

NOTIFICATION LEVEL ISSUANCE

Contaminant(s):	Perfluorooctanesulfonic Acid (PFOS)
Notification Level:	4.0 nanograms per liter (ng/L)
Response Level:	40 nanograms per liter (ng/L), RAA*
Toxicological Endpoint:	Liver tumors in male rats and the structural and biological similarity to perfluorooctanoic acid (PFOA)
* Running Annual Average - Based on the average concentration calculated from quarterly (4) samples.	

FINDINGS:

General Background on Notification/Response Levels and Specific Requirements

1. Health and Safety Code section 116455 authorizes the State Water Resources Control Board (State Water Board) to issue notification and response levels for contaminants in drinking water delivered for human consumption before a maximum contaminant level (MCL) has been adopted. Pursuant to subdivision (k)(2) of section 116271 of the Health and Safety Code, the Deputy Director of the Division of Drinking Water (DDW) is delegated through the State Water Board's authority to issue notification and response levels.
2. Notification levels (NL) are nonregulatory, health-based advisory levels for contaminants that are established as precautionary measures. NLs are typically set at the lowest estimated risk, provided that the analytical capability exists to allow detection of the chemical at or below the lowest concentration associated with the toxicological endpoint.
3. Response levels (RL) are established in conjunction with notification levels and represent the concentration of a drinking water contaminant at which additional steps, beyond notification, are recommended to reduce public exposure.
4. For contaminants with non-cancer health risks, the RL is set at 10 (or a smaller value) times the NL. For contaminants with cancer risks, the response level is set at 100 times the notification level (i.e., 10^{-4} lifetime risk). These factors are considered to provide values consistent with acceptable margins of safety for the protection of public health.
5. The establishment of notification and response levels does not require public water systems to monitor for the contaminant, except when water systems are subject to recycled water regulations at Title 22, California Code of Regulations, division 4, chapter 3, or direct potable reuse regulations at Title 22, California Code of Regulations, division 4, chapter 17,

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article 10. However, some water systems may sample for constituents in addition to those contaminants for which there are MCLs, and if those monitoring results indicate that a notification level has been exceeded, the water system must comply with Health and Safety Code section 116455.

6. Health and Safety Code section 116378 requires community and non-transient non-community water systems, when ordered to monitor for PFAS, to
 - A. Report detected results in the water system's annual consumer confidence report,
 - B. Notify the water system's governing body, any local governing body whose jurisdiction includes drinking water supplied by the water system, and others identified in section 116455 when a notification level is exceeded, and
 - C. Either remove a water source from use or provide public notification within 30 days if a response level is exceeded.
7. In addition to the sections 116378 and 116455 requirements, DDW recommends that a public water system inform its customers and consumers about the presence of the contaminant and any associated health concerns.

Information on the Contaminant and the Issuance

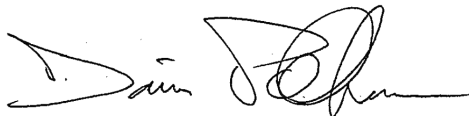
8. PFOS is a member of group of more than 14,000 human-made substances ([U.S. EPA CompTox](#)) called per- and polyfluoroalkyl substances (PFAS). Due to their unique chemistry, they are resistant to heat, water, and oil, and therefore have been widely used as surface coatings and protectant formulations in consumer, commercial, and industrial products including, but not limited to, carpet, home textiles, clothing, food packaging, and non-stick cookware.
9. PFOS has a highly stable eight carbon-fluorine bond structure, which allows it to resist degradation and persist in the environment.
10. In August 2019, OEHHA provided a memorandum and technical document entitled *Notification Level Recommendations, Perfluorooctanoic Acid (PFOA) and Perfluorooctane Sulfonate (PFOS) in Drinking Water*. The recommended notification level of 0.4 ng/L or parts per trillion (ppt) represents the concentration of PFOS in drinking water that would not pose any significant health risk.
11. In August 2019, DDW established an NL and RL for PFOS of 6.5 ng/L and 70 ng/L (for the combined values of PFOS and PFOA), respectively.
12. On February 6, 2020, DDW issued updated drinking water RL of 40 ng/L for PFOS based on a running annual average (RAA).

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13. The former NL was set at 6.5 ng/L, due to the limit of quantitation by the analytical methods at the time. The NL of 4.0 ng/L is based on the fifth federal Unregulated Contaminant Monitoring minimum reporting level.
14. The RL is 100 times the toxicological endpoint established in OEHHA's NL recommendation document. This is historically consistent with the margin of safety for chemicals that are carcinogenic.
15. In addition, U.S. EPA Method 533 requires that within each Extraction Batch, analyze a minimum of one Field Duplicate or one Laboratory Fortified Sample Matrix Duplicate. For the purposes of this method, Field Duplicates are collected to support potential repeat analyses (if the original field sample is lost or if there are QC failures associated with the analysis of the original field sample). DDW recommends that a Field Duplicate is collected, especially when PFOS is expected to be present in field samples.
16. In accordance with section 116456 of the Health and Safety Code, DDW posted the proposed notification and response levels for PFOS on its website, along with OEHHA's recommendation and links to peer-reviewed studies relied upon. DDW provided notice of the proposed notification and response levels, with supporting documentation, via email on July 3, 2025. Documents related to development of the notification and response levels are available at https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/NotificationLevels.html.
17. On August 6, 2025, DDW proposed PFOS notification and response levels at an informational item during the regularly noticed meeting of the State Water Board.

Therefore, the Deputy Director of DDW establishes a notification level of 4.0 ng/L (based on a single confirmed finding) and response level of 40 ng/L (RAA) for PFOS.

Approved:



October 29, 2025

Darrin Polhemus, P.E.
Deputy Director, Division of Drinking Water
State Water Resources Control Board

Date