

ILLINOIS POLLUTION CONTROL BOARD  
August 19, 2004

IN THE MATTER OF: )  
 ) R04-13  
SDWA UPDATE, USEPA AMENDMENTS ) (Identical-in-Substance  
(July 1, 2003 though December 31, 2003) ) Rulemaking - Public Water Supply)

Adopted Rule. Final Order.

OPINION AND ORDER OF THE BOARD (by T.E. Johnson):

The Board today updates the Illinois regulations that are “identical in substance” to drinking water regulations adopted by the United States Environmental Protection Agency (USEPA). The USEPA rules implement Sections 1412(b), 1414(c), 1417(a), and 1445(a) of the federal Safe Drinking Water Act (SDWA) (42 U.S.C. §§ 300g-1(a), 300g-3(c), 300g-6(a), and 300j-4(a) (1994)). This docket includes federal SDWA amendments that USEPA adopted in the period July 1, 2003 though December 31, 2003. The substantive amendments involved in this proceeding relate to a notice of change in a key USEPA policy that determines the applicability of the SDWA regulations under certain circumstances. Another amendment in this proceeding updates the name of the entity from which material incorporated by reference is available. In this order, the Board adopts amendments to 35 Ill. Adm. Code 611 with no substantive change from those proposed on May 20, 2004.

Sections 7.2 and 17.5 of the Environmental Protection Act (Act) (415 ILCS 5/7.2 and 17.5 (2002)) provide for quick adoption by the Board of regulations that are identical in substance to federal regulations that USEPA adopts to implement Sections 1412(b), 1414(c), 1417(a), and 1445(a) of the federal SDWA. Section 17.5 also provides that Title VII of the Act and Section 5 of the Administrative Procedure Act (APA) (5 ILCS 100/5-35 and 5-40 (2002)) do not apply to the Board’s adoption of identical-in-substance regulations. The federal SDWA regulations are found at 40 C.F.R. 141 through 143.

**FEDERAL ACTIONS CONSIDERED IN THIS RULEMAKING**

The following briefly summarizes the federal actions considered in this rulemaking.

**Docket R03-13: July 1, 2003 though December 31, 2003 SDWA Amendments**

USEPA did not amend the federal SDWA regulations during the period July 1, 2003 though December 31, 2003. Rather, USEPA published a notice of its policy interpreting a key provision of the SDWA itself that determines the applicability of the SDWA regulations. This policy revision is summarized below:

**68 Fed. Reg. 74233 (December 23, 2003)**

USEPA changed its policy and determined that a property owner that “submeters” water, *i.e.*, that distributes water to a limited number of tenants on its own property, does not

“sell” water within the meaning of Section 1411(3) of SDWA (42 U.S.C. 300g(3) 2000). Thus, such a property owner is not a public water supply to which the SDWA requirements apply.

**No Other Federal Actions Having a Direct Impact on the Illinois SDWA (Drinking Water) Regulations**

In addition to the amendments to the federal SDWA regulations, amendments to certain other federal regulations occasionally have an effect on the Illinois drinking water rules. Most notably, 35 Ill. Adm. Code 611.102 includes the incorporation of Appendices B and C of 40 C.F.R. 136 by reference. These are federal Clean Water Act methods for analysis of contaminants in water.

As of the date of this proposal for public comment, the Board has found one set of amendments to the analytical methods for analysis of contaminants in water in 40 C.F.R. 136 and a set of corrections to those amendments.

**68 Fed. Reg. 43272 (July 21, 2003)**

USEPA approved new methods for microbiological analysis of water and wastewater.

**68 Fed. Reg. 54934 (September 19, 2003)**

USEPA corrected its July 21, 2003 approval of new methods for microbiological analysis of water and wastewater

Examination of the July 21, 2003 amendments and September 19, 2003 corrections reveals that none of the amendments require Board action. The segments of 40 CFR 136 amended by USEPA are different from those incorporated by reference in Section 611.102. No Board action will be required at this time to update the version of 40 C.F.R. 136 incorporated by reference in to include the amendments.

**Summary Tabulation of the Federal Actions Included in This Docket**

December 23, 2003 (68 Fed. Reg. 74233)	Revised USEPA policy relative to the applicability of the SDWA requirements to a property owner that “submeters,” rather than “sells,” water to a limited number of tenants on its own property.
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**PUBLIC COMMENTS**

The Board adopted a proposal for public comment in this matter on May 20, 2004. A Notice of Proposed Amendments appeared in the June 18, 2004 issue of the *Illinois Register* at 28 Ill. Reg. 8403. The Board received public comments on the proposal for a period of 45 days following its publication in the *Illinois Register*, until August 2, 2004. The Board now adopts the amendments, making any necessary changes made evident through the public comments.

At the time of adoption of the May 20, 2004 proposal for public comment, the Board had already received two public comments relating to this proceeding.

- PC 1 Letter dated March 22, 2004 from Teresa Smith, Ph. D., Central Region Microbiology Field Specialist, EMD Chemicals Inc.
- PC 2 E-mail to M. McCambridge (Board hearing officer in this matter) dated January 28, 2004 from Lou Allyn Byus, Assistant Manager, Field Operations, Division of Public Water Supply, Illinois Environmental Protection Agency (Agency).

In PC 1, EMD Chemicals Inc. requests that the Board update their company name in the incorporations by reference section of the regulations. Discussion of this comment and the amendments that the Board has undertaken in response to it appears in the segment of the discussion that begins on page 6 of this opinion.

In PC 2, the Agency suggested language for a Board note to append to the regulations. The Agency suggested language to describe how it intends to implement the USEPA policy revision of December 23, 2004. This comment and the Board's response are considered in the segment of the discussion relating to the federal action of December 23, 2003.

After adoption of the May 20, 2004 proposal, during the public comment period, the Board received the following documents:

- Line Numbered Version from the Joint Committee on Administrative Rules (JCAR), received June 14, 2004 for Part 611.
- PC 3 E-mail to Michael J. McCambridge, Attorney, by Lou Allyn Byus, Illinois Environmental Protection Agency, Division of Public Water Supply, dated June 15, 2004.

JCAR suggested two corrections to the text of the amendments in its Line Numbered Version. This opinion does not include discussion of any of the JCAR suggestions, but the table that begins on page 8 itemizes the change made in the text and indicates the source of each change.

In PC 3, Ms. Byus indicated that the Agency reviewed the text of the proposed amendments, and found them satisfactory. Ms. Byus expressed doubt that the Agency would comment further on the proposed amendments.

### **DISCUSSION**

The following discussion begins with a description of the types of deviations the Board makes from the literal text of federal regulations in adopting identical-in-substance rules. It is followed by a discussion of the amendments and actions undertaken in direct response to the federal actions involved in this proceeding. This first series of discussions is organized by federal subject matter, generally appearing in chronological order of the relevant *Federal*

*Register* notices involved. Finally, this discussion closes with a description of the amendments and actions that are not directly derived from the federal actions.

### **Discussion of the Federal Action**

#### **Applicability of the SDWA Requirements to Submetered Properties—Section 611.100**

On December 23, 2003 (68 Fed. Reg. 74233), USEPA announced that it had revised its policy relative to the applicability of the SDWA requirements under certain limited circumstances. USEPA recently determined that the national primary drinking water standards (NPDWRs) do not apply to a landlord that submeters the water consumed by its tenants and bills them for the water consumed with some limitations. USEPA believes that apartment buildings and other property types that share characteristics of an apartment building should be subject to the revised policy.

The NPDWRs apply to a “public water system” (PWS), which is a system for provision of water for human consumption through pipes or constructed conveyances to fifteen or more service connections or to 25 or more persons. Section 1401(1) and (4) of SDWA (42 U.S.C. 300f(1) and (4) (2000)). They do not apply, however, to a PWS that (1) consists only of distribution and storage facilities; (2) obtains all of its water from a regulated PWS; (3) does not sell water to any person; and (4) is not a carrier that conveys passengers in interstate commerce. Section 1411 of SDWA (42 U.S.C. 300g (2000)). The revised policy relates to the third limitation of this exemption: the system may not “sell” the water. The revised policy distinguishes “submetering” water from “selling” it.

USEPA stated that the State should make any applicability determination based on the characteristics of the system. USEPA stated that the person that submeters the water must receive all its water from a single regulated PWS to qualify for exemption. Factors listed by USEPA included the existence of a limited distribution system with no known backflow or cross connection issues; the presence of most of the plumbing in buildings, rather than in the ground; and single ownership (or association ownership) of the property. USEPA cited apartment buildings, co-ops, and condominiums as examples of eligible properties. Persons interested in the details of the federal amendments should consult the *Federal Register* notice of December 23, 2003.

USEPA did not amend its regulations when it published this revised policy relating to the “sale” of water under Section 1311 of SDWA. The Board notes that 40 C.F.R. 141.3 is nearly identical to Section 1311 of SDWA. USEPA did not mention section 141.3 of the SDWA regulations in announcing its revised policy, but the near identity of language would indicate that USEPA has revised its interpretation of section 141.3.

Section 611.100(d) of the Illinois rules is derived from 40 C.F.R. 141.3. The federal policy revision relating to submetered properties alters the scope and meaning of 40 C.F.R. 141.3 and Illinois Section 611.100(d). In the past, when USEPA has undertaken extra-regulatory actions that affect the meaning and implementation of its regulations, the Board has responded

by adding a Board note to the affected segment of the rules. Examples in the SDWA regulations include the following Board notes:

Section 611.126 (noting a USEPA interpretation that a certain industry standard was “established in accordance with 42 USC 300g-6(e),” as required by 40 C.F.R. 141.43(d)(3));

Section 611.311 (noting an indefinite USEPA stay of the maximum contaminant levels (MCLs) for three contaminants, even though the MCLs remain in the regulations);

Section 611.330(h), footnote 2 (noting that USEPA refers to an extrinsic document to add meaning to its regulations);

Section 611.330(h), limitation note (c) (noting a USEPA reference to a table to limit the meaning of its regulations and citing the extrinsic source that sets forth the table); and

Section 611.356(g)(1)(A)(ii) (noting a USEPA interpretation that a certain industry standard was “established in accordance with 42 USC 300g-6(e),” as required by 40 C.F.R. 141.86(g)(1)(i)(B)).

Section 17.5 of the Act (415 ILCS 5/17.5 (2002)) requires the Board to adopt regulations that are “identical in substance” to the federal NPDWRs and to amendments to the federal NPDWRs. The December 23, 2003 policy revision that distinguishes a person who “submeters” water from one who “sells” it does not involve a regulatory amendment. Nevertheless, it embodies a change in federal policy and alters the meaning and implementation of the federal rules. As the Board has done in the past, the Board now interprets the December 23, 2003 policy revision as an amendment to the federal regulations that is within the scope of our mandate under Section 17.5 of the Act. *See, e.g., SDWA Update, USEPA Regulations (July 1, 2002 through December 31, 2002)*, R03-15 (Oct. 2, 2003) at pp. 9-11 (amending a Board note to Section 611.311 about the indefinite federal stay of the regulations); *SDWA Update, USEPA Regulations (July 1, 2000 through December 31, 2000)*, R01-20 (Oct. 4, 2001) at p. 6 (adding language to footnote 2 and limitation note (c) in Section 611.330(h)); *SDWA Update, USEPA Regulations (January 1, 2000 through June 30, 2000)*, R01-7 (Jan. 1, 2001) at p. 8 (adding the name of a national standard to the text of Sections 611.126 and 611.356(g) based on a *Federal Register* notice); *SDWA Update, USEPA Regulations (June 1, 1991 through December 31, 1991)*, R92-3 (May 5, 1993) (adding a Board note to Section 611.311 about the indefinite federal stay of the regulations).

Although USEPA did not formally amend the text of the rules, its policy is an “agency statement of general applicability that implements, applies, interprets, or prescribes law or policy,” as stated in the definition of “rule” at Section 1-70 the Administrative Procedure Act (5 ILCS 100/1-70 (2002)). The Board has continued the past practice of adding a Board note to the affected segment of the regulations to indicate the federal action. The Board has added that note to the affected segment of the text, which is Section 611.100(d).

The Agency, in PC 1, suggested that the Board include an explanation of how the Agency intends to implement the revised federal policy relative to submetered properties. The Agency drew most of its explanation directly from the December 23, 2003 *Federal Register* notice. The Agency suggested the following language in the Board note appended to Section 611.100:

BOARD NOTE: On December 23, 2003, USEPA published a re-interpretation of submetering of a water system for the purposes of tracking water use and consumption. A submetered public water system is not considered to “sell” water under the criteria for exemption. The Agency will determine whether or not a public water system meets the criteria for submetering based upon the following: A submetered public water system must purchase all water from a public water system subject to Section 611 regulations. A submetered public water system must have a limited distribution system, with the no history or presence of unprotected cross-connections and a majority of its plumbing within a structure rather than underground. A submetered public water system must be owned by a single/individual or an association of property owners, as in the case of a condominium or co-op. A public water system that serves a large distribution system, a large consumer population, or a mixed commercial/industrial population does not qualify as a submetered public water system. Examples of public water systems that do not qualify as submetered public water systems are military installations or facilities and large mobile home parks

The Board adopts an alternative that more closely tracks the federal language. The revised policy states that USEPA will rely on the State to make the determination whether a property owner “submeters” or “sells” water. USEPA then recites examples when water is “submetered” and when it is “sold.” The Board prefers to allow the federal policy to speak for itself as to how it limits the State’s discretion in making the determination. The Board’s intent is to avoid imposing limits on Agency discretion where USEPA intended only to provide examples to guide State determinations. The Board-adopted note reads as follows (with underlining and overstrike indicating the revisions to the existing Board note):

BOARD NOTE: Derived from 40 CFR 141.3-(2002) (2003). The text of 40 CFR 141.3 is nearly identical to Section 1411 of the federal SDWA (42 USC 300g). On December 23, 2003 (at 68 Fed. Reg. 74233), USEPA announced a change in its policy relating to Section 1411. USEPA determined that a property owner that is not otherwise subject to the SDWA national primary drinking water standards “submeters” water, and does not “sell” water within the meaning of Section 1411(3) if the property owner meters water water to tenants on its property and bills the tenants for the water. USEPA charged the State with determining whether water is “submetered” or “sold” in a particular situation. USEPA stated that eligibility for exclusion requires that the owner obtain water from a regulated water system. USEPA set forth factors for consideration to aid the State in making such a determination: the property has a limited distribution system with no known backflow or cross-connection issues; the majority of the plumbing is within a structure, rather than in the ground; and property ownership is single or within an association of owners. USEPA cited apartment buildings, co-ops, and condominiums as examples of eligible properties. USEPA further stated that it does not intend the

policy to apply to a large distribution system, to one that serves a large population, or one that serves a mixed commercial and residential population. USEPA cited “many military installations/facilities” and large mobile home parks as examples of systems to which the policy would not apply.

In summary, the Board incorporated the December 23, 2003 federal policy revision relating to “submetered” water into the Illinois SDWA regulations by adding a Board note reference to the USEPA policy revision at Section 611.100(d), which corresponds with the language of Section 1411 of SDWA. The Board requested comment on the addition of the Board note. Specifically, the Board requested comment on the language chosen to indicate the federal policy revision. The Board received only PC 3 from the Agency expressing satisfaction with the rule as proposed and stating that the Agency would not comment further.

### **Updating the Name of EMD Chemicals--Section 611.102**

In PC 1, EMD Chemicals Inc. requests that the Board update its company name in the incorporations by reference section of the regulations. EMD Chemicals, formerly named EM Science, produces two methods for microbiological analysis of water that are approved by USEPA. The methods are incorporated by reference in Section 611.102.

The Board uses this opportunity to update the three appearances of “EM Science” to “EMD Chemicals” in that Section. The Board invited comment on the proposed name change. The Board received no comments in this regard.

### **Discussion of Miscellaneous Housekeeping Amendments**

The tables below list numerous corrections and amendments that are not based on current federal amendments. The first table (beginning immediately below) includes deviations made in this Proposal for Public Comment from the verbatim text of the federal amendments. The second table (beginning immediately after Table 1 below) contains corrections and clarifications that the Board made in the base text involved in this proposal. The amendments listed in this second table are not directly derived from the current federal amendments. Some of the entries in these tables are discussed further in appropriate segments of the general discussion beginning at page 4 of this opinion. Table 3 (beginning on page 8 below) is a listing of revisions made to the text of the amendments from that proposed and set forth in the Board’s opinion and order of May 20, 2004. Table 3 indicates the changes made, as well as the source that suggested each of the changes. Table 4 (on page 9 below) indicates suggested revisions that the Board has not made in adopting these amendments. Each entry gives a brief explanation why the Board did not incorporate the suggested change.

**Table 1:  
Deviations from the Text of the Federal Amendments**

Illinois Section	40 C.F.R. Section	Revision(s)
611.100(d) Board note	40 C.F.R. 141.3, 42 U.S.C. 300g, and December 23, 2003 <i>Federal Register</i> notice of revised policy	Explained the relationship among Section 1411 of SDWA (42 U.S.C. 300g), 40 C.F.R. 141.3, and 35 Ill. Adm. Code 611.100(d); added a reference to and an explanation of the federal policy change relating to “submetered” water

**Table 2 :  
Board Housekeeping Amendments**

Section	Source	Revision(s)
611.100(b)	Board	Moved the period after “requirements” inside the closing quotation mark
611.100(c)	Board	Moved the comma after “suppliers” inside the closing quotation mark
611.100(c) Board note	Board	Updated the citation to the <i>Code of Federal Regulations</i> to the most recent edition
611.100(d)(1)	Board	Added “the PWS” to form an complete sentence
611.100(d)(2)	Board	Added “the PWS” to form an complete sentence
611.100(d)(3)	Board	Added “the PWS” to form an complete sentence
611.100(d)(4)	Board	Added “the PWS” to form an complete sentence
611.100(d) Board note	Board	Updated the citation to the <i>Code of Federal Regulations</i> to the most recent edition
611.102(a) “Membrane Filter . . .”	EMD Chemicals	Changed “EM Science” to “EMD Chemicals Inc.”
611.102(a) “Readycult Coliforms . . .”	EMD Chemicals	Changed “EM Science” to “EMD Chemicals Inc.”
611.102(b) “EMD Chemicals Inc.”	EMD Chemicals	Changed “EM Science” to “EMD Chemicals Inc.”

Table 3:  
Revisions to the Text of the Proposed Amendments in Final Adoption

Section Revised	Source(s) of Revision(s)	Revision(s)
611.100(d) Board note	JCAR	Corrected “meters water water” to “meters water”



Table 4  
Requested Revisions to the Text of the Proposed Amendments Not Made in Final  
Adoption

Section Affected	Source(s) of Request: Requested Revision(s)	Explanation
611.100(d) Board note	JCAR: Change the semicolon before “and property ownership” to a comma	A semicolon is appropriate for separating the elements of a series in which one or more elements contain a comma, as appears here before the parenthetical “rather than in the ground”

### ORDER

The Board adopts the following amendments for public comment:

TITLE 35: ENVIRONMENTAL PROTECTION  
SUBTITLE F: PUBLIC WATER SUPPLIES  
CHAPTER I: POLLUTION CONTROL BOARD

PART 611  
PRIMARY DRINKING WATER STANDARDS

SUBPART A: GENERAL

Section	
611.100	Purpose, Scope, and Applicability
611.101	Definitions
611.102	Incorporations by Reference
611.103	Severability
611.107	Agency Inspection of PWS Facilities
611.108	Delegation to Local Government
611.109	Enforcement
611.110	Special Exception Permits
611.111	Relief Equivalent to SDWA Section 1415(a) Variances
611.112	Relief Equivalent to SDWA Section 1416 Exemptions
611.113	Alternative Treatment Techniques
611.114	Siting Requirements
611.115	Source Water Quantity
611.120	Effective Dates
611.121	Maximum Contaminant Levels and Finished Water Quality
611.125	Fluoridation Requirement
611.126	Prohibition on Use of Lead
611.130	Special Requirements for Certain Variances and Adjusted Standards
611.131	Relief Equivalent to SDWA Section 1415(e) Small System Variance
611.160	Composite Correction Program

## SUBPART B: FILTRATION AND DISINFECTION

Section	
611.201	Requiring a Demonstration
611.202	Procedures for Agency Determinations
611.211	Filtration Required
611.212	Groundwater under Direct Influence of Surface Water
611.213	No Method of HPC Analysis
611.220	General Requirements
611.230	Filtration Effective Dates
611.231	Source Water Quality Conditions
611.232	Site-Specific Conditions
611.233	Treatment Technique Violations
611.240	Disinfection
611.241	Unfiltered PWSs
611.242	Filtered PWSs
611.250	Filtration
611.261	Unfiltered PWSs: Reporting and Recordkeeping
611.262	Filtered PWSs: Reporting and Recordkeeping
611.271	Protection during Repair Work
611.272	Disinfection Following Repair
611.276	Recycle Provisions

## SUBPART C: USE OF NON-CENTRALIZED TREATMENT DEVICES

Section	
611.280	Point-of-Entry Devices
611.290	Use of Point-of-Use Devices or Bottled Water

## SUBPART D: TREATMENT TECHNIQUES

Section	
611.295	General Requirements
611.296	Acrylamide and Epichlorohydrin
611.297	Corrosion Control

## SUBPART F: MAXIMUM CONTAMINANT LEVELS (MCLs) AND MAXIMUM RESIDUAL DISINFECTANT LEVELS (MRDLs)

Section	
611.300	Old MCLs for Inorganic Chemical Contaminants
611.301	Revised MCLs for Inorganic Chemical Contaminants
611.310	Old Maximum Contaminant Levels (MCLs) for Organic Chemical Contaminants
611.311	Revised MCLs for Organic Chemical Contaminants
611.312	Maximum Contaminant Levels (MCLs) for Disinfection Byproducts (DBPs)
611.313	Maximum Residual Disinfectant Levels (MRDLs)
611.320	Turbidity (Repealed)
611.325	Microbiological Contaminants
611.330	Maximum Contaminant Levels for Radionuclides

611.331 Beta Particle and Photon Radioactivity (Repealed)

#### SUBPART G: LEAD AND COPPER

##### Section

611.350 General Requirements  
 611.351 Applicability of Corrosion Control  
 611.352 Corrosion Control Treatment  
 611.353 Source Water Treatment  
 611.354 Lead Service Line Replacement  
 611.355 Public Education and Supplemental Monitoring  
 611.356 Tap Water Monitoring for Lead and Copper  
 611.357 Monitoring for Water Quality Parameters  
 611.358 Monitoring for Lead and Copper in Source Water  
 611.359 Analytical Methods  
 611.360 Reporting  
 611.361 Recordkeeping

#### SUBPART I: DISINFECTANT RESIDUALS, DISINFECTION BYPRODUCTS, AND DISINFECTION BYPRODUCT PRECURSORS

##### Section

611.380 General Requirements  
 611.381 Analytical Requirements  
 611.382 Monitoring Requirements  
 611.383 Compliance Requirements  
 611.384 Reporting and Recordkeeping Requirements  
 611.385 Treatment Technique for Control of Disinfection Byproduct (DBP) Precursors

#### SUBPART K: GENERAL MONITORING AND ANALYTICAL REQUIREMENTS

##### Section

611.480 Alternative Analytical Techniques  
 611.490 Certified Laboratories  
 611.491 Laboratory Testing Equipment  
 611.500 Consecutive PWSs  
 611.510 Special Monitoring for Unregulated Contaminants (Repealed)

#### SUBPART L: MICROBIOLOGICAL MONITORING AND ANALYTICAL REQUIREMENTS

##### Section

611.521 Routine Coliform Monitoring  
 611.522 Repeat Coliform Monitoring  
 611.523 Invalidation of Total Coliform Samples  
 611.524 Sanitary Surveys  
 611.525 Fecal Coliform and E. Coli Testing  
 611.526 Analytical Methodology  
 611.527 Response to Violation

- 611.531 Analytical Requirements
- 611.532 Unfiltered PWSs
- 611.533 Filtered PWSs

#### SUBPART M: TURBIDITY MONITORING AND ANALYTICAL REQUIREMENTS

- Section
- 611.560 Turbidity

#### SUBPART N: INORGANIC MONITORING AND ANALYTICAL REQUIREMENTS

- Section
- 611.591 Violation of a State MCL
- 611.592 Frequency of State Monitoring
- 611.600 Applicability
- 611.601 Monitoring Frequency
- 611.602 Asbestos Monitoring Frequency
- 611.603 Inorganic Monitoring Frequency
- 611.604 Nitrate Monitoring
- 611.605 Nitrite Monitoring
- 611.606 Confirmation Samples
- 611.607 More Frequent Monitoring and Confirmation Sampling
- 611.608 Additional Optional Monitoring
- 611.609 Determining Compliance
- 611.610 Inorganic Monitoring Times
- 611.611 Inorganic Analysis
- 611.612 Monitoring Requirements for Old Inorganic MCLs
- 611.630 Special Monitoring for Sodium
- 611.631 Special Monitoring for Inorganic Chemicals (Repealed)

#### SUBPART O: ORGANIC MONITORING AND ANALYTICAL REQUIREMENTS

- Section
- 611.640 Definitions
- 611.641 Old MCLs
- 611.645 Analytical Methods for Organic Chemical Contaminants
- 611.646 Phase I, Phase II, and Phase V Volatile Organic Contaminants
- 611.647 Sampling for Phase I Volatile Organic Contaminants (Repealed)
- 611.648 Phase II, Phase IIB, and Phase V Synthetic Organic Contaminants
- 611.650 Monitoring for 36 Contaminants (Repealed)
- 611.657 Analytical Methods for 36 Contaminants (Repealed)
- 611.658 Special Monitoring for Organic Chemicals (Repealed)

#### SUBPART P: THM MONITORING AND ANALYTICAL REQUIREMENTS

- Section
- 611.680 Sampling, Analytical, and other Requirements
- 611.683 Reduced Monitoring Frequency (Repealed)

611.684	Averaging (Repealed)
611.685	Analytical Methods
611.686	Modification to System (Repealed)
611.687	Sampling for THM Potential (Repealed)
611.688	Applicability Dates (Repealed)

#### SUBPART Q: RADIOLOGICAL MONITORING AND ANALYTICAL REQUIREMENTS

Section	
611.720	Analytical Methods
611.731	Gross Alpha
611.732	Beta Particle and Photon Radioactivity
611.733	General Monitoring and Compliance Requirements

#### SUBPART R: ENHANCED FILTRATION AND DISINFECTION: SYSTEMS THAT SERVE 10,000 OR MORE PEOPLE

Section	
611.740	General Requirements
611.741	Standards for Avoiding Filtration
611.742	Disinfection Profiling and Benchmarking
611.743	Filtration
611.744	Filtration Sampling Requirements
611.745	Reporting and Recordkeeping Requirements

#### SUBPART T: REPORTING AND RECORDKEEPING

Section	
611.830	Applicability
611.831	Monthly Operating Report
611.832	Notice by Agency (Repealed)
611.833	Cross Connection Reporting
611.840	Reporting
611.851	Reporting MCL, MRDL, and other Violations (Repealed)
611.852	Reporting other Violations (Repealed)
611.853	Notice to New Billing Units (Repealed)
611.854	General Content of Public Notice (Repealed)
611.855	Mandatory Health Effects Language (Repealed)
611.856	Fluoride Notice (Repealed)
611.858	Fluoride Secondary Standard (Repealed)
611.860	Record Maintenance
611.870	List of 36 Contaminants (Repealed)

#### SUBPART U: CONSUMER CONFIDENCE REPORTS

Section	
611.881	Purpose and Applicability
611.882	Compliance Dates
611.883	Content of the Reports

- 611.884 Required Additional Health Information  
611.885 Report Delivery and Recordkeeping

#### SUBPART V: PUBLIC NOTIFICATION OF DRINKING WATER VIOLATIONS

- Section  
611.901 General Public Notification Requirements  
611.902 Tier 1 Public Notice: Form, Manner, and Frequency of Notice  
611.903 Tier 2 Public Notice: Form, Manner, and Frequency of Notice  
611.904 Tier 3 Public Notice: Form, Manner, and Frequency of Notice  
611.905 Content of the Public Notice  
611.906 Notice to New Billing Units or New Customers  
611.907 Special Notice of the Availability of Unregulated Contaminant Monitoring  
Results  
611.908 Special Notice for Exceedence of the Fluoride Secondary Standard  
611.909 Special Notice for Nitrate Exceedences above the MCL by a Non-Community  
Water System  
611.910 Notice by the Agency on Behalf of a PWS

#### SUBPART X: ENHANCED FILTRATION AND DISINFECTION--SYSTEMS SERVING FEWER THAN 10,000 PEOPLE

- Section  
611.950 General Requirements  
611.951 Finished Water Reservoirs  
611.952 Additional Watershed Control Requirements for Unfiltered Systems  
611.953 Disinfection Profile  
611.954 Disinfection Benchmark  
611.955 Combined Filter Effluent Turbidity Limits  
611.956 Individual Filter Turbidity Requirements  
611.957 Reporting and Recordkeeping Requirements
- 611.Appendix A Regulated Contaminants  
611.Appendix B Percent Inactivation of G. Lamblia Cysts  
611.Appendix C Common Names of Organic Chemicals  
611.Appendix D Defined Substrate Method for the Simultaneous Detection of Total Coliforms  
and Eschericia Coli from Drinking Water  
611.Appendix E Mandatory Lead Public Education Information for Community Water  
Systems  
611.Appendix F Mandatory Lead Public Education Information for Non-Transient Non-  
Community Water Systems  
611.Appendix G NPDWR Violations and Situations Requiring Public Notice  
611.Appendix H Standard Health Effects Language for Public Notification  
611.Appendix I Acronyms Used in Public Notification Regulation  
611.Table A Total Coliform Monitoring Frequency  
611.Table B Fecal or Total Coliform Density Measurements  
611.Table C Frequency of RDC Measurement

611.Table D	Number of Lead and Copper Monitoring Sites
611.Table E	Lead and Copper Monitoring Start Dates
611.Table F	Number of Water Quality Parameter Sampling Sites
611.Table G	Summary of Section 611.357 Monitoring Requirements for Water Quality Parameters
611.Table Z	Federal Effective Dates

**AUTHORITY:** Implementing Sections 7.2, 17, and 17.5 and authorized by Section 27 of the Environmental Protection Act [415 ILCS 5/7.2, 17, 17.5, and 27].

**SOURCE:** Adopted in R88-26 at 14 Ill. Reg. 16517, effective September 20, 1990; amended in R90-21 at 14 Ill. Reg. 20448, effective December 11, 1990; amended in R90-13 at 15 Ill. Reg. 1562, effective January 22, 1991; amended in R91-3 at 16 Ill. Reg. 19010, effective December 1, 1992; amended in R92-3 at 17 Ill. Reg. 7796, effective May 18, 1993; amended in R93-1 at 17 Ill. Reg. 12650, effective July 23, 1993; amended in R94-4 at 18 Ill. Reg. 12291, effective July 28, 1994; amended in R94-23 at 19 Ill. Reg. 8613, effective June 20, 1995; amended in R95-17 at 20 Ill. Reg. 14493, effective October 22, 1996; amended in R98-2 at 22 Ill. Reg. 5020, effective March 5, 1998; amended in R99-6 at 23 Ill. Reg. 2756, effective February 17, 1999; amended in R99-12 at 23 Ill. Reg. 10348, effective August 11, 1999; amended in R00-8 at 23 Ill. Reg. 14715, effective December 8, 1999; amended in R00-10 at 24 Ill. Reg. 14226, effective September 11, 2000; amended in R01-7 at 25 Ill. Reg. 1329, effective January 11, 2001; amended in R01-20 at 25 Ill. Reg. 13611, effective October 9, 2001; amended in R02-5 at 26 Ill. Reg. 3522, effective February 22, 2002; amended in R03-4 at 27 Ill. Reg. 1183, effective January 10, 2003; amended in R03-15 at 27 Ill. Reg. 16447, effective October 10, 2003; amended in R04-3 at 28 Ill. Reg. 5269, effective March 10, 2004; amended in R04-13 at 28 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_.

## SUBPART A: GENERAL

### Section 611.100 Purpose, Scope, and Applicability

- a) This Part satisfies the requirement of Section 17.5 of the Environmental Protection Act (Act) [415 ILCS 5/17.5] that the Board adopt regulations that are identical in substance with federal regulations promulgated by the United States Environmental Protection Agency (USEPA) pursuant to Sections 1412(b), 1414(c), 1417(a), and 1445(a) of the Safe Drinking Water Act (SDWA) (42 USC 300g-1(b), 300g-3(c), 300g-6(a), and 300j-4(a)).
- b) This Part establishes primary drinking water regulations (NPDWRs) pursuant to the SDWA, and also includes additional, related State requirements that are consistent with and more stringent than the USEPA regulations (Section 7.2(a)(6) of the Act [415 ILCS 5/7.2(a)(6)]). The latter provisions are specifically marked as “additional State requirements.” They apply only to community water systems (CWSs).
- c) This Part applies to “suppliers,” owners and operators of “public water systems”

(“PWSs”). PWSs include CWSs, “non-community water systems (“non-CWSs”), and “non-transient non-community water systems (“NTNCWSs”), as these terms are defined in Section 611.101.

- 1) CWS suppliers are required to obtain permits from the Illinois Environmental Protection Agency (Agency) pursuant to 35 Ill. Adm. Code 602.
- 2) Non-CWS suppliers are subject to additional regulations promulgated by the Illinois Department of Public Health (Public Health or DPH) pursuant to Section 9 of the Illinois Groundwater Protection Act [415 ILCS 55/9], including 77 Ill. Adm. Code 900.
- 3) Non-CWS suppliers are not required to obtain permits or other approvals from the Agency, or to file reports or other documents with the Agency. Any provision in this Part so providing is to be understood as requiring the non-CWS supplier to obtain the comparable form of approval from, or to file the comparable report or other document with Public Health.

BOARD NOTE: Derived from 40 CFR 141.1-(2002) (2003).

- d) This Part applies to each PWS, unless the PWS meets all of the following conditions:
- 1) ~~Consists~~-The PWS consists only of distribution and storage facilities (and does not have any collection and treatment facilities);
  - 2) ~~Obtains~~-The PWS obtains all of its water from, but is not owned or operated by, a supplier to which such regulations apply;
  - 3) ~~Does~~-The PWS does not sell water to any person; and
  - 4) ~~Is~~-The PWS is not a carrier that conveys passengers in interstate commerce.

BOARD NOTE: Derived from 40 CFR 141.3-(2002) (2003). The text of 40 CFR 141.3 is nearly identical to Section 1411 of the federal SDWA (42 USC 300g). On December 23, 2003 (at 68 Fed. Reg. 74233), USEPA announced a change in its policy relating to Section 1411. USEPA determined that a property owner that is not otherwise subject to the SDWA national primary drinking water standards “submeters” water, and does not “sell” water within the meaning of Section 1411(3) if the property owner meters water to tenants on its property and bills the tenants for the water. USEPA charged the State with determining whether water is “submetered” or “sold” in a particular situation. USEPA stated that eligibility for exclusion requires that the owner obtain water from a regulated water system. USEPA set forth factors for consideration to aid the State in making such a



determination: the property has a limited distribution system with no known backflow or cross-connection issues; the majority of the plumbing is within a structure, rather than in the ground; and property ownership is single or within an association of owners. USEPA cited apartment buildings, co-ops, and condominiums as examples of eligible properties. USEPA further stated that it does not intend the policy to apply to a large distribution system, to one that serves a large population, or one that serves a mixed commercial and residential population. USEPA cited “many military installations/facilities” and large mobile home parks as examples of systems to which the policy would not apply.

- e) Some subsection labels have been omitted in order to maintain local consistency between USEPA subsection labels and the subsection labels in this Part.

(Source: Amended at 28 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

#### Section 611.102 Incorporations by Reference

- a) Abbreviations and short-name listing of references. The following names and abbreviated names, presented in alphabetical order, are used in this Part to refer to materials incorporated by reference:

“Amco-AEPA-1 Polymer” is available from Advanced Polymer Systems.

“ASTM Method” means a method published by and available from the American Society for Testing and Materials (ASTM).

“Colisure Test” means “Colisure Presence/Absence Test for Detection and Identification of Coliform Bacteria and Escherichia Coli in Drinking Water,” available from Millipore Corporation, Technical Services Department.

“Dioxin and Furan Method 1613” means “Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope-Dilution HRGC/HRMS,” available from NTIS.

“GLI Method 2” means GLI Method 2, “Turbidity,” Nov. 2, 1992, available from Great Lakes Instruments, Inc.

“Hach FilterTrak Method 10133” means “Determination of Turbidity by Laser Nephelometry,” available from Hach Co.

“HASL Procedure Manual” means HASL Procedure Manual, HASL 300, available from ERDA Health and Safety Laboratory.

“Kelada 01” means “Kelada Automated Test Methods for Total Cyanide, Acid Dissociable Cyanide, And Thiocyanate,” Revision 1.2, August 2001,

EPA # 821-B-01-009, available from the National Technical Information Service (NTIS).

“Membrane Filter Technique using Chromocult Doliform Agar” means “Chromocult Coliform Agar Presence/Absence Membrane Filter Test Method for Detection and Identification of Coliform Bacteria and Escherichia coli in Finished Waters,” available from ~~EM Science~~ EMD Chemicals Inc.

“NCRP” means “National Council on Radiation Protection.”

“NTIS” means “National Technical Information Service.”

“New Jersey Radium Method” means “Determination of Radium 228 in Drinking Water,” available from the New Jersey Department of Environmental Protection.

“New York Radium Method” means “Determination of Ra-226 and Ra-228 (Ra-02),” available from the New York Department of Public Health.

“ONGP-MUG Test” (meaning “minimal medium ortho-nitrophenyl-beta-d-galactopyranoside-4-methyl-umbelliferyl-beta-d-glucuronide test”), also called the “Autoanalysis Colilert System,” is Method 9223, available in “Standard Methods for the Examination of Water and Wastewater,” 18th ed., from American Public Health Association.

“Palintest Method 1001” means “Method Number 1001,” available from Palintest, Ltd. or the Hach Company.

“QuikChem Method 10-204-00-1-X” means “Digestion and distillation of total cyanide in drinking and wastewaters using MICRO DIST and determination of cyanide by flow injection analysis,” available from Lachat Instruments.

“Readycult Coliforms 100 Presence/Absence Test” means “Readycult Coliforms 100 Presence/Absence Test for Detection and Identification of Coliform Bacteria and Escherichia coli in Finished Waters,” available from ~~EM Science~~ EMD Chemicals Inc.

“SimPlate Method” means “IDEXX SimPlate TM HPC Test Method for Heterotrophs in Water,” available from IDEXX Laboratories, Inc.

“Radiochemical Methods” means “Interim Radiochemical Methodology for Drinking Water,” available from NTIS.

“Standard Methods” means “Standard Methods for the Examination of

Water and Wastewater,” available from the American Public Health Association or the American Waterworks Association.

“Syngenta AG-625” means “Atrazine in Drinking Water by Immunoassay,” February 2001 is available from Syngenta Crop Protection, Inc.

“Technical Bulletin 601” means “Technical Bulletin 601, Standard Method of Testing for Nitrate in Drinking Water,” July 1994, available from Analytical Technology, Inc.

“Technicon Methods” means “Fluoride in Water and Wastewater,” available from Bran & Luebbe.

“USDOE Manual” means “EML Procedures Manual,” available from the United State Department of Energy.

“USEPA Asbestos Methods-100.1” means Method 100.1, “Analytical Method for Determination of Asbestos Fibers in Water,” September 1983, available from NTIS.

“USEPA Asbestos Methods-100.2” means Method 100.2, “Determination of Asbestos Structures over 10-mm in Length in Drinking Water,” June 1994, available from NTIS.

“USEPA Environmental Inorganics Methods” means “Methods for the Determination of Inorganic Substances in Environmental Samples,” August 1993, available from NTIS.

“USEPA Environmental Metals Methods” means “Methods for the Determination of Metals in Environmental Samples,” available from NTIS.

“USEPA Inorganic Methods” means “Methods for Chemical Analysis of Water and Wastes,” March 1983, available from NTIS.

“USEPA Interim Radiochemical Methods” means “Interim Radiochemical Methodology for Drinking Water,” EPA 600/4-75-008 (revised), March 1976. Available from NTIS.

“USEPA Organic Methods” means “Methods for the Determination of Organic Compounds in Drinking Water,” July 1991, for Methods 502.2, 505, 507, 508, 508A, 515.1, and 531.1; “Methods for the Determination of Organic Compounds in Drinking Water--Supplement I,” July 1990, for Methods 506, 547, 550, 550.1, and 551; and “Methods for the Determination of Organic Compounds in Drinking Water--Supplement

II,” August 1992, for Methods 515.2, 524.2, 548.1, 549.1, 552.1, and 555, available from NTIS. Methods 504.1, 508.1, and 525.2 are available from EPA EMSL; “Methods for the Determination of Organic Compounds” in Drinking Water--Supplement II, August 1992, for Method 552.1; “Methods for the Determination of Organic Compounds in Drinking Water--Supplement III,” August 1995, for Methods 502.2, 524.2, 551.1, and 552.2. Method 515.4, “Determination of Chlorinated Acids in Drinking Water by Liquid-Liquid Microextraction, Derivatization and Fast Gas Chromatography with Electron Capture Detection,” Revision 1.0, April 2000, EPA 815/B-00/001, and Method 531.2, “Measurement of N-methylcarbamoyloximes and N-methylcarbamates in Water by Direct Aqueous Injection HPLC with Postcolumn Derivatization,” Revision 1.0, September 2001, EPA 815/B/01/002, are both available on-line from USEPA, Office of Ground Water and Drinking Water.

“USEPA Radioactivity Methods” means “Prescribed Procedures for Measurement of Radioactivity in Drinking Water,” EPA 600/4-80-032, August 1980. Available from NTIS.

“USEPA Radiochemical Analyses” means “Radiochemical Analytical Procedures for Analysis of Environmental Samples,” March 1979. Available from NTIS.

“USEPA Radiochemistry Methods” means “Radiochemistry Procedures Manual,” EPA 520/5-84-006, December 1987. Available from NTIS.

“USEPA Technical Notes” means “Technical Notes on Drinking Water Methods,” available from NTIS.

“USGS Methods” means “Methods of Analysis by the U.S. Geological Survey National Water Quality Laboratory--Determination of Inorganic and Organic Constituents in Water and Fluvial Sediments,” available from NTIS and USGS.

“Waters Method B-1011” means “Waters Test Method for the Determination of Nitrite/Nitrate in Water Using Single Column Ion Chromatography,” available from Waters Corporation, Technical Services Division.

- b) The Board incorporates the following publications by reference:

Advanced Polymer Systems, 3696 Haven Avenue, Redwood City, CA 94063 415-366-2626.

Amco-AEPA-1 Polymer. See 40 CFR 141.22(a) (2003). Also, as referenced in ASTM D1889.

American Public Health Association, 1015 Fifteenth Street NW,  
Washington, DC 20005 800-645-5476.

“Standard Methods for the Examination of Water and Wastewater,” 17th Edition, 1989 (referred to as “Standard Methods, 17th ed.”).

“Standard Methods for the Examination of Water and Wastewater,” 18th Edition, 1992, including “Supplement to the 18th Edition of Standard Methods for the Examination of Water and Wastewater,” 1994 (collectively referred to as “Standard Methods, 18th ed.”). See the methods listed separately for the same references under American Waterworks Association.

“Standard Methods for the Examination of Water and Wastewater,” 19th Edition, 1995 (referred to as “Standard Methods, 19th ed.”).

“Standard Methods for the Examination of Water and Wastewater,” 20th Edition, 1998 (referred to as “Standard Methods, 20th ed.”).

American Waterworks Association et al., 6666 West Quincy Ave.,  
Denver, CO 80235 303-794-7711.

“National Field Evaluation of a Defined Substrate Method for the Simultaneous Enumeration of Total Coliforms and Escherichia coli for Drinking Water: Comparison with the Standard Multiple Tube Fermentation Method,” S.C. Edberg, M.J. Allen & D.B. Smith, Applied Environmental Microbiology, vol. 54, iss. 6, pp 1595-1601 (1988).

“Standard Methods for the Examination of Water and Wastewater,” 13th Edition, 1971 (referred to as “Standard Methods, 13th ed.”).

Method 302, Gross Alpha and Gross Beta Radioactivity in Water (Total, Suspended, and Dissolved).

Method 303, Total Radioactive Strontium and Strontium 90 in Water.

Method 304, Radium in Water by Precipitation.

Method 305, Radium 226 by Radon in Water (Soluble,

Suspended, and Total).

Method 306, Tritium in Water.

“Standard Methods for the Examination of Water and Wastewater,” 17th Edition, 1989 (referred to as “Standard Methods, 17th ed.”).

Method 7110 B, Gross Alpha and Gross Beta Radioactivity in Water (Total, Suspended, and Dissolved).

Method 7500-Cs B, Radioactive Cesium, Precipitation Method.

Method 7500-<sup>3</sup>H B, Tritium in Water.

Method 7500-I B, Radioactive Iodine, Precipitation Method.

Method 7500-I C, Radioactive Iodine, Ion-Exchange Method.

Method 7500-I D, Radioactive Iodine, Distillation Method.

Method 7500-Ra B, Radium in Water by Precipitation.

Method 7500-Ra C, Radium 226 by Radon in Water (Soluble, Suspended, and Total).

Method 7500-Ra D, Radium, Sequential Precipitation Method (Proposed).

Method 7500-Sr B, Total Radioactive Strontium and Strontium 90 in Water.

Method 7500-U B, Uranium, Radiochemical Method (Proposed).

Method 7500-U C, Uranium, Isotopic Method (Proposed).

“Standard Methods for the Examination of Water and Wastewater,” 18th Edition, 1992 (referred to as “Standard Methods, 18th ed.”).

Method 2130 B, Turbidity, Nephelometric Method.

Method 2320 B, Alkalinity, Titration Method.

Method 2510 B, Conductivity, Laboratory Method.

Method 2550, Temperature, Laboratory and Field Methods.

Method 3111 B, Metals by Flame Atomic Absorption Spectrometry, Direct Air-Acetylene Flame Method.

Method 3111 D, Metals by Flame Atomic Absorption Spectrometry, Direct Nitrous Oxide-Acetylene Flame Method.

Method 3112 B, Metals by Cold-Vapor Atomic Absorption Spectrometry, Cold-Vapor Atomic Absorption Spectrometric Method.

Method 3113 B, Metals by Electrothermal Atomic Absorption Spectrometry, Electrothermal Atomic Absorption Spectrometric Method.

Method 3114 B, Metals by Hydride Generation/Atomic Absorption Spectrometry, Manual Hydride Generation/Atomic Absorption Spectrometric Method.

Method 3120 B, Metals by Plasma Emission Spectroscopy, Inductively Coupled Plasma (ICP) Method.

Method 3500-Ca D, Calcium, EDTA Titrimetric Method.

Method 3500-Mg E, Magnesium, Calculation Method.

Method 4110 B, Determination of Anions by Ion Chromatography, Ion Chromatography with Chemical Suppression of Eluent Conductivity.

Method 4500-CN<sup>-</sup> C, Cyanide, Total Cyanide after Distillation.

Method 4500-CN<sup>-</sup> E, Cyanide, Colorimetric Method.

Method 4500-CN<sup>-</sup> F, Cyanide, Cyanide-Selective Electrode Method.

Method 4500-CN<sup>-</sup> G, Cyanide, Cyanides Amenable to Chlorination after Distillation.

Method 4500-Cl D, Chlorine, Amperometric Titration Method.

Method 4500-Cl E, Chlorine, Low-Level Amperometric Titration Method.

Method 4500-Cl F, Chlorine, DPD Ferrous Titrimetric Method.

Method 4500-Cl G, Chlorine, DPD Colorimetric Method.

Method 4500-Cl H, Chlorine, Syringaldazine (FACTS) Method.

Method 4500-Cl I, Chlorine, Iodometric Electrode Method.

Method 4500-ClO<sub>2</sub> C, Chlorine Dioxide, Amperometric Method I.

Method 4500-ClO<sub>2</sub> D, Chlorine Dioxide, DPD Method.

Method 4500-ClO<sub>2</sub> E, Chlorine Dioxide, Amperometric Method II (Proposed).

Method 4500-F<sup>-</sup> B, Fluoride, Preliminary Distillation Step.

Method 4500-F<sup>-</sup> C, Fluoride, Ion-Selective Electrode Method.

Method 4500-F<sup>-</sup> D, Fluoride, SPADNS Method.

Method 4500-F<sup>-</sup> E, Fluoride, Complexone Method.

Method 4500-H<sup>+</sup> B, pH Value, Electrometric Method.

Method 4500-NO<sub>2</sub><sup>-</sup> B, Nitrogen (Nitrite), Colorimetric Method.

Method 4500-NO<sub>3</sub><sup>-</sup> D, Nitrogen (Nitrate), Nitrate Electrode Method.

Method 4500-NO<sub>3</sub><sup>-</sup> E, Nitrogen (Nitrate), Cadmium Reduction Method.

Method 4500-NO<sub>3</sub><sup>-</sup> F, Nitrogen (Nitrate), Automated



Cadmium Reduction Method.

Method 4500-O<sub>3</sub> B, Ozone (Residual) (Proposed), Indigo Colorimetric Method.

Method 4500-P E, Phosphorus, Ascorbic Acid Method.

Method 4500-P F, Phosphorus, Automated Ascorbic Acid Reduction Method.

Method 4500-Si D, Silica, Molybdosilicate Method.

Method 4500-Si E, Silica, Heteropoly Blue Method.

Method 4500-Si F, Silica, Automated Method for Molybdate-Reactive Silica.

Method 6651, Glyphosate Herbicide (Proposed).

Method 7110 B, Gross Alpha and Beta Radioactivity (Total, Suspended, and Dissolved), Evaporation Method for Gross Alpha-Beta.

Method 7110 C, Gross Alpha and Beta Radioactivity (Total, Suspended, and Dissolved), Coprecipitation Method for Gross Alpha Radioactivity in Drinking Water (Proposed).

Method 7500-Cs B, Radioactive Cesium, Precipitation Method.

Method 7500-<sup>3</sup>H B, Tritium, Liquid Scintillation Spectrometric Method.

Method 7500-I B, Radioactive Iodine, Precipitation Method.

Method 7500-I C, Radioactive Iodine, Ion-Exchange Method.

Method 7500-I D, Radioactive Iodine, Distillation Method.

Method 7500-Ra B, Radium, Precipitation Method.

Method 7500-Ra C, Radium, Emanation Method.

Method 7500-Ra D, Radium, Sequential Precipitation Method (Proposed).

Method 7500-Sr B, Total Radioactive Strontium and Strontium 90, Precipitation Method.

Method 7500-U B, Uranium, Radiochemical Method (Proposed).

Method 7500-U C, Uranium, Isotopic Method (Proposed).

Method 9215 B, Heterotrophic Plate Count, Pour Plate Method.

Method 9221 A, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Introduction.

Method 9221 B, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Standard Total Coliform Fermentation Technique.

Method 9221 C, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Estimation of Bacterial Density.

Method 9221 D, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Presence-Absence (P-A) Coliform Test.

Method 9221 E, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Fecal Coliform Procedure.

Method 9222 A, Membrane Filter Technique for Members of the Coliform Group, Introduction.

Method 9222 B, Membrane Filter Technique for Members of the Coliform Group, Standard Total Coliform Membrane Filter Procedure.

Method 9222 C, Membrane Filter Technique for Members of the Coliform Group, Delayed-Incubation Total Coliform Procedure.

Method 9222 D, Membrane Filter Technique for Members of the Coliform Group, Fecal Coliform Membrane Filter

Procedure.

Method 9223, Chromogenic Substrate Coliform Test (Proposed).

“Supplement to the 18th Edition of Standard Methods for the Examination of Water and Wastewater,” American Public Health Association, 1994.

Method 6610, Carbamate Pesticide Method.

“Standard Methods for the Examination of Water and Wastewater,” 19th Edition, 1995 (referred to as “Standard Methods, 19th ed.”).

Method 2130 B, Turbidity, Nephelometric Method.

Method 2320 B, Alkalinity, Titration Method.

Method 2510 B, Conductivity, Laboratory Method.

Method 2550, Temperature, Laboratory, and Field Methods.

Method 3111 B, Metals by Flame Atomic Absorption Spectrometry, Direct Air-Acetylene Flame Method.

Method 3111 D, Metals by Flame Atomic Absorption Spectrometry, Direct Nitrous Oxide-Acetylene Flame Method.

Method 3112 B, Metals by Cold-Vapor Atomic Absorption Spectrometry, Cold-Vapor Atomic Absorption Spectrometric Method.

Method 3113 B, Metals by Electrothermal Atomic Absorption Spectrometry, Electrothermal Atomic Absorption Spectrometric Method.

Method 3114 B, Metals by Hydride Generation/Atomic Absorption Spectrometry, Manual Hydride Generation/Atomic Absorption Spectrometric Method.

Method 3120 B, Metals by Plasma Emission Spectroscopy, Inductively Coupled Plasma (ICP) Method.

Method 3500-Ca D, Calcium, EDTA Titrimetric Method.

Method 3500-Mg E, Magnesium, Calculation Method.

Method 4110 B, Determination of Anions by Ion Chromatography, Ion Chromatography with Chemical Suppression of Eluent Conductivity.

Method 4500-Cl D, Chlorine, Amperometric Titration Method.

Method 4500-Cl E, Chlorine, Low-Level Amperometric Titration Method.

Method 4500-Cl F, Chlorine, DPD Ferrous Titrimetric Method.

Method 4500-Cl G, Chlorine, DPD Colorimetric Method.

Method 4500-Cl H, Chlorine, Syringaldazine (FACTS) Method.

Method 4500-Cl I, Chlorine, Iodometric Electrode Method.

Method 4500-ClO<sub>2</sub> C, Chlorine Dioxide, Amperometric Method I.

Method 4500-ClO<sub>2</sub> D, Chlorine Dioxide, DPD Method.

Method 4500-ClO<sub>2</sub> E, Chlorine Dioxide, Amperometric Method II (Proposed).

Method 4500-CN<sup>-</sup> C, Cyanide, Total Cyanide after Distillation.

Method 4500-CN<sup>-</sup> E, Cyanide, Colorimetric Method.

Method 4500-CN<sup>-</sup> F, Cyanide, Cyanide-Selective Electrode Method.

Method 4500-CN<sup>-</sup> G, Cyanide, Cyanides Amenable to Chlorination after Distillation.

Method 4500-F<sup>-</sup> B, Fluoride, Preliminary Distillation Step.

Method 4500-F<sup>-</sup> C, Fluoride, Ion-Selective Electrode

Method.

Method 4500-F<sup>-</sup> D, Fluoride, SPADNS Method.

Method 4500-F<sup>-</sup> E, Fluoride, Complexone Method.

Method 4500-H<sup>+</sup> B, pH Value, Electrometric Method.

Method 4500-NO<sub>2</sub><sup>-</sup> B, Nitrogen (Nitrite), Colorimetric Method.

Method 4500-NO<sub>3</sub><sup>-</sup> D, Nitrogen (Nitrate), Nitrate Electrode Method.

Method 4500-NO<sub>3</sub><sup>-</sup> E, Nitrogen (Nitrate), Cadmium Reduction Method.

Method 4500-NO<sub>3</sub><sup>-</sup> F, Nitrogen (Nitrate), Automated Cadmium Reduction Method.

Method 4500-O<sub>3</sub> B, Ozone (Residual) (Proposed), Indigo Colorimetric Method.

Method 4500-P E, Phosphorus, Ascorbic Acid Method.

Method 4500-P F, Phosphorus, Automated Ascorbic Acid Reduction Method.

Method 4500-Si D, Silica, Molybdosilicate Method.

Method 4500-Si E, Silica, Heteropoly Blue Method.

Method 4500-Si F, Silica, Automated Method for Molybdate-Reactive Silica.

Method 5910 B, UV Absorbing Organic Constituents, Ultraviolet Absorption Method.

Method 6251 B, Disinfection Byproducts: Haloacetic Acids and Trichlorophenol, Micro Liquid-Liquid Extraction Gas Chromatographic Method.

Method 6651, Glyphosate Herbicide (Proposed).

Method 7110 B, Gross Alpha and Gross Beta Radioactivity, Evaporation Method for Gross Alpha-Beta.

Method 7110 C, Gross Alpha and Beta Radioactivity (Total, Suspended, and Dissolved), Coprecipitation Method for Gross Alpha Radioactivity in Drinking Water (Proposed).

Method 7120 B, Gamma-Emitting Radionuclides, Gamma Spectrometric Method.

Method 7500-Cs B, Radioactive Cesium, Precipitation Method.

Method 7500-3H B, Tritium, Liquid Scintillation Spectrometric Method.

Method 7500-I B, Radioactive Iodine, Precipitation Method.

Method 7500-I C, Radioactive Iodine, Ion-Exchange Method.

Method 7500-I D, Radioactive Iodine, Distillation Method.

Method 7500-Ra B, Radium, Precipitation Method.

Method 7500-Ra C, Radium, Emanation Method.

Method 7500-Ra D, Radium, Sequential Precipitation Method.

Method 7500-Sr B, Total Radiactive Strontium and Strontium 90, Precipitation Method.

Method 7500-U B, Uranium, Radiochemical Method.

Method 7500-U C, Uranium, Isotopic Method.

Method 9215 B, Heterotrophic Plate Count, Pour Plate Method.

Method 9221 A, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Introduction.

Method 9221 B, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Standard Total Coliform Fermentation Technique.

Method 9221 C, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Estimation of Bacterial Density.

Method 9221 D, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Presence-Absence (P-A) Coliform Test.

Method 9221 E, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Fecal Coliform Procedure.

Method 9222 A, Membrane Filter Technique for Members of the Coliform Group, Introduction.

Method 9222 B, Membrane Filter Technique for Members of the Coliform Group, Standard Total Coliform Membrane Filter Procedure.

Method 9222 C, Membrane Filter Technique for Members of the Coliform Group, Delayed-Incubation Total Coliform Procedure.

Method 9222 D, Membrane Filter Technique for Members of the Coliform Group, Fecal Coliform Membrane Filter Procedure.

Method 9223, Chromogenic Substrate Coliform Test (Proposed).

“Supplement to the 19th Edition of Standard Methods for the Examination of Water and Wastewater,” American Public Health Association, 1996.

Method 5310 B, TOC, Combustion-Infrared Method.

Method 5310 C, TOC, Persulfate-Ultraviolet Oxidation Method.

Method 5310 D, TOC, Wet-Oxidation Method.

“Standard Methods for the Examination of Water and Wastewater,” 20th Edition, 1998 (referred to as “Standard Methods, 20th ed.”).

Method 2130 B, Turbidity, Nephelometric Method.

Method 2320 B, Alkalinity, Titration Method.

Method 2510 B, Conductivity, Laboratory Method.

Method 2550, Temperature, Laboratory, and Field Methods.

Method 3120 B, Metals by Plasma Emission Spectroscopy, Inductively Coupled Plasma (ICP) Method.

Method 3500-Ca B, Calcium, EDTA Titrimetric Method.

Method 3500-Mg B, Magnesium, EDTA Titrimetric Method.

Method 4110 B, Determination of Anions by Ion Chromatography, Ion Chromatography with Chemical Suppression of Eluent Conductivity.

Method 4500-CN<sup>-</sup> C, Cyanide, Total Cyanide after Distillation.

Method 4500-CN<sup>-</sup> E, Cyanide, Colorimetric Method.

Method 4500-CN<sup>-</sup> F, Cyanide, Cyanide-Selective Electrode Method.

Method 4500-CN<sup>-</sup> G, Cyanide, Cyanides Amenable to Chlorination after Distillation.

Method 4500-Cl D, Chlorine, Amperometric Titration Method.

Method 4500-Cl E, Chlorine, Low-Level Amperometric Titration Method.

Method 4500-Cl F, Chlorine, DPD Ferrous Titrimetric Method.

Method 4500-Cl G, Chlorine, DPD Colorimetric Method.

Method 4500-Cl H, Chlorine, Syringaldazine (FACTS) Method.



Method 4500-Cl I, Chlorine, Iodometric Electrode Method.

Method 4500-ClO<sub>2</sub> C, Chlorine Dioxide, Amperometric Method I.

Method 4500-ClO<sub>2</sub> D, Chlorine Dioxide, DPD Method.

Method 4500-ClO<sub>2</sub> E, Chlorine Dioxide, Amperometric Method II (Proposed).

Method 4500-F<sup>-</sup> B, Fluoride, Preliminary Distillation Step.

Method 4500-F<sup>-</sup> C, Fluoride, Ion-Selective Electrode Method.

Method 4500-F<sup>-</sup> D, Fluoride, SPADNS Method.

Method 4500-F<sup>-</sup> E, Fluoride, Complexone Method.

Method 4500-H<sup>+</sup> B, pH Value, Electrometric Method.

Method 4500-NO<sub>2</sub><sup>-</sup> B, Nitrogen (Nitrite), Colorimetric Method.

Method 4500-NO<sub>3</sub><sup>-</sup> D, Nitrogen (Nitrate), Nitrate Electrode Method.

Method 4500-NO<sub>3</sub><sup>-</sup> E, Nitrogen (Nitrate), Cadmium Reduction Method.

Method 4500-NO<sub>3</sub><sup>-</sup> F, Nitrogen (Nitrate), Automated Cadmium Reduction Method.

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Method 4500-Si C, Silica, Molybdosilicate Method.

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Method 4500-Si E, Silica, Automated Method for

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Method 4500-Cl E, Chlorine (Residual), Low-Level Amperometric Titration Method.

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Method 4500-Cl G, Chlorine (Residual), DPD Colorimetric Method.

Method 4500-Cl H, Chlorine (Residual), Syringaldazine (FACTS) Method.

Method 4500-Cl I, Chlorine (Residual), Iodometric Electrode Technique.

Method 4500-ClO<sub>2</sub> D, Chlorine Dioxide, DPD Method.

Method 4500-ClO<sub>2</sub> E, Chlorine Dioxide, Amperometric Method II.

Method 6651, Glyphosate Herbicide (Proposed).

Method 7110-B, Gross Alpha and Gross Beta Radioactivity, Evaporation Method for Gross Alpha-Beta.

Method 7110 C, Gross Alpha and Beta Radioactivity (Total, Suspended, and Dissolved), Coprecipitation Method for Gross Alpha Radioactivity in Drinking Water (Proposed).

Method 7120-B, Gamma-Emitting Radionuclides, Gamma Spectrometric Method.

Method 7500-Cs B, Radioactive Cesium, Precipitation Method.

Method 7500-3H B, Tritium, Liquid Scintillation Spectrometric Method.

Method 7500-I B, Radioactive Iodine, Precipitation Method.

Method 7500-I C, Radioactive Iodine, Ion-Exchange Method.

Method 7500-I D, Radioactive Iodine, Distillation Method.

Method 7500-Ra B, Radium, Precipitation Method.

Method 7500-Ra C, Radium, Emanation Method.

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Method 7500-U B, Uranium, Radiochemical Method.

Method 7500-U C, Uranium, Isotopic Method.

Method 9215 B, Heterotrophic Plate Count, Pour Plate Method.

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Method 9221 C, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Estimation of Bacterial Density.

Method 9221 D, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Presence-Absence (P-A) Coliform Test.

Method 9221 E, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Fecal Coliform Procedure.

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Method 9222 C, Membrane Filter Technique for Members of the Coliform Group, Delayed-Incubation Total Coliform Procedure.

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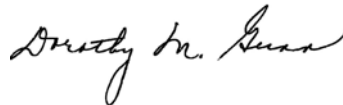
c) The Board incorporates the following federal regulations by reference:

40 CFR 136, Appendices B and C (2003).

d) This Part incorporates no later amendments or editions.

(Source: Amended at 28 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

I, Dorothy M. Gunn, Clerk of the Illinois Pollution Control Board, certify that the Board adopted the above opinion and order on August 19, 2004, by a vote of 4-0.



Dorothy M. Gunn, Clerk  
Illinois Pollution Control Board