# ILLINOIS POLLUTION CONTROL BOARD December 20, 1990

IN THE MATTER OF:	)	
	)	
SAFE DRINKING WATER ACT	)	R90-13
UPDATE (1/1/90 ~ 6/30/90)	)	(Rulemaking)
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FINAL ORDER. ADOPTED RULES.

OPINION AND ORDER OF THE BOARD (by J. Anderson):

Pursuant to Section 17.5 of the Environmental Protection Act (Act), the Board is updating its regulations which are identical in substance to USEPA regulations implementing the Safe Drinking Water Act (SDWA). The Board rules are contained in 35 Ill. Adm. Code 611.

Section 17.5 of the Act provides for quick adoption of regulations which are "identical in substance" to federal regulations; Section 17.5 provides that Title VII of the Act and Section 5 of the Illinois Administrative Procedure Act (APA) shall not apply. Because this rulemaking is not subject to Section 5 of the APA, it is not subject to first notice or to second notice review by the Joint Committee on Administrative Rules (JCAR).

The SDWA program was drawn from 40 CFR 141 and 143 (1989). Only one amendment occurred during this update batch:

55 Fed. Req. 25064 June 19, 1990

The amendments are corrections to federal regulations published June 29, 1989, and incorporated into the Board rules in R88-26. Most of the corrections were made by the Board on original adoption.

#### PUELIC COMMENT

The Board adopted a proposed Opinion and Order on September 27, 1990. The proposal appeared on October 19, 1990, at 14 Ill. Reg. 17154. The Board has received the following comments:

- PC 1 Department of Commerce and Community Affairs (DCCA), Small Business Assistance Bureau, November 15, 1990.
- PC 2 Administrative Code Division, November 19, 1990

PC 1 is DCCA's small business impact analysis, finding no impact. PC 2 is the Code Division's codification review, indicating no problems.

We construe the lack of comment from the Illinois Environmental Protection Agency (Agency), or Region 5 of the USEPA as denoting no problems with the proposal.

### HISTORY OF SDWA PROGRAM

The SDWA rules were recently adopted in Docket R88-26. The Board entered a Proposed Opinion and Order on October 5, 1989. The proposal appeared on December 1, 1989, at 13 Ill. Reg. 18690. Following the public comment period, the Board adopted a "Final" Opinion and Order on May 24, 1990. The Board then allowed a post-adoption comment period. On August 9, 1990, the Board withdrew the May 24 Opinion and Order, and substituted a new Opinion and Order.

On November 29, 1990, in R90-21, the Board adopted corrections to R88-26. This correction, regarding primarily the "MMO-MUG" inclusion of the test for coliform analysis was separately handled so as to assure that it was expeditiously adopted. The corrections in this Docket arise from USEPA corrections published in the Federal Register.

The actions on the SDWA rules are summarized as follows:

R88-26	August 9,	1990; 14	Ill. Reg.	16517,	effective	September
	20, 1990.	Original	adoption	(through	June 30,	1989).

R90-4 Dismissed June 21, 1990 (no USEPA amendments July 1 through December 31, 1989)

R90-13 This Docket (January 1, 1990 thorugh June 30, 1990)

R90-21 Adopted November 29, 1990; (Corrections to R88-26)

#### GENERAL DISCUSSION

The amendments derive from a single USEPA action correcting the June 29, 1989, filtration and disinfection rules. (55 Fed. Reg. 25064, June 19, 1990). Most of these are typographical errors which the Board discovered and corrected in adopting R88-26. Only two corrections result in any change to the Board rules.

## SECTION-BY-SECTION DISCUSSION

Section 611.325

This Section is derived from 40 CFR 141.63. Subsection (d)(5) was amended in item 17 at 55 Fed. Reg. 25064.

This amendment concerns the "wellhead protection program" which is defined in Section 611.101, and which was discussed at page 41 in the August 9, 1990, Opinion in R88-26. Illinois is in the process of developing a wellhead protection program which will be submitted to USEPA for approval under Section 1428 of the SDWA. This will include the "groundwater protection needs assessment" under Section 17.1 of the Act, and regulations to be adopted in 35 Ill. Adm. Code 615 through 620.

40 CFR 141.63(d) lists BATs for achieving compliance with the microbiological revised MCLs. As originally adopted, subsection (d)(5) listed "development ... of an approved wellhead protection program" as a BAT by which

a PWS could comply with the microbiological MCLs. However, it is the State which "develops" the wellhead protection program, not the PWS. This amendment changes this to "compliance with an approved wellhead protection program", and limits the applicability to PWSs using groundwater.

The USEPA amendment specifies the details of the approval process. However, in R88-26 the Board discovered these, and placed them in the definition in Section 611.101. There is no need to repeat them in this Section.

Section 611.521

This Section is derived from 40 CFR 141.21(a). Section 141.21(a)(4) was amended in item 4 at 55 Fed. Reg. 25064. This is subsection (d) in the Board rule. The existing rule sets a special sampling provision for small supplies using groundwater. The amendment limits this to supplies using "only" groundwater.

#### ORDER

The Board hereby amends 35 Ill. Adm. Code 611 to read as follows:

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		
611.108	Delegation to Local Government		
611.109	Enforcement		
611.110	Special Exception Permits		
611.111	Section 1415 Variances		
611.112	Section 1416 Variances		
611.113	Alternative Treatment Techniques		
611.114	Siting requirements		
611.115	Source Water Quality		
611.120	Effective dates		
611.121	Maximum Contaminant Levels		
611.125	Fluoridation Requirement		
611.126	Prohibition on Use of Lead		
	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
a dan	SUBPART C: USE OF NON-CENTRALIZED TREATMENT DEVICES
Section	polick of policy position
611.280	Point-of-Entry Devices
611.290	Use of other Non-centralized Treatment Devices
	SUBPART F: MAXIMUM CONTAMINANT LEVELS (MCL's)
Section	
611.300	Inorganic Chemicals
611.310	Organic Chemicals
611.311	VOCs
611.320	Turbidity
611.325	Microbiological Contaminants
611.330	Radium and Gross Alpha Particle Activity
611.331	Beta Particle and Photon Radioactivity
	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
SUF	EPART L: MICROBIOLOGICAL MONITORING AND ANALYTICAL REQUIREMENTS
Section	
611.521	Routine Coliform Monitoring
611.522	
611.523	
611.524	
611.525	Fecal Coliform and E. Coli Testing
611.526	Analytical Methodology
611.527	Response to Violation
611.531	
611.532	
611.533	Filtered PWSs
	SUBPART M: TURBIDITY MONITORING AND ANALYTICAL REQUIREMENTS

SUBPART M: TURBIDITY MONITORING AND ANALYTICAL REQUIREMENTS

Section

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611.560
              Turbidity
         SUBPART N: INORGANIC MONITORING AND ANALYTICAL REQUIREMENTS
Section
611.601
              Requirements
611.602
              Violation of State MCL
611.603
              Frequency of State Monitoring
              Analytical Methods
611.606
611.607
              Fluoride Monitoring
611.610
              Special Monitoring for Sodium
          SUBPART O: ORGANIC MONITORING AND ANALYTICAL REQUIREMENTS
Section
611.641
              Sampling and Analytical Requirements
611.645
              Analytical Methods
611.648
              Sampling for VOCs
              Monitoring for 36 Contaminants
611.650
611.657
              Analytical Methods for 36 Contaminants
            SUBPART P: THM MONITORING AND ANALYTICAL REQUIREMENTS
Section
611.680
              Sampling, Analytical and other Requirements
611.683
              Reduced Monitoring Frequency
611.684
              Averaging
611.685
              Analytical Methods
611.686
              Modification to System
       SUBPART Q: RADIOLOGICAL MONITORING AND ANALYTICAL REQUIREMENTS
Section
611.720
              Analytical Methods
611.731
              Gross Alpha
              Manmade Radioactivity
611.732
         SUBPART T: REPORTING, PUBLIC NOTIFICATION AND RECORDKEEPING
Section
611.830
              Applicability
611.831
              Monthly Operating Report
611.832
              Notice by Agency
611.833
              Cross Connection Reporting
611.840
              Reporting
611.851
              Reporting MCL and other Violations
611.852
              Reporting other Violations
              Notice to New Billing Units
611.853
611.854
              General Content of Public Notice
611.855
              Mandatory Health Effects Language
611.856
              Fluoride Notice
              Fluoride Secondary Standard
611.858
              Record Maintenance
611.860
611.870
              List of 36 Contaminants
Appendix A
              Mandatory Health Effects Information
              Percent Inactivation of G. Lamblia Cysts
Appendix B
Appendic C
              Common Names of Organic Chemicals
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- Table A Total Coliform Monitoring Frequency
- Table B Fecal or Total Coliform Density Measurements
- Table C Frequency of RDC Measurement

AUTHORITY: Implementing Sections 17 and 17.5 and authorized by Section 27 of the Environmental Protection Act (Ill. Rev. Stat. 1989, ch. 111 1/2, pars. 1017, 1017.5 and 1027.

SOURCE: Adopted in R88-26 at 14 Ill. Reg. 16517, effective September 20, 1990; amended in R90-21 at 14 Ill. Reg. , effective amended in R90-13 at 15 Ill. Reg. , effective

## SUBPART F: MAXIMUM CONTAMINANT LEVELS (MCL'S)

## Section 611.325 Microbiological Contaminants

- a) The MCL is based on the presence or absence of total coliforms in a sample, rather than coliform density.
  - 1) For a supplier which collects at least 40 samples per month, if no more than 5.0 percent of the samples collected during a month are total coliform-positive, the supplier is in compliance with the MCL for total coliforms.
  - 2) For a supplier which collects fewer than 40 samples per month, if no more than one sample collected during a month is total coliform-positive, the supplier is in compliance with the MCL for total coliforms.
- Any fecal coliform-positive repeat sample or E. coli-positive repeat sample, or any total coliform-positive repeat sample following a fecal coliform-positive or E. coli-positive routine sample, constitutes a violation of the MCL for total coliforms. For purposes of the public notification requirements in Section 611.851 et seq., this is a violation that may pose an acute risk to health.
- c) A supplier shall determine compliance with the MCL for total coliforms in subsections (a) and (b) for each month in which it is required to monitor for total coliforms.
- d) BATs for achieving compliance with the MCL for total coliforms in subsections (a) and (b):
  - 1) Protection of wells from contamination by coliforms by appropriate placement and construction;
  - 2) Maintenance of RDC throughout the distribution system;
  - 3) Proper maintenance of the distribution system including appropriate pipe replacement and repair procedures, main flushing programs, proper operation and maintenance of storage tanks and reservoirs and continual maintenance of positive water pressure in all parts of the distribution system;

- 4) Filtration and disinfection of surface water, as described in Subpart B, or disinfection of groundwater using strong oxidants such as chlorine, chlorine dioxide or ozone; or
- 5) -The development and implementation of an approved-For systems using groundwater, compliance with the wellhead protection program, after USEPA approves the program.

BOARD NOTE: Derived from 40 CFR 141.63 (1989), as amended at 54 Fed. Reg. 27562, June 29, 1989.

(Source: Amended at 15 Ill. Reg. , effective )

# SUBPART L: MICROBIOLOGICAL MONITORING AND ANALYTICAL REQUIREMENTS

Section 611.521 Routine Coliform Monitoring

- a) Suppliers shall collect total coliform samples at sites which are representative of water throughout the distribution system according to a written sample siting plan, which must be approved by by special exception permit.
- b) The monitoring frequency for total coliforms for CWSs is based on the population served by the CWS, as set forth in Table A. If a CWS serving 25 to 1,000 persons has no history of total coliform contamination in its current configuration and a sanitary survey conducted in the past five years shows that the CWS is supplied solely by a protected groundwater source and is free of sanitary defects, the Agency shall reduce the monitoring frequency specified in Table A, except that in no case shall the Agency reduce the monitoring frequency to less than one sample per quarter. The Agency shall approve the reduced monitoring frequency by special exception permit.
- c) The monitoring frequency for total coliforms for non-CWSs is as follows:
  - 1) A non-CWS using only groundwater (except groundwater under the direct influence of surface water, as determined in Section 611.212) and serving 1,000 persons or fewer shall monitor each calendar quarter that the system provides water to the public, except that Public Health shall reduce this monitoring frequency if a sanitary survey shows that the system is free of sanitary defects. Beginning June 29, 1994, Public Health cannot reduce the monitoring frequency for a non-CWS using only groundwater (except groundwater under the direct influence of surface water) and serving 1,000 persons or fewer to less than once per year.
  - 2) A non-CWS using only groundwater (except groundwater under the direct influence of surface water) and serving more than 1,000 persons during any month shall monitor at the same frequency as a like-sized CWS, as specified in subsection (b), except Public Health shall reduce this monitoring frequency for any month the

system serves 1,000 persons or fewer. Public Health cannot reduce the monitoring to less than once per year. For systems using groundwater under the direct influence of surface water, subsection (c)(4) applies.

- 3) A non-CWS using surface water, in total or in part, shall monitor at the same frequency as a like-sized CWS, as specified in subsection (b), regardless of the number of persons it serves.
- 4) A non-CWS using groundwater under the direct influence of surface water, shall monitor at the same frequency as a like-sized CWS, as specified in subsection (b). The supplier shall begin monitoring at this frequency beginning six months after Public Health determines that the groundwater is under the direct influence of surface water.
- d) The supplier shall collect samples at regular time intervals throughout the month, except that a supplier which uses only groundwater (except groundwater under the direct influence of surface water) and serves 4,900 persons or fewer, may collect all required samples on a single day if they are taken from different sites.
- e) A PWS that uses surface water or groundwater under the direct influence of surface water, and does not practice filtration in compliance with Subpart B, shall collect at least one sample near the first service connection each day the turbidity level of the source water, measured as specified in Section 611.532(b), exceeds 1 NTU. This sample must be analyzed for the presence of total coliforms. When one or more turbidity measurements in any day exceed 1 NTU, the supplier shall collect this coliform sample within 24 hours of the first exceedance, unless the Agency has determined, by special exception permit, that the supplier, for logistical reasons outside the supplier's control, cannot have the sample analyzed within 30 hours of collection. Sample results from this coliform monitoring must be included in determining compliance with the MCL for total coliforms in Section 611.325.
- f) Special purpose samples, such as those taken to determine whether disinfection practices are sufficient following pipe placement, replacement or repair, must not be used to determine compliance with the MCL for total coliforms in Section 611.325.

BOARD NOTE: Derived from 40 CFR 141.21(a) (1989), as amended at 54 Fed. Reg. 27562, June 29, 1989.

(Source: Amended at 15 Ill. Reg. , effective )

IT IS SO ORDERED.

I, Dorothy M. Gunn, Clerk of the Illinois Pollution Control Board, hereby certify that the above Opinion and Order was adopted on the 20th day of Asserted, 1990, by a vote of 7-0.

Dorothy M. Gann, Clerk

Illinois Pollution Control Board