Update on California Water Board PFAS Testing of Drinking Water and Potential Sources

March 20, 2024

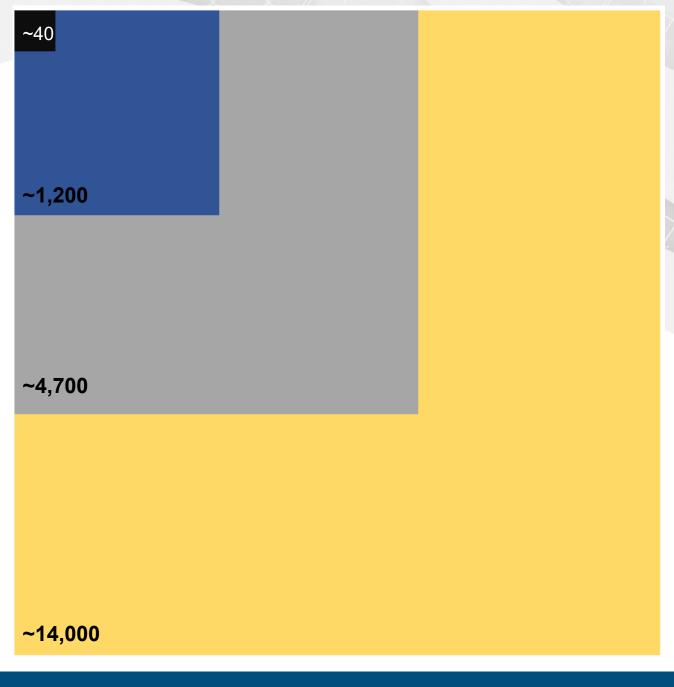
Biomonitoring California Scientific Guidance Panel Meeting

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Division of Water Quality





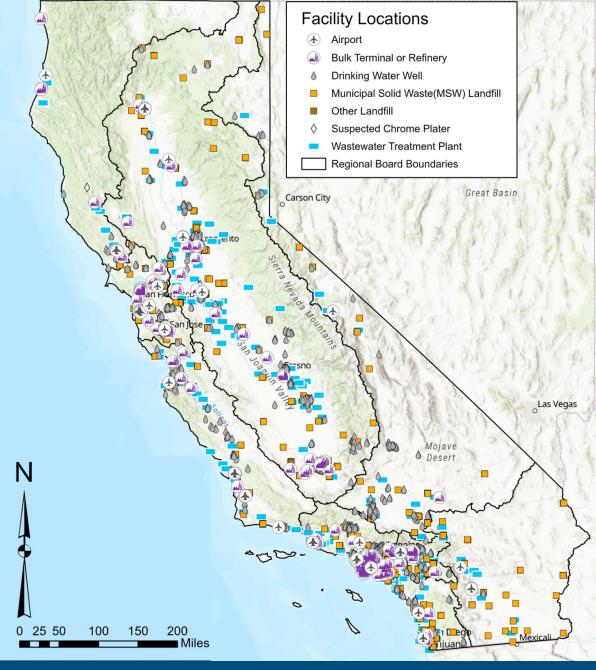
Perspective on the PFAS Class

- USEPA Analytical Methods
- Non-Target Analysis (NTA)
- OECD* Global PFAS Database
- US EPA PFAS Master Description (August 2021)

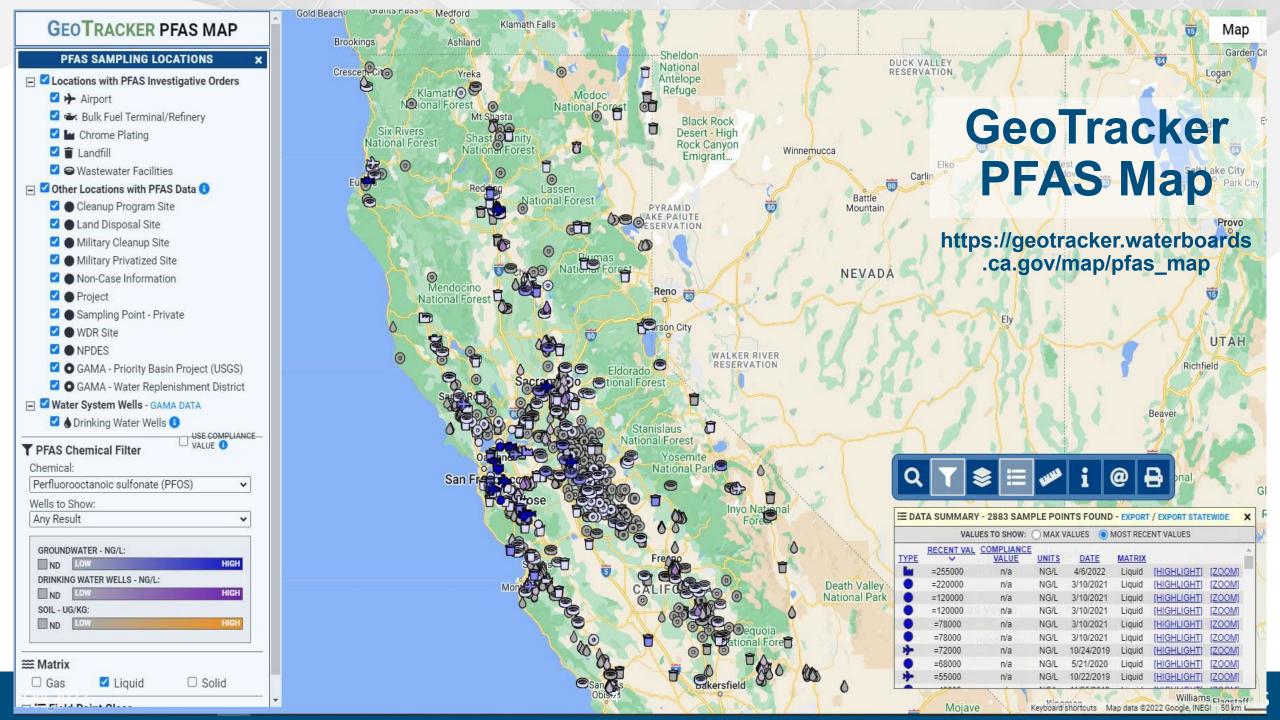
*Organization for Economic Cooperation and Development

California Water Boards

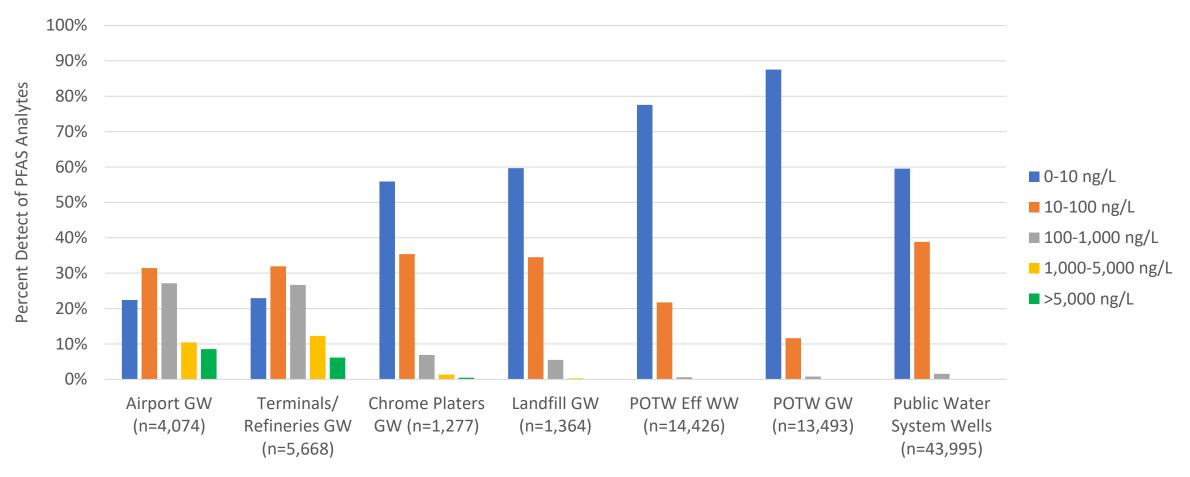
Occurrence of PFAS is Being Gathered Statewide for Water Quality



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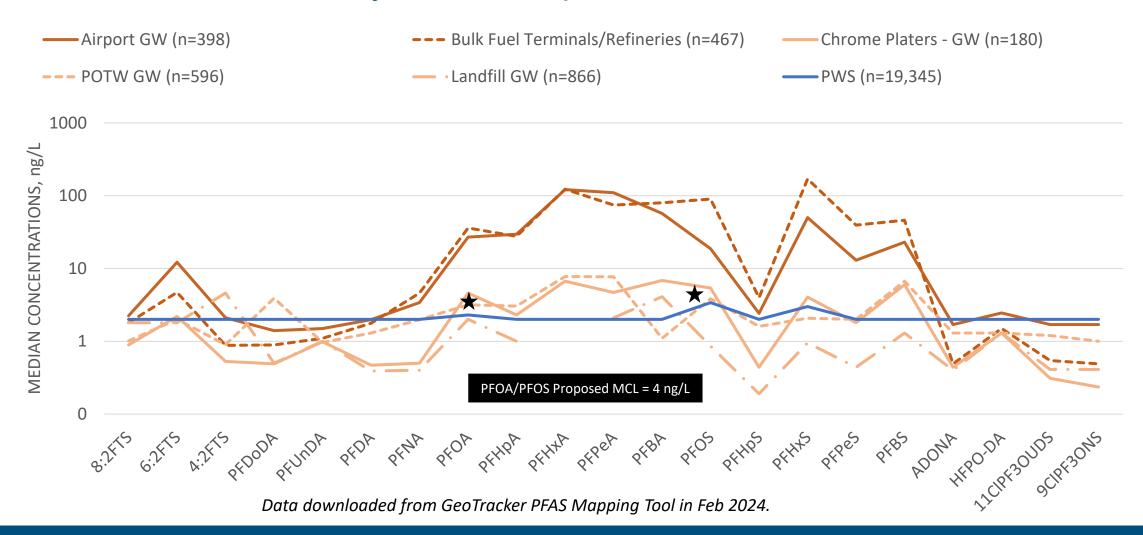


PFAS Concentrations are Broadly distributed at Airports, Bulk Fuel Terminals, and Refineries where Aqueous Film-Forming Foam is Used



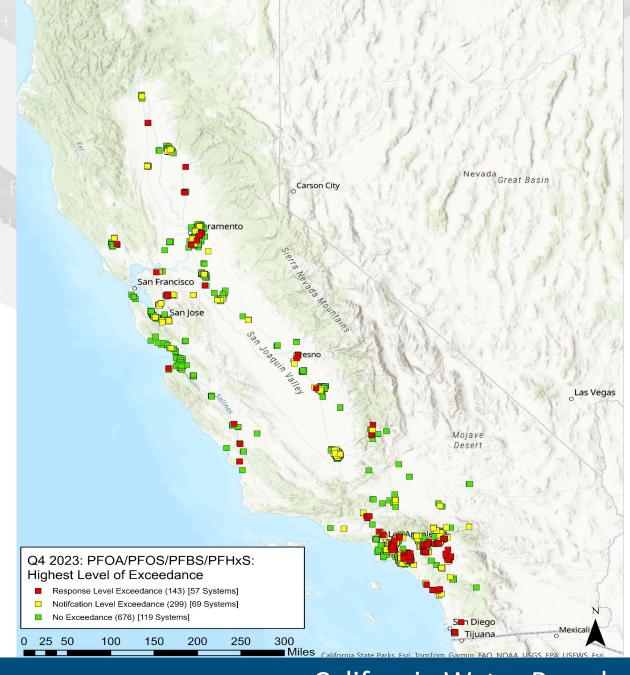
Data downloaded from GeoTracker PFAS Mapping Tool in Feb 2024.

PFAS Median Concentrations are Higher at Sites with AFFF Use but also Similar Analytes are Reported at all Industrial Sources



4th Quarter 2023 Drinking Water Advisory Level Exceedances – Statewide

Greater than 10 ng/L PFOA, 20 ng/L PFHxS, or 40 ng/L PFOS at the well



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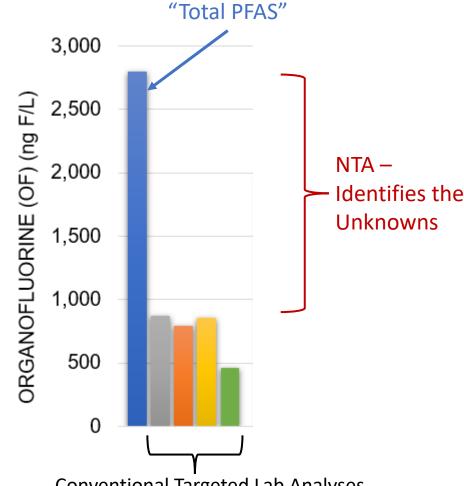
PFAS is underestimated using conventional analytical testing methods

Nine drinking water supply wells sampled

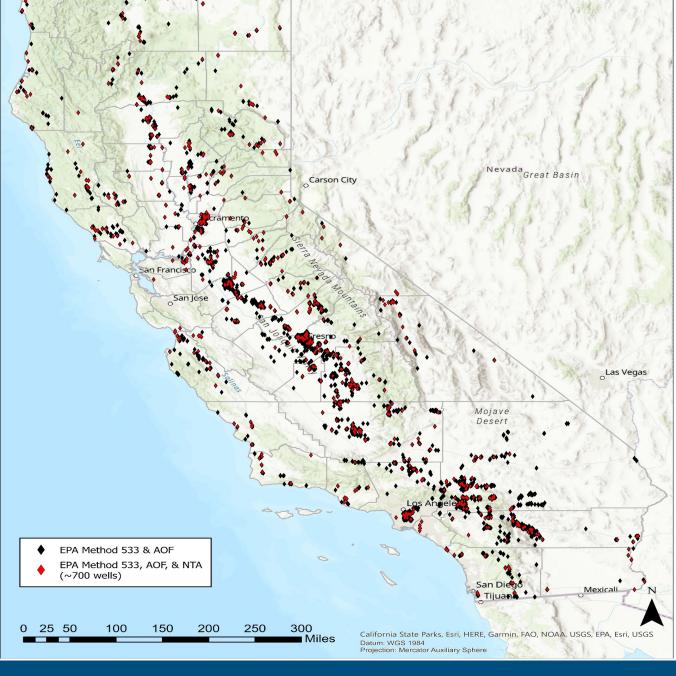
 Samples were analyzed by 5 different PFAS testing methods

in 2021

- Up to 70% of the reported sums of the targeted PFAS were not accounted for in the "total PFAS" concentration
- Non-Target Analysis (NTA) identifies the unknown PFAS structures and abundance relative to other samples



Conventional Targeted Lab Analyses (each analysis included a range of analytes – 18 to 35 PFAS)



AB-178 (Budget Act of 2022)

- Develop and validate a broadspectrum test method for the class of PFAS
- 2. Sample nearly 4,000 public water wells serving disadvantaged and severally disadvantaged communities
- Develop a treatment-based regulatory approach for PFAS as a class

THANK YOU!

Division of Water Quality

Division of Drinking Water

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Water Board's PFAS website: https://www.waterboards.ca.gov/pfas/

DDW's PFAS website: https://www.waterboards.ca.gov/drinking water/certlic/drinkingwater/pfas.html

Water Board's PFAS Mapping Tool: https://geotracker.waterboards.ca.gov/map/pfas_map