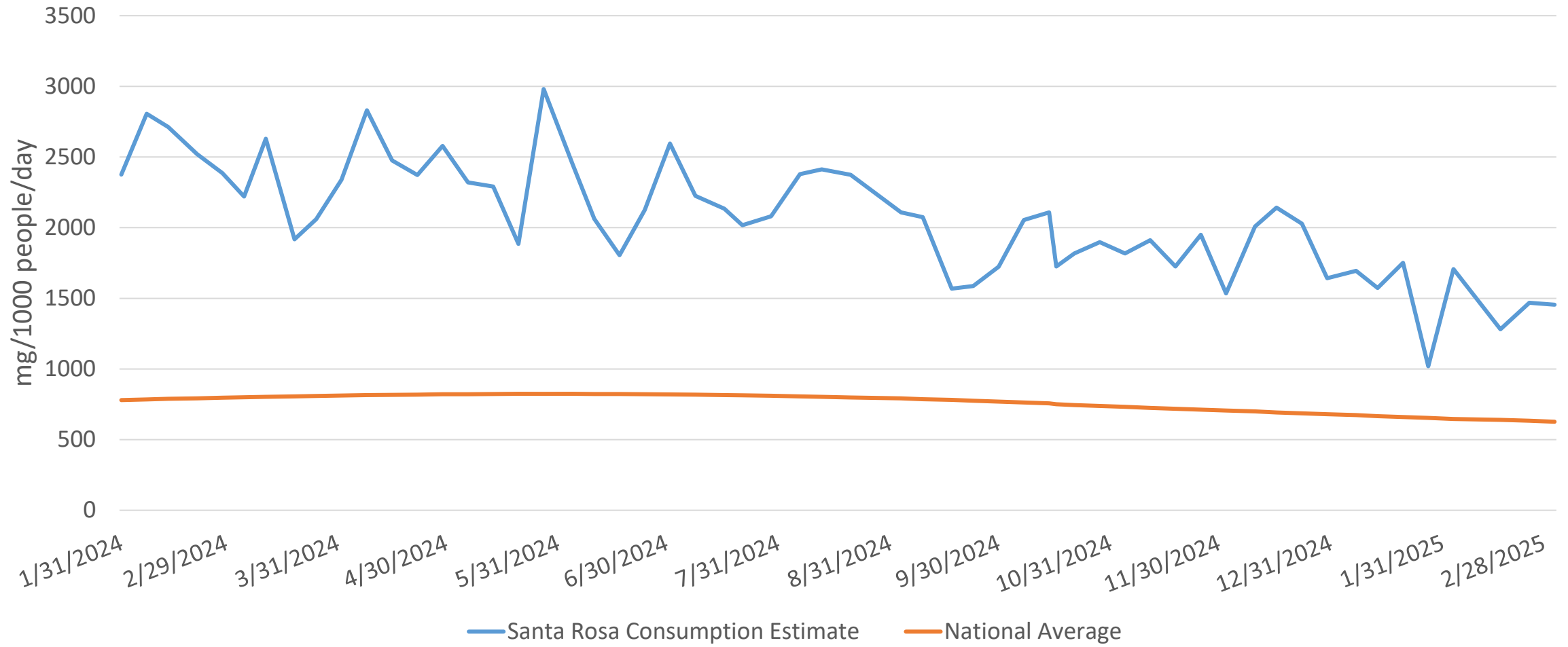


Illicit Drugs

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

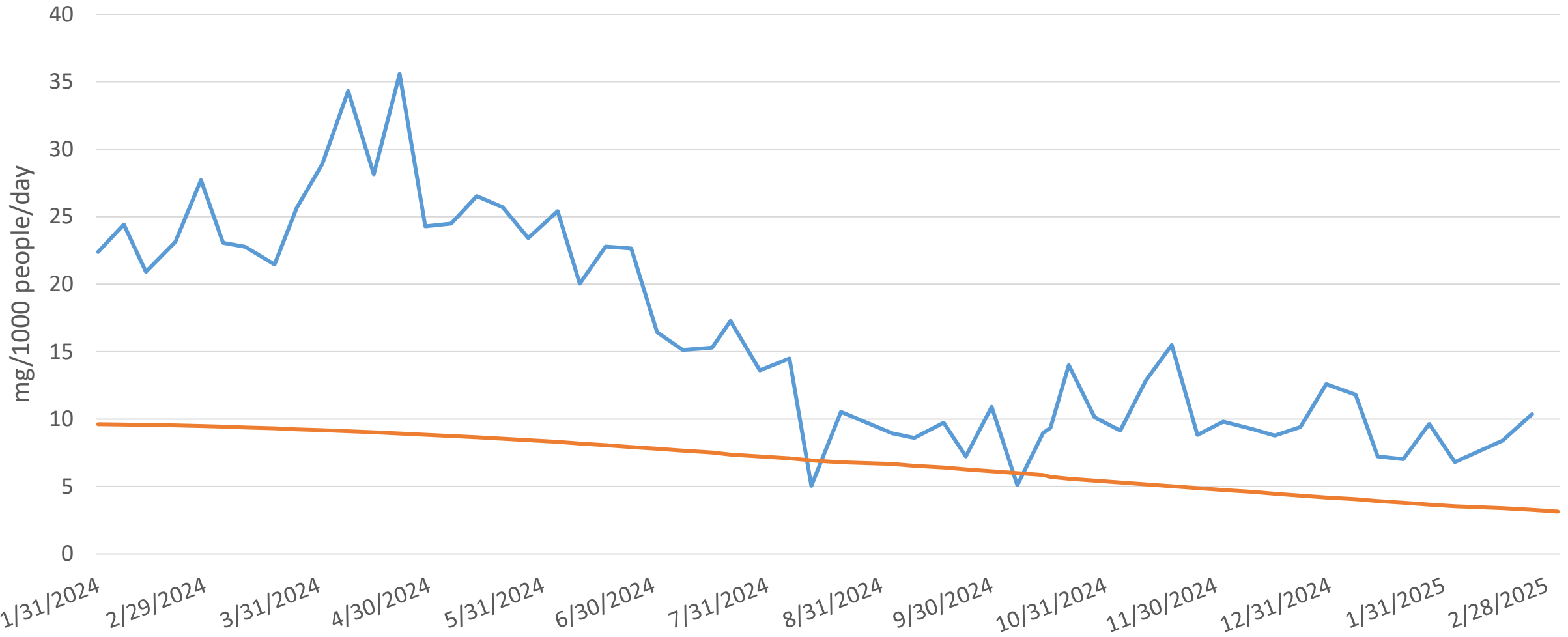


Methamphetamine



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Fentanyl



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— Santa Rosa Consumption Estimate

— National Average



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Thank you