

Unregulated Contaminant Monitoring Rule 3 (UCMR 3)

Title: Revisions to the Unregulated Contaminant Monitoring Rule for Public Water Systems; 77 FR 26072, May 2, 2012. (Title 40 CFR 141.35 and Title 40 CFR 141.40)

Under UCMR3, selected public water systems or the EPA will conduct sampling and Analysis for: Assessment Monitoring (List 1), Screening Survey (List 2) and/or Pre-Screen Testing (List 3)

The State of Louisiana is assisting the EPA in this carrying out this program.

More information can be found at <http://new.dhh.louisiana.gov/index.cfm/page/1521>

UCMR 3 Sampling Responsibility Overview for Selected Systems

- **Large PWSs (Population: 10,000+)**
 - PWSs must pay for UCMR3 sampling
 - Only EPA Approved Labs can be utilized
- **Small PWSs**
 - EPA is paying for analysis.
 - Sample kits are shipped out from GLEC (EPA-contractor) a few weeks prior to required sample collection
 - Kits will be sent directly to the PWS to have collection and submission handled by a system Operator

Reporting Responsibility

- **Detections must be reported in Consumer Confidence Report (CCR)**

(UCMR 3) Assessment Monitoring - List 1

□ **Purpose:** To collect occurrence data for contaminants suspected to be present in drinking water but that do not have health-based standards set under the Safe Drinking Water Act (SDWA). Assessment Monitoring targets contaminants that are analyzed with methods that utilize existing and widely used technology. The UCMR program is the primary source of drinking water contaminant occurrence data used by EPA in regulatory determinations.

□ **Description:** **UCMR 3** includes **Assessment Monitoring** for 21 chemical contaminants using six EPA-approved analytical methods and four equivalent consensus methods. Public water systems (PWSs) subject to Assessment Monitoring will sample within a 12-month period during 2013 - 2015.

□ **Utilities Affected:** Community water systems (CWSs) and non-transient non-community water systems (NTNCWSs) with more than 10,000 retail customers and a representative sample of 800 systems serving 10,000 or fewer retail customers are required to conduct Assessment Monitoring.

Assessment Monitoring Guidelines

Time frame: One consecutive 12-month period during January 2013 - December 2015 (monitoring can span more than one calendar year, as long as conducted during a consecutive 12-month period).

Frequency: *Ground Water:* Monitoring will occur twice in one consecutive 12-month period. Sample events must occur 5 - 7 months apart.

Surface Water or GUDI: Monitoring will occur in 4 consecutive quarters, with sampling events occurring 3 months apart.

Location: Each entry point to the distribution system (EPTDS) for all contaminants, *as well as distribution system maximum residence time sampling locations for chromium, chromium-6, cobalt, molybdenum, strontium, vanadium and chlorate.*

Laboratories: Samples must be analyzed by EPA-approved laboratories. EPA-approved laboratories will be listed on the UCMR website at

<http://water.epa.gov/lawsregs/rulesregs/sdwa/ucmr/ucmr3/laboratories.cfm>.

Assessment Monitoring Contaminants – List 1

- Perfluorinated Chemicals (EPA Method 537)

- Perfluorooctane sulfonate (PFOS)
- Perfluorooctanoic acid (PFOA)
- Perfluoroheptanoic acid (PFHpA)
- Perfluorononanoic acid (PFNA)
- Perfluorobutane sulfonic acid (PFBS)
- Perfluorohexane sulfonic acid (PFHxS)

- Metals (EPA Method 200.8)

- Cobalt
- Molybdenum
- Strontium
- Vanadium
- Chromium

- Volatile Organic Compounds (EPA Method 524.3)

- 1,1-Dichloroethane
- 1,2,3-Trichloropropane
- 1,3-Butadiene
- Bromochloromethane
- Chlorodifluoromethane
- Chloromethane
- Methyl bromide

- EPA Method 522

- 1,4-Dioxane

- EPA Method 300.1

- Chlorate

Screening Survey Monitoring – List 2

Purpose: To collect occurrence data for contaminants suspected to be present in drinking water but that do not have health-based standards set under the Safe Drinking Water Act (SDWA). Screening Survey monitoring addresses contaminants with analytical methods that rely on sophisticated technology that may not be as widely used in drinking water laboratories. The UCMR program is the primary source of drinking water contaminant occurrence data used by EPA in regulatory determinations.

Description: UCMR 3 includes Screening Survey monitoring for seven hormones using an EPA-approved analytical method. Public water systems (PWSs) subject to Screening Survey monitoring will sample within a 12-month period during 2013 - 2015.

Utilities Affected: Applicability is based on retail population served for community water systems (CWSs) and non-transient non-community water systems (NTNCWSs). Screening Survey monitoring will be conducted by all systems serving more than 100,000 people; 320 randomly selected systems serving 10,001 to 100,000; and 480 randomly selected systems serving 10,000 or fewer.

Screening Survey Monitoring Guidelines

Time frame: One consecutive 12-month period during January 2013 - December 2015 (monitoring can span more than one calendar year, as long as conducted during a consecutive 12-month period).

Frequency: *Ground Water:* Monitoring will occur twice in a consecutive 12-month period; sample events must occur 5 - 7 months apart.

Surface Water or GUDI: Monitoring will occur in 4 consecutive quarters, with sampling events occurring 3 months apart.

Location: Each entry point to the distribution system (EPTDS) for all contaminants.

Laboratories: Samples must be analyzed by EPA-approved laboratories. EPA-approved laboratories will be listed on the UCMR website at

<http://water.epa.gov/lawsregs/rulesregs/sdwa/ucmr/ucmr3/laboratories.cfm>.

Screening Survey Monitoring of List 2 Contaminants

Pharmaceuticals (EPA Method 539)

17- α -Ethinylestradiol

17- β -Estradiol

Equilin

Estriol

Estrone

Testosterone

4-Androstene-3,17-dione

Pre-Screen Testing – List 3

Purpose: To collect occurrence data for contaminants suspected to be present in drinking water but that do not have health-based standards set under the Safe Drinking Water Act (SDWA). Pre-Screen Testing addresses contaminants that are analyzed with methods that utilize very new or specialized technology. The UCMR program is the primary source of drinking water contaminant occurrence data used by EPA in regulatory determinations.

Description: UCMR 3 includes Pre-Screen Testing for two List 3 viruses (enterovirus and norovirus), using an analytical method with two detection assays. Monitoring will also include five pathogen indicators. EPA will sample for public water systems (PWSs) subject to Pre-Screen Testing within a 12-month period during 2013 - 2015.

Utilities Affected: A representative sample of 800 non-disinfecting ground water systems serving 1,000 or fewer retail customers, including community water systems (CWSs), non-transient non-community water systems (NTNCWSs) and transient systems are required to participate in Pre-Screen Testing. EPA will pay for all associated sampling and analysis costs.

Monitoring for Pre-Screen Testing

Time frame: One consecutive 12-month period during January 2013 - December 2015 (monitoring can span more than one calendar year, as long as conducted during a consecutive 12-month period).

Frequency: Monitoring will occur twice in a consecutive 12-month period; sample events must occur 5 - 7 months apart.

Location: Each entry point to the distribution system (EPTDS) for all contaminants.

Laboratories: If any system is notified by EPA or its state that it has been selected for Pre-Screen Testing, the system must permit EPA to sample and analyze for List 3 contaminants and pathogen indicators. Monitoring and analyses are organized and paid for by EPA through direct contracts.

Pre-Screen Testing of List 3 Contaminants

- Microbials
 - 2 viruses
 - Enterovirus (qPCR & cell culture)
 - Norovirus (qPCR)
 - “Indicator organisms”
 - Total coliform
 - *E. coli*
 - Enterococci
 - Coliphage
 - Aerobic spores

Questions ??

- Additional Information can be found at
 - <http://new.dhh.louisiana.gov/index.cfm/page/1521>
- Systems that have been selected to participate in UCMR3 can be found here:
 - [http://new.dhh.louisiana.gov/assets/oph/Center-EH/engineering/UCMR3 LA Systems.pdf](http://new.dhh.louisiana.gov/assets/oph/Center-EH/engineering/UCMR3_LA_Systems.pdf)
- Contact John Z. French at john.french@la.gov or 225-342-7392