

# Fifth Unregulated Contaminant Monitoring Rule (UCMR5)

The Safe Drinking Water Act (SDWA), as amended in 1996, requires that once every five years, EPA issues a new list of up to 30 unregulated contaminants from the Contaminant Candidate List (CCL) to be monitored by public water systems (PWSs) through the UCMR. EPA uses the occurrence and exposure data to develop regulatory decisions for contaminants in the public drinking water supply.

## UCMR5 Monitoring Scope

The final UCMR5 rule was published on December 27, 2021, which requires PWSs to collect samples for 29 per- and polyfluoroalkyl substances (PFAS) and lithium (Li), during a 12-month period from January 2023 through December 2025. UCMR5 requires to assess surface water (SW), ground water under the direct influence of surface water (GU), mixed sources (MX) and ground water (GW) systems.

The participating PWSs include:

- 800 randomly selected small PWSs serving fewer than to 3,300 people.
- All small PWSs serving between 3,300 to 10,000 people.
- All large PWSs serving more than 10,000 people.

## UCMR5 Sampling and Reporting Requirements

- Sampling Point Location: All UCMR5 samples are collected at the entry points to the distribution system (EPTDS).
- SW, GU, and MX System Sample Event: Sampling 4 sample events (SE1, SE2, SE3, and SE4) in a 12-month period for all SW, GU, and MX PWSs
- GW System Sample Event: Sampling 2 sample events (SE1 and SE2) in a 12-month period for all GW PWSs.
- Field Reagent Blanks must be collected at each sampling point for each PFAS method (EPA 537.1 and 533).
- 27 data elements required for data upload. It is very important to provide accurate PWS and sample information while sampling.



# Key UCMR5 Dates and Important Actions

## Six months prior to scheduled sample collection

- Large GW PWSs must submit either an approved ground water representative monitoring plan (GWRMP) from a prior UCMR cycle, or a new proposed GWRMP
- PWSs scheduled for sample collection in 2023 are encouraged to submit a new proposed GWRMP by December 31, 2022
- Changes to inventory data in SDWARS that impact a PWS's representative plan must be reported within 30 days of the change.

## By December 31, 2022

- PWSs are required to establish a CDX/SDWARS account

## After December 31, 2022

- Large PWSs are required to notify EPA:
  - of sampling location and inventory changes
  - if unable to sample according to the original schedule

## Deadlines for reporting UCMR5 Monitoring Results

- Laboratories post monitoring results to SDWARS within 60 calendar days of sample collection for small PWSs.
- Laboratories post monitoring results to SDWARS within 90 days of sample collection for large PWSs.
- Large PWSs may review and approve data within 30 days of lab posting data.

Have questions about UCMR5 Testing? Contact Us.

**DrinkingWater@ET.EurofinsUS.com**

[www.EurofinsUS.com/UCMR5](http://www.EurofinsUS.com/UCMR5)



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## UCMR5 Contaminants, Analytical Methods, and Minimum Reporting Levels

Contaminant	CASRN	Minimum Reporting Level	Analytical Methods
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	0.005 µg/L	EPA 533
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	0.002 µg/L	EPA 533
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	0.003 µg/L	EPA 533
Hexafluoropropylene oxide dimer acid (HFPO DA)	13252-13-6	0.005 µg/L	EPA 533
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	151772-58-6	0.02 µg/L	EPA 533
Perfluorobutanoic acid (PFBA)	375-22-4	0.005 µg/L	EPA 533
Perfluorobutanesulfonic acid (PFBS)	375-73-5	0.003 µg/L	EPA 533
1H,1H, 2H, 2H-perfluorodecane sulfonic acid (8:2FTS)	39108-34-4	0.005 µg/L	EPA 533
Perfluorodecanoic acid (PFDA)	335-76-2	0.003 µg/L	EPA 533
Perfluorododecanoic acid (PFDoA)	307-55-1	0.003 µg/L	EPA 533
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	113507-82-7	0.003 µg/L	EPA 533
Perfluoroheptanesulfonic acid (PFHpS)	375-92-8	0.003 µg/L	EPA 533
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.003 µg/L	EPA 533
1H,1H, 2H, 2H-perfluorohexane sulfonic acid (4:2FTS)	757124-72-4	0.003 µg/L	EPA 533
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	0.003 µg/L	EPA 533
Perfluorohexanoic acid (PFHxA)	307-24-4	0.003 µg/L	EPA 533
Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	0.004 µg/L	EPA 533
Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	0.003 µg/L	EPA 533
Perfluorononanoic acid (PFNA)	375-95-1	0.004 µg/L	EPA 533
1H,1H, 2H, 2H-perfluorooctane sulfonic acid (6:2FTS)	27619-97-2	0.005 µg/L	EPA 533
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	0.004 µg/L	EPA 533
Perfluorooctanoic acid (PFOA)	335-67-1	0.004 µg/L	EPA 533
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.003 µg/L	EPA 533
Perfluoropentanesulfonic acid (PFPeS)	2706-91-4	0.004 µg/L	EPA 533
Perfluoroundecanoic acid (PFUnA)	2058-94-8	0.002 µg/L	EPA 533
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2991-50-6	0.005 µg/L	EPA 537.1
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2355-31-9	0.006 µg/L	EPA 537.1
Perfluorotetradecanoic acid (PFTA)	376-06-7	0.008 µg/L	EPA 537.1
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.007 µg/L	EPA 537.1
Lithium	7439-93-2	9 µg/L	EPA 200.7; SM 3120 B (2017); SM 3120 B-99 (1999); ASTM D1976-20