**Section 611.612 Monitoring Requirements for Old Inorganic MCLs**

a) Analyses for the purpose of determining compliance with the old inorganic MCLs of Section 611.300 are required as follows:

1) Analyses for all CWSs utilizing surface water sources must be repeated at yearly intervals.

2) Analyses for all CWSs utilizing only groundwater sources must be repeated at three-year intervals.

3) This subsection (a)(3) corresponds with 40 CFR 141.23(1)(3), which requires monitoring for the repealed old MCL for nitrate at a frequency specified by the state. The Board has followed the USEPA lead and repealed that old MCL. This statement maintains structural consistency with USEPA rules.

4) This subsection (a)(4) corresponds with 40 CFR 141.23(1)(4) ,which authorizes the state to determine compliance and initiate enforcement action. This statement maintains structural consistency with USEPA rules.

b) If the result of an analysis made under subsection (a) indicates that the level of any contaminant listed in Section 611.300 exceeds the old MCL, the supplier must report to the Agency within seven days and initiate three additional analyses at the same sampling point within one month.

c) When the average of four analyses made under subsection (b), rounded to the same number of significant figures as the old MCL for the substance in question, exceeds the old MCL, the supplier must notify the Agency and give notice to the public under Subpart V. Monitoring after public notification must be at a frequency designated by the Agency by a SEP and must continue until the old MCL has not been exceeded in two successive samples or until a different monitoring schedule becomes effective as a condition to a variance, an adjusted standard, a site specific rule, an enforcement action, or another SEP.

d) This subsection (d) corresponds with 40 CFR 141.23(o), which pertains to monitoring for the repealed old MCL for nitrate. This statement maintains structural consistency with USEPA rules.

e) This subsection (e) corresponds with 40 CFR 141.23(p), which pertains to the use of existing data up until a date long since expired. This statement maintains structural consistency with USEPA rules.

f) Analyses conducted to determine compliance with the old MCLs of Section 611.300 must be made in accordance with the following methods, incorporated by reference in Section 611.102, or alternative methods approved by the Agency under Section 611.480. Criteria for analyzing iron, manganese, and zinc samples with digestion or directly without digestion, and other analytical test procedures are contained in USEPA Technical Notes (94), incorporated by reference in Section 611.102.

1) Fluoride. The methods specified in Section 611.611(c) must apply for the purposes of this Section.

2) Iron

A) Atomic Absorption, Direct Aspiration Technique. SM 3111 B (89), SM 3111 B (93), or SM 3111 B (99).

B) Atomic Absorption, Graphite Furnace Technique. SM 3113 B (89), SM 3113 B (93), SM 3113 B (99), SM 3113 B (04), or SM 3113 B (10).

C) Atomic Absorption, Inductively Coupled Plasma Technique. SM 3120 B (89), SM 3120 B (93), or SM 3120 B (99).

D) Inductively Coupled Plasma Arc Furnace Technique. USEPA 200.7 (94).;

E) Atomic Absorption, Platform Furnace Technique. USEPA 200.9 (94).

F) Axially Viewed Inductively Coupled Plasma-Atomic Emission Spectrometry (AVICP-AES). USEPA 200.5 (03).

3) Manganese

A) Atomic Absorption, Direct Aspiration Technique. SM 3111 B (89), SM 3111 B (93), or SM 3111 B (99).

B) Atomic Absorption, Graphite Furnace Technique. SM 3113 B (89), SM 3113 B (93), SM 3113 B (99), SM 3113 B (04), or SM 3113 B (10).

C) Atomic Absorption, Inductively Coupled Plasma Technique. SM 3120 B (89), SM 3120 B (93), or SM 3120 B (99).

D) Inductively Coupled Plasma Arc Furnace Technique. USEPA 200.7 (94).

E) Inductively Coupled Plasma-Mass Spectrometry. USEPA 200.8 (94).

F) Atomic Absorption, Platform Furnace Technique. USEPA 200.9 (94).

G) Axially Viewed Inductively Coupled Plasma-Atomic Emission Spectrometry (AVICP-AES). USEPA 200.5 (03).

4) Zinc

A) Atomic Absorption, Direct Aspiration Technique. SM 3111 B (89), SM 3111 B (93), or SM 3111 B (99).

B) Atomic Absorption, Inductively Coupled Plasma Technique. SM 3120 B (89), SM 3120 B (93), or SM 3120 B (99).

C) Inductively Coupled Plasma Arc Furnace Technique. USEPA 200.7 (94).

D) Atomic Absorption, Platform Furnace Technique. USEPA 200.8 (94).

E) Axially Viewed Inductively Coupled Plasma-Atomic Emission Spectrometry (AVICP-AES). USEPA 200.5 (03).

BOARD NOTE: The provisions of subsections (a) through (e) derive from 40 CFR 141.23(l) through (p). Subsections (f)(2) through (f)(4) relate exclusively to additional State requirements. The Board retained subsection (f) to set forth methods for the inorganic contaminants for which there is a State-only MCL. The methods specified are those set forth in 40 CFR 143.4(b) and appendix A to subpart C of 40 CFR 141, for secondary MCLs. The Board has not separately listed the following approved alternative methods from Standard Methods Online that are the same version as a method that appears in a printed edition of Standard Methods. Use of the Standard Methods Online copy is acceptable.

Standard Methods Online, Method 3111 B-99 appears in the 21st, 22nd, and 23rd editions as Method 3111 B. In this Section, this appears as SM 3111 B (99).

Standard Methods Online, Method 3113 B-99 appears in the 21st edition as Method 3113 B. In this Section, this appears as SM 3113 B (99).

Standard Methods Online, Method 3113 B-10 appears in the 22nd and 23rd editions as Method 3113 B. In this Section, this appears as SM 3113 B (10).

Standard Methods Online, Method 3120 B-99 appears in the 21st edition as Method 3120 B. In this Section, this appears as SM 3120 B (99).

(Source: Amended at 44 Ill. Reg. 6996, effective April 17, 2020)