

2010

ILLINOIS

REGISTER

RULES
OF GOVERNMENTAL
AGENCIES



Volume 34, Issue 52
December 27, 2010
Pages 19788-20156

Index Department
Administrative Code Division
111 East Monroe Street
Springfield, IL 62756
(217) 782-7017
<http://www.cyberdriveillinois.com>

Printed on recycled paper

PUBLISHED BY JESSE WHITE • SECRETARY OF STATE

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INTRODUCTION

The Illinois Register is the official State document for publishing public notice of rulemaking activity initiated by State governmental agencies. The table of contents is arranged categorically by rulemaking activity and alphabetically by agency within each category. Rulemaking activity consists of proposed or adopted new rules; amendments to or repealers of existing rules; and rules promulgated by emergency or preemptory action. Executive Orders and Proclamations issued by the Governor; notices of public information required by State Statute; and activities (meeting agendas; Statements of Objection or Recommendation, etc.) of the Joint Committee on Administrative Rules (JCAR), a legislative oversight committee which monitors the rulemaking activities of State Agencies; is also published in the Register. The Register is a weekly update of the Illinois Administrative Code (a compilation of the rules adopted by State agencies). The most recent edition of the Code, along with the Register, comprise the most current accounting of State agencies' rulemakings. The Illinois Register is the property of the State of Illinois, granted by the authority of the Illinois Administrative Procedure Act [5 ILCS 100/1-1, et seq.].

ILLINOIS REGISTER PUBLICATION SCHEDULE FOR 2010

<u>Issue #</u>	<u>Rules Due Date</u>	<u>Date of Issue</u>
1	December 21, 2009	January 4, 2010
2	December 28, 2009	January 8, 2010
3	January 4, 2010	January 15, 2010
4	January 11, 2010	January 22, 2010
5	January 19, 2010	January 29, 2010
6	January 25, 2010	February 5, 2010
7	February 1, 2010	February 16, 2010
8	February 8, 2010	February 19, 2010
9	February 16, 2010	February 26, 2010
10	February 22, 2010	March 5, 2010
11	March 1, 2010	March 12, 2010
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13	March 15, 2010	March 26, 2010
14	March 22, 2010	April 2, 2010
15	March 29, 2010	April 9, 2010
16	April 5, 2010	April 16, 2010
17	April 12, 2010	April 23, 2010
18	April 19, 2010	April 30, 2010
19	April 26, 2010	May 7, 2010
20	May 3, 2010	May 14, 2010
21	May 10, 2010	May 21, 2010
22	May 17, 2010	May 28, 2010
23	May 24, 2010	June 4, 2010
24	June 1, 2010	June 11, 2010

<u>Issue #</u>	<u>Rules Due Date</u>	<u>Date of Issue</u>
25	June 7, 2010	June 18, 2010
26	June 14, 2010	June 25, 2010
27	June 21, 2010	July 2, 2010
28	June 28, 2010	July 9, 2010
29	July 6, 2010	July 16, 2010
30	July 12, 2010	July 23, 2010
31	July 19, 2010	July 30, 2010
32	July 26, 2010	August 6, 2010
33	August 2, 2010	August 13, 2010
34	August 9, 2010	August 20, 2010
35	August 16, 2010	August 27, 2010
36	August 23, 2010	September 3, 2010
37	August 30, 2010	September 10, 2010
38	September 7, 2010	September 17, 2010
39	September 13, 2010	September 24, 2010
40	September 20, 2010	October 1, 2010
41	September 27, 2010	October 8, 2010
42	October 4, 2010	October 15, 2010
43	October 12, 2010	October 22, 2010
44	October 18, 2010	October 29, 2010
45	October 25, 2010	November 5, 2010
46	November 1, 2010	November 12, 2010
47	November 8, 2010	November 19, 2010
48	November 15, 2010	November 29, 2010
49	November 22, 2010	December 3, 2010
50	November 29, 2010	December 10, 2010
51	December 6, 2010	December 17, 2010
52	December 13, 2010	December 27, 2010

Editor's Note: The Secretary of State Index Department is providing this opportunity to remind you that the next filing period for your Regulatory Agenda will occur from October 15, 2010 to January 3, 2011.

DEPARTMENT OF CHILDREN AND FAMILY SERVICES

NOTICE OF PROPOSED AMENDMENTS

- 1) Heading of the Part: Permanency Planning
- 2) Code Citation: 89 Ill. Adm. Code 315
- 3)

<u>Section Numbers:</u>	<u>Proposed Action:</u>
315.200	Amended
315.241	New
315.305	Amended
- 4) Statutory Authority: Children and Family Services Act [20 ILCS 505/5]
- 5) A Complete Description of the Subjects and Issues Involved: The Department is amending Sections 315.200, Selection of the Permanency Goal; 315.305, When Reunification is Inappropriate; and adding Section 315.241, Continuing Foster Care. The proposed amendments are being made to include the additional permanency goal of "Continuing Foster Care" as recently added into law by Public Act 96-600, effective August 21, 2009.
- 6) Published studies or reports, and sources of underlying data used to compose this rulemaking: None
- 7) Will this rulemaking replace any emergency rulemaking currently in effect? No
- 8) Does this rulemaking contain an automatic repeal date? No
- 9) Does this rulemaking contain incorporations by reference? No
- 10) Are there any proposed rulemakings to this Part pending? No
- 11) Statement of Statewide Policy Objectives: This rulemaking does not create or expand a State mandate as defined in Section 3(b) of the State Mandates Act [30 ILCS 805/3(b)].
- 12) Time, Place, and Manner in which interested persons may comment on this proposed rulemaking: Comments on this proposed rulemaking may be submitted in writing for a period of 45 days following publication of this Notice. Comments should be submitted to:

Jeff E. Osowski
Department of Children and Family Services

DEPARTMENT OF CHILDREN AND FAMILY SERVICES

NOTICE OF PROPOSED AMENDMENTS

406 East Monroe, Station # 65
Springfield, Illinois 62701-1498

Telephone: 217/524-1983
TTY: 217/524-3715
E-mail: cfpolicy@idcfs.state.il.us

The Department will consider fully all written comments on this proposed rulemaking submitted during the 45-day comment period. Comments submitted by small businesses should be identified as such.

- 13) Initial Regulatory Flexibility Analysis:
- A) Types of businesses affected: The Department has determined that the proposed amendment will not have an economic impact on small businesses.
 - B) Reporting, bookkeeping or other procedures required for compliance: None
 - C) Types of professional skills necessary for compliance: None
- 14) Regulatory Agenda on which this rulemaking was summarized: This rulemaking was not included on either of the 2 most recent agendas because the revisions were not anticipated at the time the regulatory agenda was completed.

The full text of the Proposed Amendments begins on the next page:

DEPARTMENT OF CHILDREN AND FAMILY SERVICES

NOTICE OF PROPOSED AMENDMENTS

TITLE 89: SOCIAL SERVICES

CHAPTER III: DEPARTMENT OF CHILDREN AND FAMILY SERVICES

SUBCHAPTER a: SERVICE DELIVERY

PART 315

PERMANENCY PLANNING

SUBPART A: PRINCIPLES OF PERMANENCY PLANNING

Section

- 315.10 Purpose
- 315.20 Definitions
- 315.30 Best Interests Health and Safety of the Child
- 315.40 Accountability
- 315.45 The Need for a Permanent Home
- 315.50 Reasonable Efforts/Reasonable Progress
- 315.60 The Child's Sense of Time
- 315.70 The Critical Decisions
- 315.80 Components of the Permanency Planning Process

SUBPART B: ASSESSMENT AND OTHER CASEWORK ACTIVITIES

Section

- 315.100 Assessment
- 315.110 Worker Interventions and Contacts
- 315.120 Family Meetings
- 315.130 Developing the Service Plan
- 315.140 Distributing the Service Plan
- 315.150 Revising the Service Plan
- 315.160 Case Reviews and Court Hearings

SUBPART C: SELECTING THE PERMANENCY GOAL

Section

- 315.200 Selection of the Permanency Goal
- 315.205 Return Home Within Five Months
- 315.210 Return Home Within One Year
- 315.215 Return Home Pending Status Hearing
- 315.220 Substitute Care Pending Court Determination on Termination of Parental Rights
- 315.225 Adoption
- 315.230 Guardianship

DEPARTMENT OF CHILDREN AND FAMILY SERVICES

NOTICE OF PROPOSED AMENDMENTS

315.235	Independence
315.240	Cannot Be Provided for in a Home Environment
<u>315.241</u>	<u>Continuing Foster Care</u>
315.245	Concurrent Planning
315.250	Applicability of Reunification Services

SUBPART D: EVALUATION AND DECISIONMAKING

Section	
315.300	Evaluating Whether Children in Placement Should Be Returned Home
315.305	When Reunification Is Inappropriate
315.310	Termination of Services and Planning for Aftercare

AUTHORITY: Implementing and authorized by the Children and Family Services Act [20 ILCS 505], the Abused and Neglected Child Reporting Act [325 ILCS 5], the Adoption Assistance and Child Welfare Act of 1980, amending Section 475 of the Social Security Act (42 USCA 670 et seq.), the Juvenile Court Act of 1987 [705 ILCS 405], and the Adoption Act [750 ILCS 50].

SOURCE: Adopted at 23 Ill. Reg. 2539, effective February 1, 1999; amended at 25 Ill. Reg. 11785, effective September 14, 2001; amended at 26 Ill. Reg. 7720, effective May 24, 2002; amended at 26 Ill. Reg. 11765, effective August 1, 2002; amended at 28 Ill. Reg. 8465, effective June 4, 2004; amended at 32 Ill. Reg. 8103, effective May 30, 2008; amended at 35 Ill. Reg. _____, effective _____.

SUBPART C: SELECTING THE PERMANENCY GOAL

Section 315.200 Selection of the Permanency Goal

a) Types of Permanency Goals

A permanency goal is the desired outcome of intervention and service that is determined to be consistent with the health, safety, well-being and best interests of the child. A description and the criteria for selection of each of the goals are included in Sections 315.205 through ~~315.241~~315.240. The goals that may be selected for children placed apart from their families are listed below followed in parentheses by the numerical code that is entered into the Department's Child and Youth Centered Information System (CYCIS):

- 1) return home within five months (21);
- 2) return home within 12 months (22);

DEPARTMENT OF CHILDREN AND FAMILY SERVICES

NOTICE OF PROPOSED AMENDMENTS

- 3) return home pending status hearing (23);
- 4) substitute care pending court determination on termination of parental rights (24);
- 5) adoption, provided that parental rights have been terminated or relinquished (25);
- 6) guardianship (26);
- 7) independence (27); ~~or~~
- 8) cannot be provided for in a home environment (28); ~~or~~
- 9) continuing foster care (29).

b) Process for Selection

- 1) During the first 12 months, prior to the first court permanency hearing, the Department or purchase of service agency selects the permanency goal. At the first permanency hearing the Department or purchase of service agency will recommend a permanency goal, but the court selects the goal.
- 2) An initial permanency goal will be established by the Department or purchase of service agency in time to ensure submittal of the service plan to the juvenile court no later than 45 days after the child's placement as required by Section 2-10 of the Juvenile Court Act of 1987 [705 ILCS 405/2-10], and only after:
 - A) an assessment has been completed with the family and reviewed and approved by the casework supervisor; and
 - B) the initial family meeting has been held.

c) Changing the Permanency Goal

A permanency goal may only be changed:

- 1) within the first 12 months following case opening by the caseworker with

DEPARTMENT OF CHILDREN AND FAMILY SERVICES

NOTICE OF PROPOSED AMENDMENTS

the approval of the supervisor; or

- 2) within the first 12 months following case opening at an administrative case review or a decision review; or
- 3) when selected by the court at the permanency hearing pursuant to Section 2-28 of the Juvenile Court Act of 1987 [705 ILCS 405/2-28]. A permanency goal selected by the court cannot be changed without the approval of the court.

(Source: Amended at 35 Ill. Reg. _____, effective _____)

Section 315.241 Continuing Foster Carea) Description

The guardianship of the minor will remain with the Department and the minor will be in continuing foster care if all other permanency goals have been ruled out.

b) Criteria for Selection

Continuing foster care may be selected as the permanency goal when:

- 1) the Department of Children and Family Services has custody and guardianship of the minor;
- 2) all other permanency goals have been ruled out based on the minor's best interest;
- 3) the court has selected the goal, having found compelling reasons to place the minor in continuing foster care;
- 4) the minor has lived with the relative or foster parent for at least one year; and
- 5) the relative or foster parent currently caring for the child is willing to provide, and capable of providing, the child with a stable and permanent environment for the foreseeable future.

c) Compelling Reasons

DEPARTMENT OF CHILDREN AND FAMILY SERVICES

NOTICE OF PROPOSED AMENDMENTS

Compelling reasons must be documented, reviewed and considered by the court, and include:

- 1) the minor does not wish to be adopted or to be placed in the guardianship of his or her relative or foster care placement;
- 2) the minor exhibits an extreme level of need such that the removal of the minor from his or her placement would be detrimental to the child;
or
- 3) the minor who is the subject of the permanency hearing has existing close and strong bonds with a sibling, and achievement of another permanency goal would substantially interfere with the minor's sibling relationship, taking into consideration the nature and extent of the relationship, and whether ongoing contact is in the minor's best interest, including long-term emotional interest, as compared with the legal and emotional benefit of permanence.

(Source: Added at 35 Ill. Reg. _____, effective _____)

SUBPART D: EVALUATION AND DECISIONMAKING

Section 315.305 When Reunification Is Inappropriate

If the parents fail to demonstrate reasonable progress in correcting the conditions that led to the removal of the child within the time frames required by the permanency goal of return home that was assigned by the Department and/or the court, the following alternatives to return home shall be discussed with the parents:

- a) voluntary surrender of parental rights for purpose of freeing the child for adoption;
- b) consent to the adoption of the child by a specified person;
- c) involuntary termination of parental rights;
- d) private guardianship;
- e) continuing foster care.

DEPARTMENT OF CHILDREN AND FAMILY SERVICES

NOTICE OF PROPOSED AMENDMENTS

(Source: Amended at 35 Ill. Reg. _____, effective _____)

DEPARTMENT OF CHILDREN AND FAMILY SERVICES

NOTICE OF PROPOSED AMENDMENTS

- 1) Heading of the Part: Administrative Case Reviews and Court Hearings
- 2) Code Citation: 89 Ill. Adm. Code 316
- 3) Section Number: 316.120 Proposed Action:
Amended
- 4) Statutory Authority: Children and Family Services Act [20 ILCS 505/5]
- 5) A Complete Description of the Subjects and Issues Involved: The Department is amending Section 316.120, Permanency Hearings. The proposed amendment is being made to include the additional permanency goal of "Continuing Foster Care" as recently added into law by Public Act 96-0600, effective August 21, 2009.
- 6) Published studies or reports, and sources of underlying data used to compose this rulemaking: None
- 7) Will this rulemaking replace any emergency rulemaking currently in effect? No
- 8) Does this rulemaking contain an automatic repeal date? No
- 9) Does this rulemaking contain incorporations by reference? No
- 10) Are there any proposed rulemakings to this Part pending? No
- 11) Statement of Statewide Policy Objective: This rulemaking does not create or expand a State mandate as defined in Section 3(b) of the State Mandates Act [30 ILCS 805/3(b)].
- 12) Time, Place, and Manner in which interested persons may comment on this proposed rulemaking: Comments on this proposed rulemaking may be submitted in writing for a period of 45 days following publication of this Notice. Comments should be submitted to:

Jeff E. Osowski
Department of Children and Family Services
406 East Monroe, Station # 65
Springfield, Illinois 62701-1498

Telephone: 217/524-1983

DEPARTMENT OF CHILDREN AND FAMILY SERVICES

NOTICE OF PROPOSED AMENDMENTS

TTY: 217/524-3715
E-mail: cfpolicy@idcfs.state.il.us

The Department will consider fully all written comments on this proposed rulemaking submitted during the 45-day comment period. Comments submitted by small businesses should be identified as such.

- 13) Initial Regulatory Flexibility Analysis:
- A) Types of businesses affected: The Department has determined that the proposed amendment will not have an economic impact on small businesses.
 - B) Reporting, bookkeeping or other procedures required for compliance: None
 - C) Types of professional skills necessary for compliance: None
- 14) Regulatory Agenda on which this rulemaking was summarized: This rulemaking was not included on either of the 2 most recent regulatory agendas because the revisions were not anticipated at the time the regulatory agenda was completed.

The full text of the Proposed Amendment begins on the next page:

DEPARTMENT OF CHILDREN AND FAMILY SERVICES

NOTICE OF PROPOSED AMENDMENTS

TITLE 89: SOCIAL SERVICES

CHAPTER III: DEPARTMENT OF CHILDREN AND FAMILY SERVICES

SUBCHAPTER a: SERVICE DELIVERY

PART 316

ADMINISTRATIVE CASE REVIEWS AND COURT HEARINGS

Section

316.10	Purpose
316.20	Definitions
316.30	Administrative Case Review System
316.40	Frequency of Administrative Case Reviews
316.50	Conduct and Participation at Administrative Case Reviews
316.60	Notice of Administrative Case Reviews
316.70	Roles and Responsibilities of the Administrative Case Reviewer
316.80	Caseworker Responsibilities at the Administrative Case Review
316.90	Decision Review
316.100	Appealability of Decisions
316.110	The Department's Role in the Juvenile Court
316.120	Permanency Hearings
316.130	Caseworker Responsibilities at the Permanency Hearing
316.140	Compliance with the Client Service Planning Requirements

AUTHORITY: Implementing and authorized by Section 5 of the Children and Family Services Act [20 ILCS 505/5], Section 7.1 of the Abused and Neglected Child Reporting Act [325 ILCS 5/7.1], the Adoption Assistance and Child Welfare Act of 1980, amending Section 475 of the Social Security Act (42 USCA 675), Section 2-5 of the Juvenile Court Act of 1987 [705 ILCS 405/2-5], and Section 1 of the Adoption Act [750 ILCS 50/1].

SOURCE: Adopted at 23 Ill. Reg. 2528, effective February 1, 1999; amended at 26 Ill. Reg. 16909, effective November 8, 2002; amended at 35 Ill. Reg. _____, effective _____.

Section 316.120 Permanency Hearings

- a) The Department or its provider agency will participate in permanency hearings conducted by the court at 12 months following the temporary custody hearing and every six months thereafter in order to:
 - 1) select the permanency goal;

DEPARTMENT OF CHILDREN AND FAMILY SERVICES

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- 2) review the appropriateness of the services contained in the plan and whether those services have been provided and, if not, why not;
 - 3) determine whether reasonable efforts have been made by all parties to the service plan to achieve the goal; and
 - 4) evaluate whether the plan and goal have been achieved.
- b) The Department or its provider agency shall provide, no later than 14 days in advance of the hearing, a copy of the most recent service plan, prepared within the prior six months, to the court and all parties to the permanency hearings.
- c) If not contained in the plan, the Department or its provider agency shall also include a report setting forth:
- 1) any special physical, psychological, educational, medical, emotional, or other needs of the minor or his or her family that are relevant to a permanency or placement determination; and
 - 2) for any minor age 16 or over, a written description of the programs or services that will enable the minor to prepare for independent living.
- d) The Department's or its provider agency's written report must explain why, if the goal is other than return home, continued involvement is appropriate and why termination of parental rights or private guardianship is not being sought.
- e) The Department's or its provider agency's written report must explain why, if the goal recommended is continuing foster care, all other goals have been ruled out based on the child's best interest and delineate the compelling reasons for selection of this goal.
- f)e) The Department's or its provider agency's caseworker is required to appear and testify at the hearing and prepare a written report for the court.

(Source: Amended at 35 Ill. Reg. _____, effective _____)

EXECUTIVE ETHICS COMMISSION

NOTICE OF PROPOSED AMENDMENT

- 1) Heading of the Part: Organization, Information, Rulemaking and Hearings
- 2) Code Citation: 2 Ill. Adm. Code 1620
- 3) Section Number: 1620.825 Proposed Action:
New Section
- 4) Statutory Authority: Implementing and authorized by Section 50-39 of the Illinois Procurement Code [30 ILCS 500/50-39]
- 5) A Complete Description of the Subjects and Issues Involved: The rules are being amended to add provisions relating to procurement ex parte communications that must be disclosed pursuant to the Illinois Procurement Code [30 ILCS 500/50-39].
- 6) Published studies or reports, and sources of underlying data, used to compose this rulemaking: None
- 7) Will this rulemaking replace any emergency rulemaking currently in effect? No
- 8) Does this rulemaking contain an automatic repeal date? No
- 9) Does this rulemaking contain incorporations by reference? No
- 10) Are there any other proposed rulemakings pending on this Part? No
- 11) Statement of Statewide Policy Objective: This rulemaking does not affect units of local government.
- 12) Time, Place and Manner in which interested persons may comment on this proposed rulemaking: Written comments may be forwarded to:

Chad D. Fornoff, Executive Director
Executive Ethics Commission
401 S. Spring Street
Wm. Stratton Building, Room 513
Springfield, IL 62706

217/558-1393

EXECUTIVE ETHICS COMMISSION

NOTICE OF PROPOSED AMENDMENT

All written comments filed within 45 days after the date of publication of this Notice will be considered.

- 13) Initial Regulatory Flexibility Analysis:
- A) Types of small businesses, small municipalities and not for profit corporations affected: None
 - B) Reporting, bookkeeping or other procedures required for compliance: None
 - C) Types of professional skills necessary for compliance: None
- 14) Regulatory Agenda on which this rulemaking was summarized: July 2010

The full text of the Proposed Amendments begins on the next page:

EXECUTIVE ETHICS COMMISSION

NOTICE OF PROPOSED AMENDMENT

TITLE 2: GOVERNMENTAL ORGANIZATION
SUBTITLE E: MISCELLANEOUS STATE AGENCIES
CHAPTER VI: EXECUTIVE ETHICS COMMISSION

PART 1620

ORGANIZATION, INFORMATION, RULEMAKING AND HEARINGS

SUBPART A: ORGANIZATION

Section	
1620.5	Definitions
1620.10	Composition of Executive Ethics Commission
1620.20	Officers
1620.30	Appointment of Executive Director
1620.40	Duties of Executive Director
1620.50	Duties of Staff

SUBPART B: INFORMATION

Section	
1620.110	Requests for Records
1620.120	Response to Requests for Records
1620.130	Appeal of a Denial
1620.140	Copies of Public Records – Fees

SUBPART C: RULEMAKING

Section	
1620.200	Rulemaking Procedures

SUBPART D: INVESTIGATIONS

Section	
1620.300	Conduct of Investigations
1620.310	State Officer or Employee Case Initiation Form
1620.320	Case Initiation Form – Contents
1620.330	Opening an Investigation File
1620.340	Referral to the Appropriate Executive Inspector General
1620.350	Investigations

EXECUTIVE ETHICS COMMISSION

NOTICE OF PROPOSED AMENDMENT

1620.360 Investigations Not Concluded Within Six Months (Repealed)

SUBPART E: HEARINGS

Section

1620.420 Attorney of Record
1620.430 Filing Requirements
1620.440 Complaint
1620.450 Complaint – Required Provisions
1620.460 Service
1620.470 Objections
1620.480 Sufficiency of the Complaint
1620.490 Discovery
1620.500 Subpoenas
1620.510 Motions
1620.520 Hearings
1620.530 Decision of the Commission

SUBPART F: REVOLVING DOOR PROHIBITION

Section

1620.610 Revolving Door Prohibition
1620.620 Waiver of Revolving Door Prohibition – Commission Procedure (Repealed)
1620.630 Finality of Decision (Repealed)
1620.640 Waiver of Prohibition of Executive Inspector General Employees as Judicial Appointee
1620.650 Waiver of Prohibition of Executive Inspector General Employees as Judicial Appointee – Commission Procedure

SUBPART G: GIFT BAN

Section

1620.700 Gift Ban

SUBPART H: MISCELLANEOUS FILINGS

Section

1620.800 Personnel Policies
1620.810 Quarterly and Six-Month Status Reports

EXECUTIVE ETHICS COMMISSION

NOTICE OF PROPOSED AMENDMENT

1620.820	Ex Parte Communications
<u>1620.825</u>	<u>Ex Parte Communications Related to Procurement</u>
1620.830	Designation of Ethics Officer

SUBPART I: ETHICS TRAINING

Section	
1620.900	Ethics Training

SUBPART J: RELEASE OF INVESTIGATION REPORTS

Section	
1620.1000	Investigation Reports Finding a Violation
1620.1010	Investigation Reports Finding No Violation
1620.1020	Release of Summary Reports

SUBPART K: DISCIPLINARY ACTION

Section	
1620.1100	Disciplinary Action under the Ethics Act
1620.1110	Hearings to Contest Disciplinary Actions

SUBPART L: PROCUREMENT CODE CONFLICTS OF INTEREST EXEMPTIONS

Section	
1620.1200	Procurement Code Conflicts of Interest Exemptions

AUTHORITY: Implementing Sections 20-50 and 20-55 of the State Officials and Employees Ethics Act [5 ILCS 430/20-50 and 20-55] and Section 50-39 of the Illinois Procurement Code [30 ILCS 500/50-39] and authorized by Section 20-15 of the State Officials and Employees Ethics Act [5 ILCS 430/20-15] and [30 ILCS 500/50-39].

SOURCE: Adopted by emergency rulemaking at 29 Ill. Reg. 3340, effective February 23, 2005, for a maximum of 150 days; adopted at 29 Ill. Reg. 9619, effective July 1, 2005; amended at 32 Ill. Reg. 7099, effective July 1, 2008; amended at 34 Ill. Reg. 13108, effective August 27, 2010; amended at 34 Ill. Reg. 19507, effective December 6, 2010; amended at 35 Ill. Reg. _____, effective _____.

SUBPART H: MISCELLANEOUS FILINGS

EXECUTIVE ETHICS COMMISSION

NOTICE OF PROPOSED AMENDMENT

Section 1620.825 Ex Parte Communications Related to Procurement

- a) Any State officer or employee who receives a written or oral communication that imparts or requests material information or makes a material argument regarding potential action concerning a procurement matter, including but not limited to an application, a contract or a project, shall report the communication to the Procurement Policy Board. [30 ILCS 500/50-39(a)]
- b) Communications
- 1) A communication that imparts or requests material information or makes a material argument is a communication that a reasonable person would believe was made for the purpose of influencing procurement decisions, including but not limited to decisions:
- A) establishing or defining a procurement need or method of source selection;
- B) drafting, reviewing or preparing specifications, plans or requirements;
- C) drafting, reviewing or preparing any invitations for bid, requests for proposals requests for information, sole source procurement justifications, emergency procurement justifications or selection information;
- D) evaluating bids, responses and offers;
- E) publishing notices to the procurement bulletins;
- F) letting or awarding a contract;
- G) determining the contents of the procurement file or the contract file;
- H) resolving protests;

EXECUTIVE ETHICS COMMISSION

NOTICE OF PROPOSED AMENDMENT

- I) determining inclusion on prequalification lists or prequalification in general;
 - J) identifying potential conflicts of interest or voiding or allowing a contract, bid, offer or subcontract for a conflict of interest;
 - K) voiding or allowing a contract or subcontract pursuant to Section 50-50 of the Illinois Procurement Code;
 - L) determining firm performance evaluations;
 - M) determining suspensions or debarments; and
 - N) approving change orders or the renewal or extension of an existing contract.
- 2) Excluded Communications
Notwithstanding subsection (b)(1), unsolicited communications providing general information about products, services or industry best practices that are not further disseminated, considered or used by the receiving employee or any person in a procurement decision are not required to be reported under this Section.
- c) This Section does not apply to the following communications:
- 1) Communications made by a person publicly made in a public forum;
 - 2) Communications regarding matters of procedure and practice, such as format, the number of copies required, the manner of filing, and the status of a matter;
 - 3) Communications regarding the administration and implementation of an existing contract, except communications regarding change orders or the renewal or extension of an existing contract. [30 ILCS 500/150-39(a)]
 - 4) Communications between a State employee and:
 - A) the State employee's agency head;

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- B) other State employees of that agency;
 - C) employees of the Executive Ethics Commission; and
 - D) employees of the Department of Central Management Services' Bureau of Strategic Sourcing and Procurement (BOSSAP) concerning procurement activities being conducted by BOSSAP on behalf of the employee's agency.
- d) Upon receipt of a communication described in subsection (b), the State officer or employee shall report the communication to the Procurement Policy Board in accordance with the Board's rules.
- e) For purposes of this Section, "State employee" means:
- 1) any person employed full-time, part-time or pursuant to a contract and whose employment duties are subject to the direction and control of an employer with regard to the material details of how the work is to be performed; or
 - 2) any appointed or elected commissioner, trustee, director or board member of a board of a State agency; or
 - 3) any other person appointed to a position in or with a State agency, regardless of whether the position is compensated.

(Source: Added at 35 Ill. Reg. _____, effective _____)

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- 1) Heading of the Part: Licensing and Regulation of Pawnbrokers
- 2) Code Citation: 38 Ill. Adm. Code 360
- 3)

<u>Section Numbers</u> :	<u>Proposed Action</u> :
360.10	Amendment
360.100	Amendment
360.110	Amendment
360.120	Amendment
360.130	Amendment
360.135	New Section
360.140	Amendment
360.150	Amendment
360.160	Amendment
360.200	Amendment
360.210	Amendment
360.300	Amendment
360.310	Amendment
360.400	Amendment
360.410	Amendment
360.420	Amendment
360.500	Amendment
360.510	Amendment
360.520	Amendment
360.600	Amendment
360.610	Amendment
360.620	Amendment
360.630	Amendment
360.640	Amendment
360.700	New Section
360.710	New Section
- 4) Statutory Authority: Implementing and authorized by the Pawnbroker Regulation Act [205 ILCS 510]
- 5) A Complete Description of the Subjects and Issues Involved: Pursuant to PA 96-1365, all pawnbrokers will be required to acquire and maintain insurance that covers 2 times the aggregate value of all the pawnshop's outstanding loans. The Department will call for proof of insurance prior to issuing or renewing all future licenses. Compliance may also

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be verified during examinations or any other time at the discretion of the Department. The Act also added a new requirement for employees of pawnshops who have the authority to act in a managerial capacity to obtain a license from the Department. Once issued, a license will be valid unless revoked or voluntarily surrendered for two years. Further, a valid license may be used in connection with the holder's employment at any pawnshop regulated by the Department.

In addition to the pawnbroker amendments mentioned above, the Department will also be implementing PA 96-1038. We will add a new Subpart to this Part addressing the statutory requirement to register and pay a fee to the Sheriff of each county where the unregistered buyer intends to conduct business for each event at each location.

The Department has also taken this opportunity to make numerous non-substantive changes to reflect the consolidation of agencies into the Department of Financial and Professional Regulation and the creation of the Division of Banking.

- 6) Any published studies or reports, along with the sources of underlying data, that were used when comprising this rulemaking: None
- 7) Will this rulemaking replace any emergency rulemaking currently in effect? No
- 8) Does this rulemaking contain an automatic repeal date? No
- 9) Does this rulemaking contain incorporations by reference? No
- 10) Are there any other proposed rulemakings pending on this Part? No
- 11) Statement of Statewide Policy Objectives: This rulemaking will not require a local government to establish, expand or modify its activities in such a way as to necessitate additional expenditures from local revenues.
- 12) Time, Place, and Manner in which interested persons may comment on this proposed rulemaking: Persons who wish to comment on this proposed rulemaking may submit written comments no later than 45 days after the publication of this Notice to:

Interested persons may submit written comments to:

Department of Financial and Professional Regulation
Attention: Craig Cellini

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320 West Washington, 3rd Floor
Springfield, IL 62786

217/785/0813 Fax: 217/557-4451

All written comments received within 45 days after this issue of the *Illinois Register* will be considered.

13) Initial Regulatory Flexibility Analysis:

- A) Types of small businesses, small municipalities and not for profit corporations affected: This rulemaking applies to pawnshops regulated by the Department of Financial and Professional Regulation, Division of Banking. It also applies to all entities and individuals that purchase precious metals from the public.
- B) Reporting, bookkeeping or other procedures required for compliance: New requirements are included in these proposed amendments.
- C) Types of professional skills necessary for compliance: None

14) Regulatory Agenda on which this rulemaking was summarized: January 2011

The full text of the Proposed Amendments begins on the next page:

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TITLE 38: FINANCIAL INSTITUTIONS

CHAPTER II: DEPARTMENT OF FINANCIAL AND PROFESSIONAL REGULATION
OFFICE OF BANKS AND REAL ESTATE

PART 360

LICENSING AND REGULATION OF PAWNBROKERS

SUBPART A: DEFINITIONS

Section
360.10 Definitions

SUBPART B: PAWNSHOP LICENSE

Section
360.100 Purpose
360.110 Application for License
360.120 Processing of Application
360.130 Standards for Licensure
360.135 Licensing Requirements for Pawnbroker Managers
360.140 Initial Applications for License from Persons Operating or Who Have Operated a Pawnshop for the Two Years Preceding July 1, 1998
360.150 Change in Control or Form of Ownership, Change in Location, Change in Name of Pawnshop, Voluntary Surrender of License; Fees
360.160 Expiration and Renewal of Licenses; Fees
360.170 Display of License; Duplicate License

SUBPART C: FORMS

Section
360.200 Purpose and Scope
360.210 Forms

SUBPART D: UNIFORM RULES FOR HEARINGS BEFORE THE SECRETARY
COMMISSIONER

Section
360.300 Scope
360.310 Procedure for Hearings before the SecretaryCommissioner

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SUBPART E: RULES AND PROCEDURES APPLICABLE
TO PROCEEDINGS RELATING TO ORDERS

Section	Scope
360.400	Scope
360.410	Grounds for an Order
360.420	Effective Date of Order; Service

SUBPART F: RULES AND PROCEDURES APPLICABLE TO PROCEEDINGS RELATING
TO ASSESSMENT AND COLLECTION OF CIVIL MONEY PENALTIES

Section	Scope
360.500	Scope
360.510	Assessment of Penalties
360.520	Effective Date of, Payment under, and Service of an Order to Pay

SUBPART G: RULES AND PROCEDURES APPLICABLE TO PROCEEDINGS FOR
REVOCAION OR SUSPENSION OF LICENSE

Section	Scope
360.600	Scope
360.610	Grounds for Suspension of License
360.620	Grounds for Revocation of License
360.630	Notice to Customers
360.640	Effective Date of Revocation or Suspension; Service

SUBPART H: FEE SCHEDULE FOR UNREGISTERED BUYERS

<u>Section</u>	<u>Definitions</u>
<u>360.700</u>	<u>Definitions</u>
<u>361.710</u>	<u>Temporary Buying Location Registration Fees</u>

AUTHORITY: Implementing and authorized by the Pawnbroker Regulation Act [205 ILCS 510].

SOURCE: Emergency Rule adopted at 22 Ill. Reg. 12963, effective July 1, 1998, for a maximum of 150 days; adopted at 22 Ill. Reg. 19730, effective October 29, 1998; amended at 28

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Ill. Reg. 6967, effective April 29, 2004; amended at 35 Ill. Reg. _____, effective _____.

SUBPART A: DEFINITIONS

Section 360.10 Definitions

For purposes of this Part:

"Applicant" means the individual or business entity applying to the ~~Secretary~~Commissioner for a license.

~~"Commissioner" means the Commissioner of Banks and Real Estate, or a person authorized by the Commissioner to act in the Commissioner's stead.~~

~~"Department" means the Department of Financial and Professional Regulation.~~

~~"Director" means the Director of the Division of Banking with the authority delegated by the Secretary.~~

~~"Division" means the Department of Financial and Professional Regulation-
Division of Banking.~~

"License" means the authority to operate a pawnshop as issued by the ~~Secretary~~Commissioner.

"Licensee" means the individual or business entity who has been issued a license by the ~~Secretary~~Commissioner.

"Pawnbroker" shall have the same meaning ascribed to that term in Section 1 of the Pawnbroker Regulation Act [205 ILCS 510/1].

"Pledger" means any person who has pledged tangible personal property as collateral for a pawn loan.

"Principal party" means any officer or director of a pawnshop or a corporation that owns or seeks to own a pawnshop; any manager of a limited liability company that is a pawnshop or that owns or seeks to own a pawnshop; any shareholder or member owning 10% or more of the outstanding stock or

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membership interests of a pawnshop or a business entity that owns or seeks to own a pawnshop; or any partner, whether general or limited, of a partnership that is a pawnshop or that owns or seeks to own a pawnshop.

"Respondent" means the person named in an administrative decision.

"Secretary" means the Secretary of the Department of Financial and Professional Regulation.

(Source: Amended at 35 Ill. Reg. _____, effective _____)

SUBPART B: PAWNSHOP LICENSE

Section 360.100 Purpose

- a) This Subpart sets forth:
 - 1)a) where required applications and notices must be filed;
 - 2)b) the contents of the application package;
 - 3)e) the locations where the application package may be obtained;
 - 4)d) the procedures to be followed by both the ~~Secretary~~Commissioner and the applicant during the processing of an application or notice;
 - 5)e) the fee which will be levied for each type of application or notice;
 - 6)f) the standards for licensure;
 - 7)g) the procedures to be followed by both the ~~Secretary~~Commissioner and a licensee relating to a change in location or name of a pawnshop;
 - 8)h) the procedures to be followed by the ~~Secretary~~Commissioner, a licensee and an acquiring party relating to a change in control or form of ownership of a pawnshop;
 - 9)i) the procedures to be followed by both the ~~Secretary~~Commissioner and a licensee relating to the renewal of a license; and

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~~10)j)~~ requirements relating to the display of a license.

- b) A copy of the fee schedule established by the ~~Secretary~~Commissioner may be obtained upon written request.

(Source: Amended at 35 Ill. Reg. _____, effective _____)

Section 360.110 Application for License

- a) Requirement, ~~Where~~where to ~~File~~file. Section 0.05(c) of the Pawnbroker Regulation Act [205 ILCS 510/0.05(c)] provides that it is unlawful to operate a pawnshop without a license issued by the ~~Secretary~~Commissioner. All requests for an application package must be directed to the ~~Division Office of Banks and Real Estate, Bureau of Banks and Trust Companies, 500 East Monroe, Springfield, Illinois 62701-1509 (Telephone (217) 785-2900) or to the Office of Banks and Real Estate, Bureau of Banks and Trust Companies, 310 South Michigan Avenue, Suite 2130, Chicago, Illinois 60604-4278 (Telephone (312) 793-3000)~~ by written correspondence, ~~or~~ telephone ~~or electronic communication~~. A separate license is required for each pawnshop location.
- b) Instructions, ~~Content~~contents. An application for a license must be submitted on the form prescribed in Section 360.210 of this Part. An application for a license shall be made under oath and state the full name and address of the applicant together with any other relevant information the ~~Secretary~~Commissioner shall require. The application shall also include, but not be limited to, the following requirements:
- 1) Disclosure of Principal Parties. The full name and place of residence of all principal parties must be provided.
 - 2) Background Investigation. The ~~Secretary~~Commissioner may require that credit and criminal history record investigations be conducted on each applicant and principal party. Each applicant and principal party shall complete an Authorization For Release of Personal Information form that authorizes the ~~Secretary~~Commissioner to conduct a criminal history record investigation and a review of retail credit agencies' records (including credit reports and ratings). At the request of the ~~Secretary~~Commissioner, each applicant and principal party shall submit to, and have performed, a

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criminal history record investigation in the form and manner required by the Department of State Police and the Federal Bureau of Investigation. The ~~Secretary~~Commissioner need not cause additional criminal history record investigations to be conducted on an applicant or principal party for whom the ~~Secretary~~Commissioner or any other government agency has caused such investigations to have been conducted previously unless such additional investigations are otherwise required by law or unless the ~~Secretary~~Commissioner deems such additional investigations to be necessary for the purposes of carrying out the ~~Secretary's~~Commissioner's statutory powers and responsibilities.

- 3) Insurance Requirement. The applicant, whether seeking a new license or renewing an existing license, shall provide the Secretary with proof of hazard insurance that evidences the name and address of the insuring company, the insurance policy number, the extent of coverage relating to property in active pawn, the amount of coverage, and the policy's expiration date. Thereafter, this information shall be held in file by the applicant for inspection at all times on demand by the Secretary.
- 4) Fees. The applicant must submit the Application Fee of \$765 with the completed application. Unless otherwise permitted by the ~~Secretary~~Commissioner, the payment of all fees shall be made by certified check, money order, an electronic transfer of funds, or an automatic debit of an account. Certified checks or money orders shall be made payable to the ~~Department~~Office of Banks and Real Estate.

(Source: Amended at 35 Ill. Reg. _____, effective _____)

Section 360.120 Processing of Application

- a) Initial ~~Review~~review. The ~~Secretary~~Commissioner shall evaluate all applications within 30 business days after receipt and acknowledge completeness, identify deficiencies, and request additional information, if necessary. A completed application is one that conforms to the instructions provided in the application package and for which all fees have been paid. The ~~Secretary~~Commissioner may reject an incomplete application.
- b) Failure to Complete Application~~complete application~~. If a complete application has not been filed with the ~~Secretary~~Commissioner within 30 business days after

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the ~~Secretary's~~~~Commissioner's~~ request for additional information, the application shall be denied and the applicable fee shall be forfeited, unless a further extension of time has been granted by the ~~Secretary~~~~Commissioner~~.

- c) Consideration of ~~Completed Application~~~~completed application~~. Upon receipt of a completed application and all required fees, a determination will be made by the ~~Secretary~~~~Commissioner~~ within 30 business days to approve or deny the application request, unless the ~~Secretary~~~~Commissioner~~ determines additional time is necessary (e.g., pending background investigations). A written notice of the ~~Secretary's~~~~Commissioner's~~ decision will be mailed to the applicant. The written notice for all denied applications will also include the ~~reasons~~~~reason(s)~~ for denial. The applicable fee for all denied applications will not be refunded to the applicant.
- d) Petition for ~~Reconsideration~~~~reconsideration~~. An applicant has the right to petition the ~~Secretary~~~~Commissioner~~ for reconsideration within 30 business days after receipt of the written notice of license denial. The petition must be in writing and should: address the ~~reasons~~~~reason(s)~~ for denial as cited by the ~~Secretary~~~~Commissioner~~, specify reasons why the ~~Secretary~~~~Commissioner~~ should reconsider the decision, and provide relevant information that supports the reasons set forth above. The ~~Secretary~~~~Commissioner~~ shall respond to all petitions within 30 business days after receipt, unless the ~~Secretary~~~~Commissioner~~ determines additional time is necessary.

(Source: Amended at 35 Ill. Reg. _____, effective _____)

Section 360.130 Standards for Licensure

- a) Unless otherwise authorized by the ~~Secretary~~~~Commissioner~~, in order to be eligible for a license to operate a pawnshop, each applicant and principal party must:
- 1)a) if an individual, be ~~18~~~~eighteen~~ years of age or older;
 - 2)b) not have been convicted of a felony or of any criminal offense relating to dishonesty or breach of trust in connection with the operations of a pawnshop;
 - 3)e) possess the character and general fitness necessary to warrant belief that

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the business will be operated in a lawful and fair manner.

- b) In determining whether to grant a license, the ~~Secretary~~~~Commissioner~~ shall consider the nature of the offense, the amount of time since the conviction, and any other mitigating factors the ~~Secretary~~~~Commissioner~~ may deem appropriate with regards to an applicant or principal party who has been convicted of a felony or any criminal offense relating to dishonesty or breach of trust in connection with the operations of a pawnshop.

(Source: Amended at 35 Ill. Reg. _____, effective _____)

Section 360.135 Licensing Requirements for Pawnbroker Managers

- a) Requirements and Conditions. Any individual who is not a principal party or owner and that manages a pawnshop or who acts in a managerial capacity shall secure a managerial license from the Department. A license will be issued only after the individual has evidenced, through filing an application as specified by the Department, that the individual has not been convicted of a felony or of any criminal offense relating to dishonesty or breach of trust in connection with the operation of a pawnshop.
- b) Operating Standards. Each pawnshop shall employ at least one individual with the authority to act in a managerial capacity. At all times a pawnshop is open for business, an individual with the authority to act in a managerial capacity must be working.
- c) Transferability of License. No managerial license shall be transferable but shall be valid in connection with the holder's employment at any pawnshops regulated by the Department.
- d) Fees and Duration. Each managerial license application shall be submitted with a filing fee of \$50. Unless revoked or voluntarily surrendered, all managerial licenses issued by the Department shall be valid for a period of two years.

(Source: Added at 35 Ill. Reg. _____, effective _____)

Section 360.140 Initial Applications for License from Persons Operating or Who Have Operated a Pawnshop for the Two Years Preceding July 1, 1998

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- a) Unless otherwise authorized by the ~~Secretary~~Commissioner, for persons who have operated a pawnshop at any time between July 1, 1996 through June 30, 1998, in order to be eligible for a license to operate a pawnshop, each applicant and principal party must:
- 1)a) not have been convicted of a felony or of any criminal offense relating to dishonesty or breach of trust in connection with the operations of a pawnshop;
- 2)b) provide the ~~Secretary~~Commissioner with satisfactory evidence (e.g., a copy of a license issued from a municipality or copy of pages from a standard record book) that business activities were being conducted within the time period stated above.
- b) In determining whether to grant a license, the ~~Secretary~~Commissioner shall consider the nature of the offense, the amount of time since the conviction, and any other mitigating factors the ~~Secretary~~Commissioner may deem appropriate with regards to an applicant or principal party who has been convicted of a felony or any criminal offense relating to dishonesty or breach of trust in connection with the operations of a pawnshop.

(Source: Amended at 35 Ill. Reg. _____, effective _____)

Section 360.150 Change in Control or Form of Ownership, Change in Location, Change in Name of Pawnshop, Voluntary Surrender of License; Fees

- a) Change in Control or Form of Ownership. An application must be filed, by the acquiring party, not less than 30 days prior to the anticipated change in control or change in the form of ownership of a pawnshop. As used in this Section, "control" means a change involving the sale, assignment or transfer of a pawnshop; the addition or elimination of any general or limited partner; or a 10 percent or more change in the ownership of the outstanding stock, or membership interest, of a corporation that owns a pawnshop. A change in the form of ownership is considered to be a change from one type of business entity to another type of business entity (e.g., sole proprietorship to a corporation, partnership to sole proprietorship). The application must be submitted on the form prescribed in Section 360.210 of this Part, in accordance with the ~~Secretary's~~Commissioner's instructions. The payment of the applicable Change in Control or Form of Ownership Fee must accompany the application. No change

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in control or form of ownership shall occur until approved by the ~~Secretary~~Commissioner. The ~~Secretary~~Commissioner may prohibit a change in control or form of ownership from occurring if the licensee does not meet the license standards set forth in Section 360.130 of this Part. The processing of the application shall be conducted in the same manner as provided in Section 360.120 of this Part. The Change of Control or Form of Ownership Fee is \$300.

- b) Gift, Bequest, or Inheritance. Any person who, by gift, bequest, or inheritance, obtains ownership rights to an existing pawnshop or ownership rights in a company that controls the pawnshop such that ownership rights would constitute control of the pawnshop or company, may obtain title and ownership rights, but may not exercise management or control of the business and affairs of the pawnshop or vote so as to exercise management or control unless and until the ~~Secretary~~Commissioner approves an application for the change in control as provided in this Section, unless such person has requested, in writing, and received an exemption from the ~~Secretary~~Commissioner.
- c) Change in Location-
- 1) An application to change the location of a pawn shop must be filed not less than 45 days prior to the anticipated date of relocation. The application must be submitted on the form prescribed in Section 360.210 of this Part, in accordance with the ~~Secretary's~~Commissioner's instructions, and the processing of the application shall be conducted in the same manner as provided in Section 360.120 of this Part. The payment of the applicable Change in Location Fee must accompany the application. At a minimum, the application shall include: the present name and address of the licensed pawnshop, the address and phone number of the proposed new location, the anticipated date of relocation, a list of the addresses of all pledgers with open pawn loans, and a sample copy of the written notice that shall be provided to the pledgers of open pawn loans. No relocation of a pawnshop may occur until approved by the ~~Secretary~~Commissioner. The ~~Secretary~~Commissioner may prohibit a relocation if it adversely affects the ability of pledgers to redeem pledged goods due to the distance between the locations. Upon approval of a change in location by the ~~Secretary~~Commissioner, the licensee shall provide notification to all pledgers with open pawn loans by signs and written notice. The written notice shall be mailed to all pledgers with open pawn loans of record, at their last known mailing address, not less

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than 15 days prior to the anticipated date of relocation. The written notice must include the name of the pawnshop as well as identify both the old and the new locations, the telephone number of the new location, and the anticipated date of relocation. At a minimum, two signs, of reasonable size and visibility, shall be posted on the outside of the pawnshop for 15 business days prior to the relocation. The signs shall include the information provided in substantially the following form:

NOTICE OF CHANGE IN LOCATION (centered, in caps and bold) (DATE)

(Name of Pawnshop) WILL BE MOVING TO (new address)

THE TELEPHONE NUMBER AT THE NEW LOCATION IS (telephone number)

THE ANTICIPATED DATE OF RELOCATION IS (date of relocation)

2) The ~~Secretary~~Commissioner may waive the notification to pledgers by mail if a determination has been made that no pledgers will be adversely affected by the relocation (e.g., the pawnshop relocates to a building within close proximity of the former location). Upon receipt of the completed form, payment of the applicable fee, and the ~~Secretary's~~Commissioner's approval, a new license shall be issued to the licensee. The licensee must surrender its former license to the ~~Secretary~~Commissioner not less than 10 business days after the relocation has occurred, unless an exemption has been granted by the ~~Secretary~~Commissioner. The Change of Location Fee is \$50.

d) Change in Name of Pawnshop. Prior to the change in the name of a pawnshop, the licensee shall provide written notice to the ~~Secretary~~Commissioner, not less than 30 days prior to the anticipated change, and pay the applicable fee, as established by the ~~Secretary~~Commissioner. Upon receipt of the written notice and applicable fee, the ~~Secretary~~Commissioner shall issue a new license. At such time, the licensee must surrender its former license to the ~~Secretary~~Commissioner. The Change in Name Fee is \$50.

e) Voluntary Surrender of License. Prior to the voluntary surrender of a license, the licensee shall provide not less than 60 days written notice to the ~~Secretary~~Commissioner. The licensee shall also provide all pledgers with open

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pawn loans, at their last known mailing address, with 60 days written notice and shall publish a notice in two consecutive issues of a local newspaper of general circulation. At a minimum, the notice shall contain: the name and address of the pawnshop, the telephone number of the pawnshop, and the anticipated date on which business operations will cease. Prior to the cancellation of any license, the licensee shall certify to the ~~Secretary~~Commissioner, in the manner prescribed by the ~~Secretary~~Commissioner, that the pawnshop has no open pawn loans and that no further pawn loans shall be made. Upon receiving the certification from the licensee, the ~~Secretary~~Commissioner shall cancel the license. At such time, the license shall be surrendered to the ~~Secretary~~Commissioner. Ceasing business shall not impair or affect the obligation of either the pawnbroker or the pledger to fulfill the terms of any preexisting contract between them.

(Source: Amended at 35 Ill. Reg. _____, effective _____)

Section 360.160 Expiration and Renewal of Licenses; Fees

- a) License Expiration. Every license shall expire on June 30 of each year. The holder of a license may request to renew such license by filing an application with the ~~Secretary~~Commissioner.
- b) License Renewal. All applications for license renewal for the succeeding license period must be mailed to the ~~Secretary~~Commissioner and be postmarked no later than June 1 of each year. An application package and related instructions will be mailed to all licensees prior to May 1 of each year at the address listed on their most recent application. All applications must be submitted on the form prescribed in Section 360.210 of this Part, in accordance with the ~~Secretary's~~Commissioner's instructions. The payment of the Renewal Fee of \$765 must accompany the application. In addition to the applicable Renewal Fee, a Late Filing Fee of \$50 per day shall be assessed for all applications postmarked after June 1 of each year, unless an exception has been granted by the ~~Secretary~~Commissioner. All applications for license renewal will be held to the standards set forth in Section 360.130 of this Part. The application process will be administered according to the rules set forth in Section 360.120 of this Part. The Renewal Fee will not be prorated.

(Source: Amended at 35 Ill. Reg. _____, effective _____)

SUBPART C: FORMS

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Section 360.200 Purpose and Scope

This Subpart sets forth the forms required to be filed by statute or rule for reports, applications, and other requests. The forms and instructions can be obtained from the [Division Office of Banks and Real Estate](#).

(Source: Amended at 35 Ill. Reg. _____, effective _____)

Section 360.210 Forms

- a) PAWNSHOP DISCLOSURE OF BUSINESS ACTIVITIES REPORT (Disclosure Report). This form is an annual report that shall be completed, by each pawnshop to disclose such information, for the preceding calendar year, as required by the [Secretary Commissioner](#) pursuant to Section 7.5 of the Pawnbroker Regulation Act [205 ILCS 510/7.5]. The [Secretary Commissioner](#), as often as the [Secretary Commissioner](#) shall deem necessary or proper, may require a pawnshop to submit a full and detailed report of its operations, including, but not limited to, the number of pawns made, the amount financed on pawn transactions, and the number and amount of pawns surrendered to law enforcement. The licensee must file the Disclosure Report with the [Secretary Commissioner](#) no later than 30 calendar days following the end of each calendar year.
- b) APPLICATION FOR LICENSE UNDER THE PAWNBROKER REGULATION ACT. This form shall be completed, according to the [Secretary's Commissioner's](#) instructions, in order to apply for a license or renewal of license as required in Section 0.05(c) of the Pawnbroker Regulation Act [205 ILCS 510/0.05(c)] and Section 360.110 and Section 360.160 of this Part.
- c) APPLICATION FOR A CHANGE IN CONTROL OR A CHANGE IN THE FORM OF OWNERSHIP OF AN ILLINOIS PAWNSHOP. This form shall be completed, according to the [Secretary's Commissioner's](#) instructions, in order to apply for the approval of a change in control or a change in the form of ownership of a pawnshop as required in Section 360.150 of this Part.
- d) APPLICATION TO CHANGE THE LOCATION OF AN ILLINOIS PAWNSHOP. This form shall be completed, according to the [Secretary's Commissioner's](#) instructions, in order to apply for a change in the

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location of a pawnshop as required in Section 360.150 of this Part.

(Source: Amended at 35 Ill. Reg. _____, effective _____)

SUBPART D: UNIFORM RULES FOR HEARINGS BEFORE THE
SECRETARY COMMISSIONER

Section 360.300 Scope

This Subpart prescribes rules of practice and procedure applicable to hearings as a result of the following administrative decisions made by the **Secretary Commissioner**:

- a) orders under Section 0.05(a)(7) of the Pawnbroker Regulation Act [205 ILCS 510/0.05(a)(7)];
- b) assessment of civil money penalties under Section 0.05(a)(6) of the Pawnbroker Regulation Act [205 ILCS 510/0.05(a)(6)];
- c) suspension of license under Section 0.05(a)(7) of the Pawnbroker Regulation Act [205 ILCS 510/0.05(a)(7)];
- d) revocation of license under Section 0.05(a)(10) of the Pawnbroker Regulation Act [205 ILCS 510/0.05(a)(10)]; and
- e) denial of an application under Section 360.120 of this Part.

(Source: Amended at 35 Ill. Reg. _____, effective _____)

Section 360.310 Procedure for Hearings before the **Secretary Commissioner**

If the respondent has specific grounds for believing the evidence upon which an administrative decision is based is not factual, then the respondent may request a hearing before the **Secretary Commissioner**. The procedure for hearings before the **Secretary Commissioner** will be conducted according to **38 Ill. Adm. Code Part 392**, of the **Division Office of Banks and Real Estate** rules entitled "**Hearings Before the Division Office of Banks of Real Estate**" (**38 Ill. Adm. Code 392**).

(Source: Amended at 35 Ill. Reg. _____, effective _____)

DEPARTMENT OF FINANCIAL AND PROFESSIONAL REGULATION

NOTICE OF PROPOSED AMENDMENTS

SUBPART E: RULES AND PROCEDURES APPLICABLE TO
PROCEEDINGS RELATING TO ORDERS**Section 360.400 Scope**

The rules and procedures in this Subpart shall apply to proceedings in connection with an order issued by the ~~Secretary~~~~Commissioner~~ pursuant to Section 0.05(a)(7) of the Pawnbroker Regulation Act [205 ILCS 510/0.05(a)(7)]. The ~~Secretary~~~~Commissioner~~ may issue an order to a licensee, principal party, employee, agent, or other entity doing business without the required license.

(Source: Amended at 35 Ill. Reg. _____, effective _____)

Section 360.410 Grounds for an Order

An order may be issued when, in the opinion of the ~~Secretary~~~~Commissioner~~, the licensee, principal party, employee, agent, or any other entity doing business without the required license is violating, has violated, or is about to violate, any law, rule, or order relating to a pawnshop or is engaged, has engaged, or is about to engage in any unethical or fraudulent activity.

(Source: Amended at 35 Ill. Reg. _____, effective _____)

Section 360.420 Effective Date of Order; Service

An order issued by the ~~Secretary~~~~Commissioner~~ is effective when served upon the licensee, agent, or other entity doing business without the required license. All orders shall remain effective and enforceable when served, except to the extent they are stayed, modified, terminated, or set aside by the ~~Secretary~~~~Commissioner~~. Service of an order shall be made upon every party of record by hand delivery or by certified mail, return receipt requested. Delivery to the United States Postal Service shall be presumed to constitute delivery to the respondent, agent, or other entity doing business without the required license.

(Source: Amended at 35 Ill. Reg. _____, effective _____)

SUBPART F: RULES AND PROCEDURES APPLICABLE TO PROCEEDINGS RELATING
TO ASSESSMENT AND COLLECTION OF CIVIL MONEY PENALTIES**Section 360.500 Scope**

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The rules and procedures of this Subpart shall apply to proceedings to assess and collect civil money penalties. The ~~Secretary~~~~Commissioner~~ has the power to assess civil money penalties pursuant to Section 0.05(a)(6) of the Pawnbroker Regulation Act [205 ILCS 510/0.05(a)(6)].

(Source: Amended at 35 Ill. Reg. _____, effective _____)

Section 360.510 Assessment of Penalties

- a) Grounds. Pursuant to Section 0.05(a)(6) of the Pawnbroker Regulation Act [205 ILCS 510/0.05(a)(6)], civil penalties may be imposed against any person for each violation of any provision of the Pawnbroker Regulation Act, any rule promulgated in accordance with the Pawnbroker Regulation Act, or any order issued by the ~~Secretary~~~~Commissioner~~ based upon the seriousness of the violation.
- b) Amount. The ~~Secretary~~~~Commissioner~~ may assess civil penalties graduated up to \$1,000.
- c) Relevant Considerations. In determining the amount of the civil penalty to be assessed, the ~~Secretary~~~~Commissioner~~ shall consider the gravity of the violation, the history of previous violations, the financial resources and good faith of the person, and any such other matters as justice may require.

(Source: Amended at 35 Ill. Reg. _____, effective _____)

Section 360.520 Effective Date of, Payment under, and Service of an Order to Pay

- a) Effective ~~Date~~~~date~~. Unless otherwise provided, civil penalties are due and payable 60 days after the order is served on the respondent.
- b) If the respondent both requests a hearing before the ~~Secretary~~~~Commissioner~~ and serves an answer, civil penalties are due and payable 60 days from the date of the ~~Secretary's~~~~Commissioner's~~ determination or after the respondent's default unless the ~~Secretary's~~~~Commissioner's~~ determination provides for a different period of payment or the civil penalty is rescinded.
- c) Civil penalties assessed pursuant to an order to pay issued upon consent are due and payable within the time specified therein.
- d) Payment. All penalties collected under this Subpart shall be paid by certified

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check or money order and be made payable to the ~~Division~~Office of Banks and Real Estate.

- e) Service. Service of a civil money penalty shall be made upon each respondent by hand delivery or by certified mail, return receipt requested. Delivery to the United States Postal Service shall be presumed to constitute delivery to the respondent.

(Source: Amended at 35 Ill. Reg. _____, effective _____)

SUBPART G: RULES AND PROCEDURES APPLICABLE TO PROCEEDINGS FOR
REVOCATION OR SUSPENSION OF LICENSE**Section 360.620 Grounds for Revocation of License**

The following are grounds for revocation of license pursuant to Section 0.05(a)(10) of the Pawnbroker Regulation Act [205 ILCS 510/0.05(a)(10)]:

- a) a licensee has been convicted of a felony in connection with the operations of a pawnshop;
- b) a licensee knowingly or recklessly violates, or has continuously violated, the Pawnbroker Regulation Act, a rule promulgated in accordance with the Pawnbroker Regulation Act, or any order of the ~~Secretary~~Commissioner;
- c) a fact or condition exists that, if it had existed or had been known at the time of the original application, would have justified license refusal; or
- d) the licensee knowingly submits materially false or misleading documents with the intent to deceive the ~~Secretary~~Commissioner or any other party.

(Source: Amended at 35 Ill. Reg. _____, effective _____)

Section 360.630 Notice to Customers

If the ~~Secretary~~Commissioner enters an order revoking the license of a pawnshop, the ~~Secretary~~Commissioner shall, on the day the order becomes final, or such other day as the order prescribes, mail a written notification of revocation of license to all persons who have things in pledge at the most recent address listed on the pawn ticket. The ~~Secretary~~Commissioner shall

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also publish the notification in two consecutive issues of a local newspaper of general circulation. The ~~Secretary~~~~Commissioner~~ shall be reimbursed by the licensee for all expenses incurred in connection with the notification. The Notification of License Revocation shall include the information provided in substantially the following form:

NOTIFICATION OF LICENSE REVOCATION (centered, in caps and bold)
(DATE)

1. Pursuant to Section 0.05(a)(10) of the Pawnbroker Regulation Act [205 ILCS 510/0.05(a)(10)], the license of (name of pawnshop) has been revoked as of (the date the order becomes final).
2. (Name and address of pawnshop) is no longer permitted to engage in the business of receiving property in pledge or as security for money or other thing advanced.
3. The revocation of license shall not impair or affect the obligation of either the pawnbroker or the pledger to fulfill the terms of any preexisting memorandum, contract, or note.
4. If you have a current business transaction with (name and address of pawnshop), you should contact (address and phone number of ~~Secretary's~~~~Commissioner's~~ agent) within 30 business days to make arrangements for the disposition of any business transaction.
5. The grounds for the license revocation are (list all grounds as stated in the order).

(Source: Amended at 35 Ill. Reg. _____, effective _____)

Section 360.640 Effective Date of Revocation or Suspension; Service

A revocation or suspension of license issued by the ~~Secretary~~~~Commissioner~~ is effective when served upon the respondent unless another date is specified. A suspension of license shall not exceed 30 days. All revocations or suspensions shall remain effective and enforceable, except to the extent they are stayed, modified, terminated, or set aside by the ~~Secretary~~~~Commissioner~~. Service of the revocation or suspension of license shall be made upon every respondent by hand delivery or by certified mail, return receipt requested. Delivery to the United States Postal Service shall be presumed to constitute delivery to the respondent.

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(Source: Amended at 35 Ill. Reg. _____, effective _____)

SUBPART H: FEE SCHEDULE FOR UNREGISTERED BUYERS

Section 360.700 Definitions

For purposes of this Subpart:

"Temporary Buying Location" shall have the same meaning ascribed to it in Section 15 of the Pawnbroker Regulation Act.

"Unregistered Buyer" shall have the same meaning ascribed to it in Section 15 of the Pawnbroker Regulation Act.

(Source: Added at 35 Ill. Reg. _____, effective _____)

Section 361.710 Temporary Buying Location Registration Fees

In all counties of Illinois, prior to commencing business, each unregistered buyer shall pay a registration fee of \$100 to the Sheriff of the county in which it seeks to conduct business. The conduct of business at a single temporary buying location for consecutive days shall cause a registration fee of \$100 to become due. Each new period of consecutive days, even if only separated by a single day, shall cause a registration fee of \$100 to become due.

(Source: Added at 35 Ill. Reg. _____, effective _____)

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- 1) Heading of the Part: Nitrogen Oxides Emissions
- 2) Code citation: 35 Ill. Adm. Code 217
- 3)

<u>Section Number:</u>	<u>Proposed Action:</u>
217.152	Amend
- 4) Statutory authority: Implementing Section 10 and authorized by Sections 27 and 28 of the Environmental Protection Act [415 ILCS 5/10, 27, 28]
- 5) A complete description of the subjects and issues involved: Saint-Gobain Containers, Inc. (SGCI) owns and operates a glass manufacturing plant, including three glass melting furnaces, at 13850 Cottage Grove Avenue in Dolton. The Board's air pollution regulations at 35 Ill. Adm. Code 217.204 require specified glass melting furnaces to meet a nitrogen oxides (NOx) emissions limitation of 5.0 lb/ton of glass produced by January 1, 2012. Section 217.152(b) includes an alternative compliance date of December 31, 2014 for units required to meet NOx emissions limitations included in a legally enforceable order on or before December 31, 2009, where such emissions limitations are less than 30 percent of the limit of 5.0 lb/ton of glass produced.

Because of an agreement SGCI was negotiating with the U.S. Attorney and other entities at the time the Board promulgated the applicable NOx limitations, SGCI sought the alternative compliance date. Although the participants in the Board's rulemaking process expected a qualifying agreement by the December 31, 2009 deadline in Section 217.152(b), the federal court did not enter a qualifying Consent Decree until May 7, 2010. SGCI states that, in order for its Dolton plant to qualify for the December 31, 2014 compliance date, it proposes to change the deadline for obtaining a legally enforceable order to May 7, 2010.

For a more detailed description of this rulemaking, see the Board's December 2, 2010, first-notice opinion and order: Proposed Site-Specific Rule Amendment Applicable to Saint-Gobain Containers, Inc. at 35 Ill. Adm. Code 217.152(b). (R11-17)

- 6) Published studies or reports, and sources of underlying data, used to compose this rulemaking: SGCI states in its rulemaking petition that "no published study or research report was used in developing this rule amendment."
- 7) Will this rulemaking replace any emergency rulemaking currently in effect? No

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- 8) Does this rulemaking contain an automatic repeal date? No
- 9) Does this rulemaking contain incorporations by reference? No
- 10) Are there any other proposed rulemakings pending on this Part? Yes

<u>Section Number:</u>	<u>Proposed Action:</u>	<u>Illinois Register Citation:</u>
217.388	Amend	34 Ill. Reg. 17513; November 19, 2010

- 11) Statement of statewide policy objective: This proposed rulemaking does not create or enlarge a State mandate, as defined in Section 3(b) of the State Mandates Act [30 ILCS 805/3(b) (2008)].
- 12) Time, place and manner in which interested persons may comment on this proposed rulemaking: The Board will accept written public comment on this proposal for a period of 45 days after the date of this publication. Comments should reference docket R11-17 and be addressed to:

Clerk's Office
Illinois Pollution Control Board
James R. Thompson Center, Suite 11-500
100 W. Randolph St.
Chicago, IL 60601

Address all questions to Timothy Fox at 312-814-6085.

Interested persons may obtain copies of the Board's opinion and order by downloading them from the Board's Web site at www.ipcb.state.il.us or by calling the Clerk's office at 312-814-3620.

- 13) Initial regulatory flexibility analysis:
- A) Types of small businesses, small municipalities, and not-for-profit corporations affected: In its rulemaking petition, SGCI refers to the Board's adoption of standards applicable to glass melting furnaces and states that "[a]ll parties understood that the alternative [compliance date] provision at 35 Ill. Adm. Code § 217.152(b) was intended for SGCI. . . ." Accordingly, the proposal is not expected to affect any other source and is not expected to affect a small business, small municipality, or not-for-profit corporations.

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- B) Reporting, bookkeeping or other procedures required for compliance: As SGCI's proposal would amend only the deadline for obtaining a court in order to qualify for an alternate compliance date, the proposal is not expected to require new reporting, bookkeeping or other procedures for compliance.
- C) Types of professional skills necessary for compliance: No professional skills beyond those currently required by the existing state and federal air pollution control requirements are expected to be necessary.
- 14) Regulatory Agenda on which this rulemaking was summarized: As noted above under Section 5, SCGI originally sought the alternative compliance date in Section 217.152(b) because of an agreement that it was negotiating with other entities at the time the Board promulgated the applicable NOx limitations. Although the participants in the Board's rulemaking process expected a qualifying agreement by the December 31, 2009 deadline, the federal court did not enter a qualifying Consent Decree until May 7, 2010. Because of that unexpected delay of approximately four months, and because the Board did not receive SGCI's petition until November 24, 2010, this rulemaking was not summarized in either of the Board's two most recent regulatory agendas.

The full text of the Proposed Amendment begins on the next page:

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TITLE 35: ENVIRONMENTAL PROTECTION
SUBTITLE B: AIR POLLUTION
CHAPTER I: POLLUTION CONTROL BOARD
SUBCHAPTER c: EMISSION STANDARDS AND LIMITATIONS
FOR STATIONARY SOURCES

PART 217
NITROGEN OXIDES EMISSIONS

SUBPART A: GENERAL PROVISIONS

- Section
- 217.100 Scope and Organization
- 217.101 Measurement Methods
- 217.102 Abbreviations and Units
- 217.103 Definitions
- 217.104 Incorporations by Reference

SUBPART B: NEW FUEL COMBUSTION EMISSION SOURCES

- Section
- 217.121 New Emission Sources (Repealed)

SUBPART C: EXISTING FUEL COMBUSTION EMISSION UNITS

- Section
- 217.141 Existing Emission Units in Major Metropolitan Areas

SUBPART D: NO_x GENERAL REQUIREMENTS

- Section
- 217.150 Applicability
- 217.152 Compliance Date
- 217.154 Performance Testing
- 217.155 Initial Compliance Certification
- 217.156 Recordkeeping and Reporting
- 217.157 Testing and Monitoring
- 217.158 Emissions Averaging Plans

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENT

SUBPART E: INDUSTRIAL BOILERS

Section

- 217.160 Applicability
- 217.162 Exemptions
- 217.164 Emissions Limitations
- 217.165 Combination of Fuels
- 217.166 Methods and Procedures for Combustion Tuning

SUBPART F: PROCESS HEATERS

Section

- 217.180 Applicability
- 217.182 Exemptions
- 217.184 Emissions Limitations
- 217.185 Combination of Fuels
- 217.186 Methods and Procedures for Combustion Tuning

SUBPART G: GLASS MELTING FURNANCES

Section

- 217.200 Applicability
- 217.202 Exemptions
- 217.204 Emissions Limitations

SUBPART H: CEMENT AND LIME KILNS

Section

- 217.220 Applicability
- 217.222 Exemptions
- 217.224 Emissions Limitations

SUBPART I: IRON AND STEEL AND ALUMINUM MANUFACTURING

Section

- 217.240 Applicability
- 217.242 Exemptions
- 217.244 Emissions Limitations

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SUBPART K: PROCESS EMISSION SOURCES

Section
217.301 Industrial Processes

SUBPART M: ELECTRICAL GENERATING UNITS

Section
217.340 Applicability
217.342 Exemptions
217.344 Emissions Limitations
217.345 Combination of Fuels

SUBPART O: CHEMICAL MANUFACTURE

Section
217.381 Nitric Acid Manufacturing Processes

SUBPART Q: STATIONARY RECIPROCATING
INTERNAL COMBUSTION ENGINES AND TURBINES

Section
217.386 Applicability
217.388 Control and Maintenance Requirements
217.390 Emissions Averaging Plans
217.392 Compliance
217.394 Testing and Monitoring
217.396 Recordkeeping and Reporting

SUBPART T: CEMENT KILNS

Section
217.400 Applicability
217.402 Control Requirements
217.404 Testing
217.406 Monitoring
217.408 Reporting
217.410 Recordkeeping

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SUBPART U: NO_x CONTROL AND TRADING PROGRAM FOR
SPECIFIED NO_x GENERATING UNITS

Section	
217.450	Purpose
217.452	Severability
217.454	Applicability
217.456	Compliance Requirements
217.458	Permitting Requirements
217.460	Subpart U NO _x Trading Budget
217.462	Methodology for Obtaining NO _x Allocations
217.464	Methodology for Determining NO _x Allowances from the New Source Set-Aside
217.466	NO _x Allocations Procedure for Subpart U Budget Units
217.468	New Source Set-Asides for "New" Budget Units
217.470	Early Reduction Credits (ERCs) for Budget Units
217.472	Low-Emitter Requirements
217.474	Opt-In Units
217.476	Opt-In Process
217.478	Opt-In Budget Units: Withdrawal from NO _x Trading Program
217.480	Opt-In Units: Change in Regulatory Status
217.482	Allowance Allocations to Opt-In Budget Units

SUBPART V: ELECTRIC POWER GENERATION

Section	
217.521	Lake of Egypt Power Plant
217.700	Purpose
217.702	Severability
217.704	Applicability
217.706	Emission Limitations
217.708	NO _x Averaging
217.710	Monitoring
217.712	Reporting and Recordkeeping

SUBPART W: NO_x TRADING PROGRAM FOR
ELECTRICAL GENERATING UNITS

Section	
217.750	Purpose
217.751	Sunset Provisions

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217.752	Severability
217.754	Applicability
217.756	Compliance Requirements
217.758	Permitting Requirements
217.760	NO _x Trading Budget
217.762	Methodology for Calculating NO _x Allocations for Budget Electrical Generating Units (EGUs)
217.764	NO _x Allocations for Budget EGUs
217.768	New Source Set-Asides for "New" Budget EGUs
217.770	Early Reduction Credits for Budget EGUs
217.774	Opt-In Units
217.776	Opt-In Process
217.778	Budget Opt-In Units: Withdrawal from NO _x Trading Program
217.780	Opt-In Units: Change in Regulatory Status
217.782	Allowance Allocations to Budget Opt-In Units

SUBPART X: VOLUNTARY NO_x EMISSIONS REDUCTION PROGRAM

Section	Purpose
217.800	Purpose
217.805	Emission Unit Eligibility
217.810	Participation Requirements
217.815	NO _x Emission Reductions and the Subpart X NO _x Trading Budget
217.820	Baseline Emissions Determination
217.825	Calculation of Creditable NO _x Emission Reductions
217.830	Limitations on NO _x Emission Reductions
217.835	NO _x Emission Reduction Proposal
217.840	Agency Action
217.845	Emissions Determination Methods
217.850	Emissions Monitoring
217.855	Reporting
217.860	Recordkeeping
217.865	Enforcement
217.APPENDIX A	Rule into Section Table
217.APPENDIX B	Section into Rule Table
217.APPENDIX C	Compliance Dates
217.APPENDIX D	Non-Electrical Generating Units
217.APPENDIX E	Large Non-Electrical Generating Units

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- 217.APPENDIX F Allowances for Electrical Generating Units
217.APPENDIX G Existing Reciprocating Internal Combustion Engines Affected by the NO_x SIP Call
217.APPENDIX H Compliance Dates for Certain Emissions Units at Petroleum Refineries

AUTHORITY: Implementing Sections 10 and authorized by Sections 27 and 28 of the Environmental Protection Act [415 ILCS 5/10, 27 and 28 (2008)].

SOURCE: Adopted as Chapter 2: Air Pollution, Rule 207: Nitrogen Oxides Emissions, R71-23, 4 PCB 191, April 13, 1972, filed and effective April 14, 1972; amended at 2 Ill. Reg. 17, p. 101, effective April 13, 1978; codified at 7 Ill. Reg. 13609; amended in R01-9 at 25 Ill. Reg. 128, effective December 26, 2000; amended in R01-11 at 25 Ill. Reg. 4597, effective March 15, 2001; amended in R01-16 and R01-17 at 25 Ill. Reg. 5914, effective April 17, 2001; amended in R07-18 at 31 Ill. Reg. 14271, effective September 25, 2007; amended in R07-19 at 33 Ill. Reg. 11999, effective August 6, 2009; amended in R08-19 at 33 Ill. Reg. 13345, effective August 31, 2009; amended in R09-20 at 33 Ill. Reg. 15754, effective November 2, 2009; amended in R11-17 at 35 Ill. Reg. _____, effective _____.

SUBPART D: NO_x GENERAL REQUIREMENTS**Section 217.152 Compliance Date**

- a) Compliance with the requirements of Subparts E, F, G, H, I and M by an owner or operator of an emission unit that is subject to any of those Subparts is required beginning January 1, 2012.
- b) Notwithstanding subsection (a) of this Section, compliance with the requirements of Subpart G of this Part by an owner or operator of an emission unit subject to Subpart G of this Part shall be extended until December 31, 2014, if the unit ~~issuch units are~~ required to meet emissions limitations for NO_x, as measured using a continuous emissions monitoring system, and included within a legally enforceable order on or before ~~May 7, 2010~~December 31, 2009, whereby ~~thesuch~~ emissions limitations are less than 30 percent of the emissions limitations set forth under Section 217.204.
- c) Notwithstanding subsection (a) of this Section, the owner or operator of emission units subject to Subpart E or F of this Part and located at a petroleum refinery must comply with the requirements of this Subpart and Subpart E or F of this Part, as applicable, for those emission units beginning January 1, 2012, except that the

POLLUTION CONTROL BOARD

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owner or operator of emission units listed in Appendix H must comply with the requirements of this Subpart, including the option of demonstrating compliance with the applicable Subpart through an emissions averaging plan under Section 217.158 and Subpart E or F of this Part, as applicable, for the listed emission units beginning on the dates set forth in Appendix H. With Agency approval, the owner or operator of emission units listed in Appendix H may elect to comply with the requirements of this Subpart and Subpart E or F of this Part, as applicable, by reducing the emissions of emission units other than those listed in Appendix H, provided that the emissions limitations of such other emission units are equal to or more stringent than the applicable emissions limitations set forth in Subpart E or F of this Part, as applicable, by the dates set forth in Appendix H.

(Source: Amended at 35 Ill. Reg. _____, effective _____)

SECRETARY OF STATE

NOTICE OF PROPOSED AMENDMENT

- 1) Heading of the Part: School Bus Driver Permit
- 2) Code Citation: 92 Ill. Adm. Code 1035
- 3) Section Number: 1035.30 Proposed Action: Amendment
- 4) Statutory Authority: 625 ILCS 5/6-2-104; 625 ILCS 5/6-106.1(a)(8)
- 5) Complete Description of the Subjects and Issues Involved: This rulemaking clarifies the period during which a school bus driver permit holder must complete refresher training.
- 6) Published studies or reports, and sources of underlying data, used to compose this rulemaking: None
- 7) Will this rulemaking replace any emergency amendments currently in effect? No
- 8) Does this rulemaking contain an automatic repeal date? No
- 9) Does this rulemaking contain incorporations by reference? No
- 10) Are there any other proposed rulemakings pending on this Part? No
- 11) Statement of Statewide Policy Objective: The proposed amendments do not require expenditures by units of local government.
- 12) Time, Place and Manner in which interested persons may comment on this proposed rulemaking: Written comments may be submitted within 45 days to:

Brenda Glahn
Legal Advisor
298 Howlett Building
Springfield, IL 62756

217-785-3094
bglahn@ilsos.net

SECRETARY OF STATE

NOTICE OF PROPOSED AMENDMENT

The Department will consider all written comments it receives during the first notice period as required by Section 5-40 of the Illinois Administrative Procedure Act [5 ILCS 100/5-40].

- 13) Initial Regulatory Flexibility Analysis:
 - A) Types of small businesses, small municipalities and not-for-profit corporations affected: None
 - B) Reporting, bookkeeping or other procedures required for compliance: A school district or school bus company must keep records of when their employees completed refresher training.
 - C) Types of professional skills necessary for compliance: None
- 14) Regulatory Agenda on which this rulemaking was summarized: This rulemaking was not included on either of the most recent regulatory agendas because the Department did not anticipate this rulemaking at the time the agendas were filed.

The full text of the Proposed Amendment begins on the next page:

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NOTICE OF PROPOSED AMENDMENT

TITLE 92: TRANSPORTATION
CHAPTER II: SECRETARY OF STATE

PART 1035
SCHOOL BUS DRIVER PERMIT

Section

1035.10 Definitions

1035.15 Requirements of Applicants for a School Bus Driver Permit

1035.20 Annual Medical Examination and Certificate

1035.25 Permit Application Process

1035.30 Training

1035.32 Random Drug Testing for Alcohol and Controlled Substances

1035.35 Denial, Cancellation, or Suspension of a School Bus Driver Permit

1035.40 Notice

1035.45 Employer Responsibility

1035.46 Military Deferrals

1035.50 Hearings

AUTHORITY: Implementing Section 6-106.1 and authorized by Section 6-521 of the Illinois Vehicle Code [625 ILCS 5/6-521].

SOURCE: Adopted at 19 Ill. Reg. 10716, effective July 11, 1995; amended at 24 Ill. Reg. 1269, effective January 10, 2000; amended at 24 Ill. Reg. 12092, effective July 31, 2000; amended at 26 Ill. Reg. 12045, effective July 22, 2002; amended at 33 Ill. Reg. 17093, effective December 1, 2009; amended at 34 Ill. Reg. 7750, effective May 20, 2010; amended at 34 Ill. Reg. 19082, effective November 22, 2010; amended at 35 Ill. Reg. _____, effective _____.

Section 1035.30 Training

- _____ a) [The initial course and annual refresher training courses are required for each school bus driver permit holder and shall be:](#)
 - _____ 1) [Approved by the Secretary of State and the agency or organization conducting the course;](#)
 - _____ 2) [Taught by an instructor certified by the Illinois State Board of Education; and](#)
 - _____

SECRETARY OF STATE

NOTICE OF PROPOSED AMENDMENT

3) A minimum of two hours in length, part of which must include first aid training.

b) The date of the annual refresher training shall be computed as follows:

1) The first refresher training following initial training must be completed within one year (365 days) from the date of initial training. The date of the first refresher training will be known as the refresher date.

2) Subsequent refresher training must be done by or up to 60 days prior to the refresher date. In the event the refresher training is completed up to 60 days prior to the refresher date, the refresher date will not change. In the event refresher training must be completed more than 60 days prior to the refresher date, the date the driver completes the refresher training will become the new refresher date.

~~The initial course and annual refresher training courses are required for each school bus driver permit holder and shall consist of the following minimum requirements:~~

- ~~a) The Secretary of State shall be responsible for approving the refresher courses and the agency or organization conducting the course;~~
- ~~b) Initial and refresher training must be taught by an instructor certified by the Illinois State Board of Education;~~
- ~~c) Refresher training courses shall be a minimum of 2 hours in length, part of which must include first aid training.~~

(Source: Amended at 35 Ill. Reg. _____, effective _____)

DEPARTMENT OF NATURAL RESOURCES

NOTICE OF ADOPTED AMENDMENT

- 1) Heading of the Part: Partners for Conservation – Ecosystems Program
- 2) Code Citation: 17 Ill. Adm. Code 1523
- 3) Section Number: 1523.90 Adopted Action: Amendment
- 4) Statutory Authority: Implementing and authorized by Section 6z-32 of the State Finance Act [30 ILCS 105/6z-32]
- 5) Effective Date of Amendment: December 8, 2010
- 6) Does this rulemaking contain an automatic repeal date? No
- 7) Does this rulemaking contain incorporations by reference? No
- 8) A copy of the adopted amendment, including any material incorporated by reference, is on file in the Department of Natural Resources' principal office and is available for public inspection.
- 9) Notice of Proposal Published in Illinois Register: August 27, 2010; 34 Ill. Reg. 12321
- 10) Has JCAR issued a Statement of Objection to this rulemaking? No
- 11) Differences between proposal and final version:

The title of the Part was changed from "Conservation 2000 – Ecosystems Program" to "Partners for Conservation – Ecosystems Program".

In the Authority Note, Sections 5.411 and 5.412, which are no longer applicable, were removed, and "Sections" was changed to "Section".

An application deadline of "December 15" was added following "Section 1523.170" in the first sentence.

"The Department shall announce the availability of funds, application procedures and the application deadline using newspapers, Internet and other means of publication." was deleted.

DEPARTMENT OF NATURAL RESOURCES

NOTICE OF ADOPTED AMENDMENT

Language that was stricken is reinstated in the third sentence to specify that if the grant application is submitted online, it is due by 5:00 p.m. on the due date. Also, the due date is specified as December 15th rather than the following February.

Language that was stricken in the fourth sentence is reinstated: "Project applications must be submitted either online at the Department's Ecosystem Program website or typed on official forms to be considered for funding."

The Department's website address was added.

"Conservation 2000 Administrator" was changed to "Partners for Conservation Administrator".

- 12) Have all the changes agreed upon by the agency and JCAR been made as indicated in the agreements issued by JCAR? Yes
- 13) Will this rulemaking replace any emergency rulemaking currently in effect? No
- 14) Are there any amendments pending on this Part? No
- 15) Summary and Purpose of Rulemaking: This amendment updates the name of the Part, removes non-applicable statutory citations and adds language specifying how the Department will announce the availability of grant funds, application procedures and application deadline.
- 16) Information and questions regarding this adopted amendment shall be directed to:

George Sisk, Legal Counsel
Department of Natural Resources
One Natural Resources Way
Springfield IL 62702-1271

217/782-1809

The full text of the Adopted Amendment begins on the next page:

DEPARTMENT OF NATURAL RESOURCES

NOTICE OF ADOPTED AMENDMENT

TITLE 17: CONSERVATION
CHAPTER I: DEPARTMENT OF NATURAL RESOURCES
SUBCHAPTER d: FORESTRY

PART 1523

PARTNERS FOR CONSERVATION ~~2000~~ – ECOSYSTEMS PROGRAM

Section

1523.10	Program Objective
1523.20	Definitions
1523.30	Ecosystem Partnership Designation
1523.40	Ecosystem Partnership Bylaws
1523.50	Evaluation of Ecosystem Partnership
1523.60	Ecosystem Vision Plan Grants
1523.70	Ecosystem Project Grants
1523.80	Ecosystem Project Grant Eligibility
1523.90	Ecosystem Project Grant Application Process
1523.100	Ecosystem Project Grant Application
1523.110	Review of Ecosystem Project Grant Applications
1523.120	Selection and Notification of Ecosystem Project Grant Awards
1523.130	Ecosystem Partnership Support Grants
1523.140	Ecosystem Vision Plan, Project, and Support Grant Execution and Reimbursement
1523.150	Ecosystem Vision Plan, Project, and Support Grant Compliance Requirements
1523.160	Natural Resources Cost Share
1523.170	Program Information/Contact
1523.180	Program Information/Contact (Repealed)

AUTHORITY: Implementing and authorized by Section 6z-32 of the State Finance Act [30 ILCS 105/6z-32].

SOURCE: Adopted at 23 Ill. Reg. 11178, effective August 26, 1999; amended at 27 Ill. Reg. 1145, effective January 9, 2003; amended at 34 Ill. Reg. 19844, effective December 8, 2010.

Section 1523.90 Ecosystem Project Grant Application Process

~~Pending the availability of funding, applications~~ Applications for an Ecosystem Project Grant must be submitted to the Department's Ecosystems Division in Springfield, Illinois as listed in Section 1523.170 ~~by December 15, via either the Internet or mailed.~~ The If the grant application

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~~is mailed, the~~ grant application must be typed and submitted electronically via Internet by December 15 or, if mailed, postmarked on or before December 15. February 1 of each year preceding the fiscal year during which the applicant is requesting funding. If the grant application is submitted online, the grant application is due by 5:00 p.m. on December 15, the last business day in February of the year preceding the fiscal year during which the applicant is requesting funding (e.g., by February 28, 2003 for Fiscal Year 2004 funding). Project applications must be submitted either online at the Department's Ecosystems Program website (<http://www.dnr.illinois.gov>) or typed on official forms to be considered for funding. ~~Forms~~ Grant application forms may be downloaded from the Department's Ecosystems Program website or requested from the Partners for Conservation~~Conservation 2000~~ Administrator at the contact address, telephone number or email address listed in Section 1523.170. Applications will not be accepted by facsimile machine. The Department encourages applications be submitted over the Internet.

(Source: Amended at 34 Ill. Reg. 19844, effective December 8, 2010)

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- 1) Heading of the Part: Primary Drinking Water Standards
- 2) Code citation: 35 Ill. Adm. Code 611
- 3)

<u>Section Numbers</u> :	<u>Adopted Action</u> :
611.101	Amended
611.102	Amended
611.105	Amended
611.111	Amended
611.112	Amended
611.381	Amended
611.382	Amended
611.526	Amended
611.531	Amended
611.611	Amended
611.612	Amended
611.645	Amended
611.680	Amended
611.720	Amended
611.802	Amended
611.925	Amended
611.971	Amended
611.1004	Amended
- 4) Statutory Authority: 415 ILCS 5/7.2, 17.5, and 27.
- 5) Effective date of amendments: December 7, 2010
- 6) Does this rulemaking contain an automatic repeal date? No
- 7) Do these amendments contain incorporations by reference? Yes. Section 611.102 is a centralized listing of all documents incorporated by reference for the purposes of 35 Ill. Adm. Code 611. Many of the amendments involve updated analytical methods that USEPA has approved for use in determining compliance with the National Primary Drinking Water Standards. All of the methods updates involve adding or revising incorporations by reference. In addition, the Board has found a limited number of corrections necessary to the existing incorporations by reference.
- 8) Statement of availability: The adopted amendments, a copy of the Board's opinion and

POLLUTION CONTROL BOARD

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order adopted December 2, 2010 in docket R10-1/R10-17/R11-6 (consolidated), and all materials incorporated by reference are on file at the Board's principal office and are available for public inspection and copying.

- 9) Notice of proposal published in the Illinois Register: October 8, 2010; 34 Ill. Reg. 14841
- 10) Has JCAR issued a statement of objection to these amendments? No. Section 17.5 of the Environmental Protection Act [415 ILCS 5/17.5] provides that Section 5-35 of the Administrative Procedure Act [5 ILCS 100/5-35] does not apply to this rulemaking. Because this rulemaking is not subject to Section 5-35 of the APA, it is not subject to First Notice or to Second Notice review by the Joint Committee on Administrative Rules (JCAR).
- 11) Differences between the proposal and the final version: A table that appears in the Board's opinion and order of December 2, 2010 in docket R10-1/R10-17/R11-6 (consolidated) summarizes the differences between the amendments adopted in that order and those proposed by the Board in an opinion and order dated August 5, 2010, in docket R10-1/R10-17/R11-6 (consolidated). Many of the differences are explained in greater detail in the Board's December 2, 2010 opinion and order adopting the amendments.

The differences are limited to (1) the removal of provisions of proposed new 35 Ill. Adm. Code 611 Subpart AA, pertaining to the federal Aircraft Drinking Water Rule (ADWR), from the text; (2) minor clarifications and corrections throughout the text; and (3) the inadvertent omission of the proposed correction to Appendix F from the Board's December 2, 2010 order adopting these amendments.

USEPA and the Illinois EPA both commented on the proposed amendments to the effect that USEPA will itself implement the ADWR without involvement of the states. For this reason, the Board has chosen to not adopt the new Subpart AA ADWR provisions included in the August 5, 2010 proposal.

The minor clarifications and corrections are intended to have no substantive effect. The intent is to add clarity to the rules without deviation from the substance of the federal amendments on which this proceeding is based.

The omission of the minor correction that the Board proposed for Appendix F was an error. The Appendix was inadvertently removed from the text of the Board's December 2, 2010 order adopting the amendments together with the text of proposed new Subpart AA. The Board will defer the minor correction to Appendix F until a future rulemaking

POLLUTION CONTROL BOARD

NOTICE OF ADOPTED AMENDMENTS

proposal.

- 12) Have all the changes agreed upon by the Board and JCAR been made as indicated in the agreements issued by JCAR? Section 17.5 of the Environmental Protection Act [415 ILCS 5/17.5] provides that Section 5-35 of the Administrative Procedure Act [5 ILCS 100/5-35] does not apply to this rulemaking. Because this rulemaking is not subject to Section 5-35 of the APA, it is not subject to First Notice or to Second Notice review by JCAR.

Since the Notices of Proposed Amendments appeared in the October 8, 2010 issue of the *Illinois Register*, the Board received a number of suggestions for revisions from JCAR. The Board evaluated each suggestion and incorporated a number of changes into the text as a result, as detailed in the opinion and order of December 2, 2010 in docket R10-1/R10-17/R11-6 (consolidated), as indicated in item 11 above. See the December 2, 2010 opinion and order in docket R10-1/R10-17/R11-6 (consolidated) for additional details on the JCAR suggestions and the Board actions with regard to each.

- 13) Will these amendments replace any emergency amendments currently in effect? No
- 14) Are there any other amendments pending on this Part? No
- 15) Summary and purpose of amendments: The following briefly describes the subjects and issues involved in the docket R10-1/R10-17/R11-6 (consolidated) rulemaking of which the amendments to Part 611 are a single segment. Also affected is 35 Ill. Adm. Code 611, which is covered by a separate notice in this issue of the *Illinois Register*. A comprehensive description is contained in the Board's opinion and order of December 2, 2010, adopting amendments in docket R10-1/R10-17/R11-6 (consolidated), which opinion and order is available from the address below.

This proceeding updates the Illinois Safe Drinking Water Act (SDWA) rules to correspond with amendments adopted by the United States Environmental Protection Agency (USEPA) that appeared in the *Federal Register* during a single update period. The docket and time period that is involved in this proceeding is the following:

R10-1	Federal SDWA amendments that occurred during the period January 1, 2009 through June 30, 2009.
R10-17	Federal SDWA amendments that occurred during the period July 1, 2009 through December 31, 2009.
R11-6	Federal SDWA amendments that occurred during the period

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January 1, 2010 through June 30, 2010.
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The R10-1/R10-17/R11-6 docket amends rules in Part 611. The amendments to the various Parts are inter-related. The following table briefly summarizes the federal actions in the update period:

June 29, 2009 (74 Fed. Reg. 30953)	USEPA adopted a minor correction to the Stage 2 Disinfection and Disinfectant By-Products Rule (Stage 2 DDBPR) and made a minor editorial change in the drinking water analytical methods.
August 3, 2009 (74 Fed. Reg. 38348)	USEPA used its authority to use a summary procedure to approve alternative testing methods for use in demonstrating compliance with the drinking water standards.
October 19, 2009 (74 Fed. Reg. 53590)	USEPA adopted National Primary Drinking Water Regulations applicable to aircraft public water systems. (The Board did not adopt amendments based on the federal Aircraft Drinking Water Rule in response to comments from the Illinois EPA and USEPA, as is explained in the Board's December 2, 2010 opinion.)
November 10, 2009 (74 Fed. Reg. 57908)	USEPA used its authority to employ a summary procedure to approve alternative testing methods for use in demonstrating compliance with the drinking water standards.
December 2, 2009 (74 Fed. Reg. 63069)	USEPA made a minor correction in its November 10, 2009 summary approval of drinking water analytical methods.
June 8, 2010 (75 Fed. Reg. 32295)	USEPA used its authority to employ a summary procedure to approve alternative testing methods for use in demonstrating compliance with the drinking water standards.

Tables appear in the Board's opinion and order of December 2, 2010 in docket R10-1/R10-17/R11-6 (consolidated) that list numerous corrections and amendments that are not based on current federal amendments. The tables contain deviations from the literal text of the federal amendments underlying these amendments, as well as corrections and clarifications that the Board made in the base text involved. Persons interested in the details of those corrections and amendments should refer to the December 2, 2010 opinion and order in docket R10-1/R10-17/R11-6 (consolidated).

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Section 17.5 of the Environmental Protection Act [415 ILCS 5/17.5] provides that Section 5-35 of the Administrative Procedure Act [5 ILCS 100/5-35] does not apply to this rulemaking. Because this rulemaking is not subject to Section 5-35 of the APA, it is not subject to First Notice or to Second Notice review by the Joint Committee on Administrative Rules (JCAR).

- 16) Information and questions regarding these adopted amendments shall be adopted to: Please reference consolidated docket R10-1/R10-17/R11-6 (consolidated) and direct inquiries to the following person:

Michael J. McCambridge
Staff Attorney
Illinois Pollution Control Board
100 W. Randolph 11-500
Chicago, IL 60601

312/814-6924

Request copies of the Board's opinion and order of December 2, 2010 at 312-814-3620. Alternatively, you may obtain a copy of the Board's opinion and order from the Internet at <http://www.ipcb.state.il.us>.

The full text of the Adopted Amendments begins on the next page:

POLLUTION CONTROL BOARD

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TITLE 35: ENVIRONMENTAL PROTECTION
SUBTITLE F: PUBLIC WATER SUPPLIES
CHAPTER I: POLLUTION CONTROL BOARDPART 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
611.105	Electronic Reporting
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
611.161	Case-by-Case Reduced Subpart Y Monitoring for Wholesale and Consecutive Systems

SUBPART B: FILTRATION AND DISINFECTION

Section	
611.201	Requiring a Demonstration
611.202	Procedures for Agency Determinations

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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	State-Only Maximum Contaminant Levels (MCLs) for Organic Chemical Contaminants

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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

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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

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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

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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 S: GROUNDWATER RULE

Section	
611.800	General Requirements and Applicability
611.801	Sanitary Surveys for GWS Suppliers
611.802	Groundwater Source Microbial Monitoring and Analytical Methods
611.803	Treatment Technique Requirements for GWS Suppliers
611.804	Treatment Technique Violations for GWS Suppliers
611.805	Reporting and Recordkeeping for GWS Suppliers

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

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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
611.911	Special Notice for Cryptosporidium

SUBPART W: INITIAL DISTRIBUTION SYSTEM EVALUATIONS

Section	
611.920	General Requirements
611.921	Standard Monitoring
611.922	System-Specific Studies
611.923	40/30 Certification
611.924	Very Small System Waivers
611.925	Subpart Y Compliance Monitoring Location Recommendations

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

Section	
611.950	General Requirements
611.951	Finished Water Reservoirs

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- 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

SUBPART Y: STAGE 2 DISINFECTION BYPRODUCTS REQUIREMENTS

Section

- 611.970 General Requirements
- 611.971 Routine Monitoring
- 611.972 Subpart Y Monitoring Plan
- 611.973 Reduced Monitoring
- 611.974 Additional Requirements for Consecutive Systems
- 611.975 Conditions Requiring Increased Monitoring
- 611.976 Operational Evaluation Levels
- 611.977 Requirements for Remaining on Reduced TTHM and HAA5 Monitoring Based on Subpart I Results
- 611.978 Requirements for Remaining on Increased TTHM and HAA5 Monitoring Based on Subpart I Results
- 611.979 Reporting and Recordkeeping Requirements

SUBPART Z: ENHANCED TREATMENT FOR CRYPTOSPORIDIUM

Section

- 611.1000 General Requirements
- 611.1001 Source Water Monitoring Requirements: Source Water Monitoring
- 611.1002 Source Water Monitoring Requirements: Sampling Schedules
- 611.1003 Source Water Monitoring Requirements: Sampling Locations
- 611.1004 Source Water Monitoring Requirements: Analytical Methods
- 611.1005 Source Water Monitoring Requirements: Approved Laboratories
- 611.1006 Source Water Monitoring Requirements: Reporting Source Water Monitoring Results
- 611.1007 Source Water Monitoring Requirements: Grandfathering Previously Collected Data
- 611.1008 Disinfection Profiling and Benchmarking Requirements: Requirements When Making a Significant Change in Disinfection Practice
- 611.1009 Disinfection Profiling and Benchmarking Requirements: Developing the Disinfection Profile and Benchmark
- 611.1010 Treatment Technique Requirements: Bin Classification for Filtered Systems

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- 611.1011 Treatment Technique Requirements: Filtered System Additional Cryptosporidium Treatment Requirements
- 611.1012 Treatment Technique Requirements: Unfiltered System Cryptosporidium Treatment Requirements
- 611.1013 Treatment Technique Requirements: Schedule for Compliance with Cryptosporidium Treatment Requirements
- 611.1014 Treatment Technique Requirements: Requirements for Uncovered Finished Water Storage Facilities
- 611.1015 Requirements for Microbial Toolbox Components: Microbial Toolbox Options for Meeting Cryptosporidium Treatment Requirements
- 611.1016 Requirements for Microbial Toolbox Components: Source Toolbox Components
- 611.1017 Requirements for Microbial Toolbox Components: Pre-Filtration Treatment Toolbox Components
- 611.1018 Requirements for Microbial Toolbox Components: Treatment Performance Toolbox Components
- 611.1019 Requirements for Microbial Toolbox Components: Additional Filtration Toolbox Components
- 611.1020 Requirements for Microbial Toolbox Components: Inactivation Toolbox Components
- 611.1021 Reporting and Recordkeeping Requirements: Reporting Requirements
- 611.1022 Reporting and Recordkeeping Requirements: Recordkeeping Requirements
- 611.1023 Requirements to Respond to Significant Deficiencies Identified in Sanitary Surveys Performed by USEPA or the Agency
-
- 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

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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 H	CT Values (mg·min/ℓ) for Cryptosporidium Inactivation by Chlorine Dioxide
611.TABLE I	CT Values (mg·min/ℓ) for Cryptosporidium Inactivation by Ozone
611.TABLE J	UV Dose Table for Cryptosporidium, Giardia lamblia, and Virus Inactivation Credit
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. 12666, effective August 26, 2004; amended in R05-6 at 29 Ill. Reg. 2287, effective January 28, 2005; amended in R06-15 at 30 Ill. Reg. 17004, effective October 13, 2006; amended in R07-2/R07-11 at 31 Ill. Reg. 11757, effective July 27, 2007; amended in R08-7/R08-13 at 33 Ill. Reg. 633, effective December 30, 2008; amended in R10-1/R10-17/R11-6 at 34 Ill. Reg. 19848, effective December 7, 2010.

SUBPART A: GENERAL

Section 611.101 Definitions

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As used in this Part, the following terms have the given meanings:

"Act" means the Environmental Protection Act [415 ILCS 5].

"Agency" means the Illinois Environmental Protection Agency.

BOARD NOTE: The Department of Public Health (Public Health or DPH) regulates non-community water supplies ("non-CWSs," including non-transient, non-community water supplies ("NTNCWSs") and transient non-community water supplies ("transient non-CWSs")). ~~For the purposes of regulation of supplies by Public Health by reference to this Part,~~ "Agency" will mean the Department of Public Health where implementation by Public Health occurs with regard to non-CWS suppliers.

"Approved source of bottled water;" ~~for the purposes of Section 611.130(d) (4),~~ means a source of water and the water therefrom, whether it be from a spring, artesian well, drilled well, municipal water supply, or any other source, that has been inspected and the water sampled, analyzed, and found to be a safe and sanitary quality according to applicable laws and regulations of State and local government agencies having jurisdiction, as evidenced by the presence in the plant of current certificates or notations of approval from each government agency or agencies having jurisdiction over the source, the water it bottles, and the distribution of the water in commerce.

BOARD NOTE: Derived from 40 CFR 142.62(g)(2) and 21 CFR 129.3(a) ~~(2009)(2007)~~. The Board cannot compile an exhaustive listing of all federal, State, and local laws to which bottled water and bottling water may be subjected. However, the statutes and regulations of which the Board is aware are the following: the Illinois Food, Drug and Cosmetic Act [410 ILCS 620], the Bottled Water Act [815 ILCS 310], the DPH Water Well Construction Code (77 Ill. Adm. Code 920), the DPH Water Well Pump Installation Code (77 Ill. Adm. Code 925), the federal bottled water quality standards (21 CFR 103.35), the federal drinking water processing and bottling standards (21 CFR 129), the federal Current Good Manufacturing Practice in Manufacturing, Packing, or Holding Human Food (21 CFR 110), the federal Fair Packaging and Labeling Act (15 USC 1451 et seq.), and the federal Fair Packaging and Labeling regulations (21 CFR 201).

"Bag filters" means pressure-driven separation devices that remove particulate matter larger than one micrometer using an engineered porous filtration media. They are typically constructed of a non-rigid, fabric filtration media housed in a

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pressure vessel in which the direction of flow is from the inside of the bag to outside.

"Bank filtration" means a water treatment process that uses a well to recover surface water that has naturally infiltrated into groundwater through a river bed or banks. Infiltration is typically enhanced by the hydraulic gradient imposed by a nearby pumping water supply or other wells.

"Best available technology" or "BAT" means the best technology, treatment techniques, or other means that USEPA has found are available for the contaminant in question. BAT is specified in Subpart F of this Part.

"Bin classification" or "bin" means, for the purposes of Subpart Z of this Part, the appropriate of the four treatment categories (Bin 1, Bin 2, Bin 3, or Bin 4) that is assigned to a filtered system supplier pursuant to Section 611.1010 based on the results of the source water Cryptosporidium monitoring described in the previous section. This bin classification determines the degree of additional Cryptosporidium treatment, if any, the filtered PWS must provide.

BOARD NOTE: Derived from 40 CFR 141.710 and the preamble discussion at 71 Fed. Reg. 654, 657 (Jan. 5, 2006).

"Board" means the Illinois Pollution Control Board.

"Cartridge filters" means pressure-driven separation devices that remove particulate matter larger than 1 micrometer using an engineered porous filtration media. They are typically constructed as rigid or semi-rigid, self-supporting filter elements housed in pressure vessels in which flow is from the outside of the cartridge to the inside.

"CAS No." means "Chemical Abstracts Services Number."

"CT" or "CT_{calc}" is the product of "residual disinfectant concentration" (RDC or C) in mg/l determined before or at the first customer, and the corresponding "disinfectant contact time" (T) in minutes. If a supplier applies disinfectants at more than one point prior to the first customer, it must determine the CT of each disinfectant sequence before or at the first customer to determine the total percent inactivation or "total inactivation ratio." In determining the total inactivation ratio, the supplier must determine the RDC of each disinfection sequence and corresponding contact time before any subsequent disinfection application points.

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(See "CT_{99.9}.")

"CT_{99.9}" is the CT value required for 99.9 percent (3-log) inactivation of *Giardia lamblia* cysts. CT_{99.9} for a variety of disinfectants and conditions appear in Tables 1.1-1.6, 2.1 and 3.1 of Appendix B of this Part. (See "Inactivation Ratio.")

BOARD NOTE: Derived from the definition of "CT" in 40 CFR 141.2

~~(2010)~~(2007).

"Coagulation" means a process using coagulant chemicals and mixing by which colloidal and suspended materials are destabilized and agglomerated into flocs.

"Combined distribution system" means the interconnected distribution system consisting of the distribution systems of wholesale systems and of the consecutive systems that receive finished water.

"Community water system" or "CWS" means a public water system (PWS) that serves at least 15 service connections used by year-round residents or regularly serves at least 25 year-round residents.

BOARD NOTE: This definition differs slightly from that of Section 3.05 of the Act.

"Compliance cycle" means the nine-year calendar year cycle during which public water systems (PWSs) must monitor. Each compliance cycle consists of three three-year compliance periods. The first calendar cycle began January 1, 1993, and ended December 31, 2001; the second began January 1, 2002, and ends December 31, 2010; the third begins January 1, 2011, and ends December 31, 2019.

"Compliance period" means a three-year calendar year period within a compliance cycle. Each compliance cycle has three three-year compliance periods. Within the first compliance cycle, the first compliance period ran from January 1, 1993 to December 31, 1995; the second from January 1, 1996 to December 31, 1998; the third from January 1, 1999 to December 31, 2001.

"Comprehensive performance evaluation" or "CPE" is a thorough review and analysis of a treatment plant's performance-based capabilities and associated administrative, operation, and maintenance practices. It is conducted to identify factors that may be adversely impacting a plant's capability to achieve compliance and emphasizes approaches that can be implemented without significant capital

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improvements.

BOARD NOTE: The final sentence of the definition of "comprehensive performance evaluation" in 40 CFR 141.2 is codified as Section 611.160(a)(2), since it contains substantive elements that are more appropriately codified in a substantive provision.

"Confluent growth" means a continuous bacterial growth covering the entire filtration area of a membrane filter or a portion thereof, in which bacterial colonies are not discrete.

"Consecutive system" means a public water system that receives some or all of its finished water from one or more wholesale systems. Delivery may be through a direct connection or through the distribution system of one or more consecutive systems.

"Contaminant" means any physical, chemical, biological, or radiological substance or matter in water.

"Conventional filtration treatment" means a series of processes including coagulation, flocculation, sedimentation, and filtration resulting in substantial particulate removal.

"Diatomaceous earth filtration" means a process resulting in substantial particulate removal in which the following occur:

A precoat cake of diatomaceous earth filter media is deposited on a support membrane (septum); and

While the water is filtered by passing through the cake on the septum, additional filter media known as body feed is continuously added to the feed water to maintain the permeability of the filter cake.

"Direct filtration" means a series of processes including coagulation and filtration but excluding sedimentation resulting in substantial particulate removal.

"Disinfectant" means any oxidant, including but not limited to chlorine, chlorine dioxide, chloramines, and ozone added to water in any part of the treatment or distribution process, that is intended to kill or inactivate pathogenic microorganisms.

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"Disinfectant contact time" or "T" means the time in minutes that it takes for water to move from the point of disinfectant application or the previous point of RDC measurement to a point before or at the point where RDC is measured.

Where only one RDC is measured, T is the time in minutes that it takes for water to move from the point of disinfectant application to a point before or at the point where RDC is measured.

Where more than one RDC is measured, T is as follows:

For the first measurement of RDC, the time in minutes that it takes for water to move from the first or only point of disinfectant application to a point before or at the point where the first RDC is measured; and

For subsequent measurements of RDC, the time in minutes that it takes for water to move from the previous RDC measurement point to the RDC measurement point for which the particular T is being calculated.

T in pipelines must be calculated based on "plug flow" by dividing the internal volume of the pipe by the maximum hourly flow rate through that pipe.

T within mixing basins and storage reservoirs must be determined by tracer studies or an equivalent demonstration.

"Disinfection" means a process that inactivates pathogenic organisms in water by chemical oxidants or equivalent agents.

"Disinfection byproduct" or "DBP" means a chemical byproduct that forms when disinfectants used for microbial control react with naturally occurring compounds already present in source water. DBPs include, but are not limited to, bromodichloromethane, bromoform, chloroform, dichloroacetic acid, bromate, chlorite, dibromochloromethane, and certain haloacetic acids.

"Disinfection profile" is a summary of daily *Giardia lamblia* inactivation through the treatment plant. The procedure for developing a disinfection profile is

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contained in Section 611.742.

"Distribution system" includes all points downstream of an "entry point" to the point of consumer ownership.

"Domestic or other non-distribution system plumbing problem" means a coliform contamination problem in a PWS with more than one service connection that is limited to the specific service connection from which the coliform-positive sample was taken.

"Dose equivalent" means the product of the absorbed dose from ionizing radiation and such factors as account for differences in biological effectiveness due to the type of radiation and its distribution in the body as specified by the International Commission on Radiological Units and Measurements (ICRU).

"Dual sample set" means a set of two samples collected at the same time and same location, with one sample analyzed for TTHM and the other sample analyzed for HAA5. Dual sample sets are collected for the purposes of conducting an IDSE under Subpart W of this Part and determining compliance with the TTHM and HAA5 MCLs under Subpart Y of this Part.

"Enhanced coagulation" means the addition of sufficient coagulant for improved removal of disinfection byproduct (DBP) precursors by conventional filtration treatment.

"Enhanced softening" means the improved removal of disinfection byproduct (DBP) precursors by precipitative softening.

"Entry point" means a point just downstream of the final treatment operation, but upstream of the first user and upstream of any mixing with other water. If raw water is used without treatment, the "entry point" is the raw water source. If a PWS receives treated water from another PWS, the "entry point" is a point just downstream of the other PWS, but upstream of the first user on the receiving PWS, and upstream of any mixing with other water.

"Filter profile" is a graphical representation of individual filter performance, based on continuous turbidity measurements or total particle counts versus time for an entire filter run, from startup to backwash inclusively, that includes an assessment of filter performance while another filter is being backwashed.

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"Filtration" means a process for removing particulate matter from water by passage through porous media.

"Finished water" means water that is introduced into the distribution system of a public water system which is intended for distribution and consumption without further treatment, except that treatment which is necessary to maintain water quality in the distribution system (e.g., booster disinfection, addition of corrosion control chemicals, etc.).

"Flocculation" means a process to enhance agglomeration or collection of smaller floc particles into larger, more easily settleable particles through gentle stirring by hydraulic or mechanical means.

"Flowing stream" means a course of running water flowing in a definite channel.

"40/30 certification" means the certification, submitted by the supplier to the Agency pursuant to Section 611.923, that the supplier had no TTHM or HAA5 monitoring violations, and that no individual sample from its system exceeded 0.040 mg/l TTHM or 0.030 mg/l HAA5 during eight consecutive calendar quarters.

BOARD NOTE: Derived from 40 CFR 141.603(a) ~~(2007)~~ (2010).

"GAC10" means granular activated carbon (GAC) filter beds with an empty-bed contact time of 10 minutes based on average daily flow and a carbon reactivation frequency of every 180 days, except that the reactivation frequency for GAC10 that is used as a best available technology for compliance with the MCLs set forth in Subpart Y of this Part pursuant to Section 611.312(b)(2) is 120 days.

"GAC20" means granular activated carbon filter beds with an empty-bed contact time of 20 minutes based on average daily flow and a carbon reactivation frequency of every 240 days.

"GC" means "gas chromatography" or "gas-liquid phase chromatography."

"GC/MS" means gas chromatography (GC) followed by mass spectrometry (MS).

"Gross alpha particle activity" means the total radioactivity due to alpha particle emission as inferred from measurements on a dry sample.

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"Gross beta particle activity" means the total radioactivity due to beta particle emission as inferred from measurements on a dry sample.

"Groundwater system" or "GWS" means a public water supply (PWS) that uses only groundwater sources, including a consecutive system that receives finished groundwater.

BOARD NOTE: Derived from 40 CFR 141.23(b)(2) and 141.24(f)(2) note and 40 CFR 141.400(b) ~~(2010)~~(2007).

"Groundwater under the direct influence of surface water" means any water beneath the surface of the ground with significant occurrence of insects or other macroorganisms, algae, or large-diameter pathogens, such as *Giardia lamblia* or *Cryptosporidium*, or significant and relatively rapid shifts in water characteristics, such as turbidity, temperature, conductivity, or pH, that closely correlate to climatological or surface water conditions. "Groundwater under the direct influence of surface water" is as determined in Section 611.212.

"Haloacetic acids (five)" or "HAA5" means the sum of the concentrations in milligrams per liter (mg/l) of five haloacetic acid compounds (monochloroacetic acid, dichloroacetic acid, trichloroacetic acid, monobromoacetic acid, and dibromoacetic acid), rounded to two significant figures after addition.

"Halogen" means one of the chemical elements chlorine, bromine, or iodine.

"HPC" means "heterotrophic plate count," measured as specified in Section 611.531(c).

"Hydrogeologic sensitivity assessment," for the purposes of Subpart S of this Part, means a determination of whether a GWS supplier obtains water from a hydrogeologically sensitive setting.

BOARD NOTE: Derived from 40 CFR 141.400(c)(5) ~~(2010)~~(2007).

"Inactivation ratio" or "Ai" means as follows:

$$A_i = CT_{\text{calc}}/CT_{99.9}$$

The sum of the inactivation ratios or "total inactivation ratio" (B), is calculated by adding together the inactivation ratio for each disinfection

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sequence as follows:

$$B = \Sigma(A_i)$$

A total inactivation ratio equal to or greater than 1.0 is assumed to provide a 3-log inactivation of *Giardia lamblia* cysts.

BOARD NOTE: Derived from the definition of "CT" in 40 CFR 141.2
~~(2010)~~(2007).

"Initial compliance period" means the three-year compliance period that begins January 1, 1993, except for the MCLs for dichloromethane, 1,2,4-trichlorobenzene, 1,1,2-trichloroethane, benzo(a)pyrene, dalapon, di(2-ethylhexyl)adipate, di(2-ethylhexyl)phthalate, dinoseb, diquat, endothall, endrin, glyphosate, hexachlorobenzene, hexachlorocyclopentadiene, oxamyl, picloram, simazine, 2,3,7,8-TCDD, antimony, beryllium, cyanide, nickel, and thallium, as they apply to a supplier whose system has fewer than 150 service connections, for which it means the three-year compliance period that began on January 1, 1996.

"Initial distribution system evaluation" or "IDSE" means the evaluation, performed by the supplier pursuant to Section 611.921(c), to determine the locations in a distribution system that are representative of high TTHM and HAA5 concentrations throughout the distribution system. An IDSE is used in conjunction with, but is distinct from, the compliance monitoring undertaken to identify and select monitoring locations used to determine compliance with Subpart I of this Part.

BOARD NOTE: Derived from 40 CFR 141.601(c) ~~(2010)~~(2007).

"Inorganic contaminants" or "IOCs" refers to that group of contaminants designated as such in United States Environmental Protection Agency (USEPA) regulatory discussions and guidance documents. IOCs include antimony, arsenic, asbestos, barium, beryllium, cadmium, chromium, cyanide, mercury, nickel, nitrate, nitrite, selenium, and thallium.

BOARD NOTE: The IOCs are derived from 40 CFR 141.23(a)(4) ~~(2010)~~(2007).

"ℓ" means "liter."

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"Lake or reservoir" means a natural or man made basin or hollow on the Earth's surface in which water collects or is stored that may or may not have a current or single direction of flow.

"Legionella" means a genus of bacteria, some species of which have caused a type of pneumonia called Legionnaires Disease.

"Locational running annual average" or "LRAA" means the average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters.

"Man-made beta particle and photon emitters" means all radionuclides emitting beta particles or photons listed in "Maximum Permissible Body Burdens and Maximum Permissible Concentrations of Radionuclides in Air and in Water for Occupational Exposure," NCRP Report Number 22, incorporated by reference in Section 611.102, except the daughter products of thorium-232, uranium-235 and uranium-238.

"Maximum contaminant level" or "MCL" means the maximum permissible level of a contaminant in water that is delivered to any user of a public water system. (See Section 611.121.)

"Maximum contaminant level goal" or "MCLG" means the maximum level of a contaminant in drinking water at which no known or anticipated adverse effect on the health of persons would occur, and which allows an adequate margin of safety. MCLGs are nonenforceable health goals.

BOARD NOTE: The Board has not routinely adopted the regulations relating to the federal MCLGs because they are outside the scope of the Board's identical-in-substance mandate under Section 17.5 of the Act [415 ILCS 5/17.5].

"Maximum residual disinfectant level" or "MRDL" means the maximum permissible level of a disinfectant added for water treatment that may not be exceeded at the consumer's tap without an unacceptable possibility of adverse health effects. MRDLs are enforceable in the same manner as are MCLs. (See Section 611.313 and Section 611.383.)

"Maximum residual disinfectant level goal" or "MRDLG" means the maximum level of a disinfectant added for water treatment at which no known or anticipated adverse effect on the health of persons would occur, and which allows an

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adequate margin of safety. MRDLGs are nonenforceable health goals and do not reflect the benefit of the addition of the chemical for control of waterborne microbial contaminants.

"Maximum total trihalomethane potential" or "MTP" means the maximum concentration of total trihalomethanes (TTHMs) produced in a given water containing a disinfectant residual after seven days at a temperature of 25° C or above.

"Membrane filtration" means a pressure or vacuum driven separation process in which particulate matter larger than one micrometer is rejected by an engineered barrier, primarily through a size exclusion mechanism, and which has a measurable removal efficiency of a target organism that can be verified through the application of a direct integrity test. This definition includes the common membrane technologies of microfiltration, ultrafiltration, nanofiltration, and reverse osmosis.

"MFL" means millions of fibers per liter larger than 10 micrometers.
BOARD NOTE: Derived from 40 CFR 141.23(a)(4)(i) [\(2010\)](#)~~(2007)~~.

"mg" means milligrams (1/1000 of a gram).

"mg/l " means milligrams per liter.

"Mixed system" means a PWS that uses both groundwater and surface water sources.

BOARD NOTE: Drawn from 40 CFR 141.23(b)(2) and 141.24(f)(2) note [\(2010\)](#)~~(2007)~~.

"MUG" means 4-methyl-umbelliferyl-beta-d-glucuronide.

"Near the first service connection" means at one of the 20 percent of all service connections in the entire system that are nearest the public water system (PWS) treatment facility, as measured by water transport time within the distribution system.

"nm" means nanometer (1/1,000,000,000 of a meter).

"Non-community water system" or "NCWS" or "non-CWS" means a public water

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system (PWS) that is not a community water system (CWS). A non-community water system is either a "transient non-community water system (TWS)" or a "non-transient non-community water system (NTNCWS)."

"Non-transient, non-community water system" or "non-transient, non-CWS" or "NTNCWS" means a public water system (PWS) that is not a community water system (CWS) and that regularly serves at least 25 of the same persons over six months per year.

"NPDWR" means "national primary drinking water regulation."

"NTU" means "nephelometric turbidity units."

"Old MCL" means one of the inorganic maximum contaminant levels (MCLs), codified at Section 611.300, or organic MCLs, codified at Section 611.310, including any marked as "additional State requirements."

BOARD NOTE: Old MCLs are those derived prior to the implementation of the USEPA "Phase II" regulations. The Section 611.640 definition of this term, which applies only to Subpart O of this Part, differs from this definition in that the definition does not include the Section 611.300 inorganic MCLs.

"P-A Coliform Test" means "Presence-Absence Coliform Test."

"Paired sample" means two samples of water for Total Organic Carbon (TOC). One sample is of raw water taken prior to any treatment. The other sample is taken after the point of combined filter effluent and is representative of the treated water. These samples are taken at the same time. (See Section 611.382.)

"Performance evaluation sample" or "PE sample" means a reference sample provided to a laboratory for the purpose of demonstrating that the laboratory can successfully analyze the sample within limits of performance specified by the Agency; or, for bacteriological laboratories, Public Health; or, for radiological laboratories, the Illinois Department of Nuclear Safety. The true value of the concentration of the reference material is unknown to the laboratory at the time of the analysis.

"Person" means an individual, corporation, company, association, partnership, state, unit of local government, or federal agency.

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"Phase I" refers to that group of chemical contaminants and the accompanying regulations promulgated by USEPA on July 8, 1987, at 52 Fed. Reg. 25712.

"Phase II" refers to that group of chemical contaminants and the accompanying regulations promulgated by USEPA on January 30, 1991, at 56 Fed. Reg. 3578.

"Phase IIB" refers to that group of chemical contaminants and the accompanying regulations promulgated by USEPA on July 1, 1991, at 56 Fed. Reg. 30266.

"Phase V" refers to that group of chemical contaminants promulgated by USEPA on July 17, 1992, at 57 Fed. Reg. 31776.

"Picocurie" or "pCi" means the quantity of radioactive material producing 2.22 nuclear transformations per minute.

"Plant intake" means the works or structures at the head of a conduit through which water is diverted from a source (e.g., a river or lake) into the treatment plant.

"Point of disinfectant application" is the point at which the disinfectant is applied and downstream of which water is not subject to recontamination by surface water runoff.

"Point-of-entry treatment device" or "POE" is a treatment device applied to the drinking water entering a house or building for the purpose of reducing contaminants in the drinking water distributed throughout the house or building.

"Point-of-use treatment device" or "POU" is a treatment device applied to a single tap used for the purpose of reducing contaminants in drinking water at that one tap.

"Presedimentation" means a preliminary treatment process used to remove gravel, sand, and other particulate material from the source water through settling before the water enters the primary clarification and filtration processes in a treatment plant.

"Public Health" or "DPH" means the Illinois Department of Public Health.

BOARD NOTE: ~~See the definition of The Department of Public Health ("Public Health") regulates non-community water supplies ("non-CWSs," including non-~~

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~~transient, non-community water supplies ("NTNCWSs") and transient non-community water supplies ("transient non-CWSs"). For the purposes of regulation of supplies by Public Health by reference to this Part, "Agency" in this Section must mean Public Health.~~

"Public water system" or "PWS" means a system for the provision to the public of water for human consumption through pipes or other constructed conveyances, if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year. A PWS is either a community water system (CWS) or a non-community water system (non-CWS). A PWS does not include any facility defined as "special irrigation district." Such term includes the following:

Any collection, treatment, storage, and distribution facilities under control of the operator of such system and used primarily in connection with such system; and

Any collection or pretreatment storage facilities not under such control that are used primarily in connection with such system.

BOARD NOTE: Where used in Subpart F of this Part, "public water supply" means the same as "public water system."

"Radioactive contaminants" refers to that group of contaminants designated "radioactive contaminants" in USEPA regulatory discussions and guidance documents. "Radioactive contaminants" include tritium, strontium-89, strontium-90, iodine-131, cesium-134, gross beta emitters, and other nuclides.

BOARD NOTE: Derived from 40 CFR 141.25(c) Table B (2010)(2007). These radioactive contaminants must be reported in Consumer Confidence Reports under Subpart U of this Part when they are detected above the levels indicated in Section 611.720(c)(3).

"Reliably and consistently" below a specified level for a contaminant means an Agency determination based on analytical results following the initial detection of a contaminant to determine the qualitative condition of water from an individual sampling point or source. The Agency must base this determination on the consistency of analytical results, the degree below the MCL, the susceptibility of source water to variation, and other vulnerability factors pertinent to the contaminant detected that may influence the quality of water.

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BOARD NOTE: Derived from 40 CFR 141.23(b)(9), 141.24(f)(11)(ii), and 141.24(f)(11)(iii) ~~(2010)(2007)~~.

"Rem" means the unit of dose equivalent from ionizing radiation to the total body or any internal organ or organ system. A "millirem (mrem)" is 1/1000 of a rem.

"Repeat compliance period" means a compliance period that begins after the initial compliance period.

"Representative" means that a sample must reflect the quality of water that is delivered to consumers under conditions when all sources required to supply water under normal conditions are in use and all treatment is properly operating.

"Residual disinfectant concentration" ("RDC" or "C" in CT calculations) means the concentration of disinfectant measured in mg/l in a representative sample of water. For purposes of the requirement of Section 611.241(d) of maintaining a detectable RDC in the distribution system, "RDC" means a residual of free or combined chlorine.

"Safe Drinking Water Act" or "SDWA" means the Public Health Service Act, as amended by the Safe Drinking Water Act, Pub. L. 93-523, 42 USC 300f et seq.

"Sanitary survey" means an onsite review of the delineated WHPAs (identifying sources of contamination within the WHPAs and evaluations or the hydrogeologic sensitivity of the delineated WHPAs conducted under source water assessments or utilizing other relevant information where available), facilities, equipment, operation, maintenance, and monitoring compliance of a public water system (PWS) to evaluate the adequacy of the system, its sources, and operations for the production and distribution of safe drinking water.

BOARD NOTE: Derived from 40 CFR 141.2 and 40 CFR 142.16(o)(2) ~~(2010)(2007)~~.

"Sedimentation" means a process for removal of solids before filtration by gravity or separation.

"SEP" means special exception permit (Section 611.110).

"Service connection," as used in the definition of public water system, does not include a connection to a system that delivers water by a constructed conveyance

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other than a pipe if any of the following is true:

The water is used exclusively for purposes other than residential use (consisting of drinking, bathing, and cooking, or other similar uses);

The Agency determines by issuing a SEP that alternative water for residential use or similar uses for drinking and cooking is provided to achieve the equivalent level of public health protection provided by the applicable national primary drinking water regulations; or

The Agency determines by issuing a SEP that the water provided for residential use or similar uses for drinking, cooking, and bathing is centrally treated or treated at the point of entry by the provider, a pass-through entity, or the user to achieve the equivalent level of protection provided by the applicable national primary drinking water regulations.

BOARD NOTE: See sections 1401(4)(B)(i)(II) and (4)(B)(i)(III) of SDWA (42 USC 300f(4)(B)(i)(II) and (4)(B)(i)(III) (2000)).

"Significant deficiency" means a deficiency identified by the Agency in a groundwater system pursuant to Section 611.803. A significant deficiency might include, but is not limited to, a defect in system design, operation, or maintenance or a failure or malfunction of the sources, treatment, storage, or distribution system that the Agency determines to be causing or have potential for causing the introduction of contamination into the water delivered to consumers.

BOARD NOTE: Derived from 40 CFR 142.16(o)(2)(iv) ~~(2010)(2007)~~. The Agency must submit to USEPA a definition and description of at least one significant deficiency in each of the eight sanitary survey elements listed in Section 611.801(c) as part of the federal primacy requirements. The Board added the general description of what a significant deficiency might include in non-limiting terms, in order to provide this important definition within the body of the Illinois rules. No Agency submission to USEPA can provide definition within the context of Board regulations.

"Slow sand filtration" means a process involving passage of raw water through a bed of sand at low velocity (generally less than 0.4 meters per hour (m/h)) resulting in substantial particulate removal by physical and biological mechanisms.

"SOC" or "Synthetic organic chemical contaminant" refers to that group of

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contaminants designated as "SOCs," or "synthetic organic chemicals" or "synthetic organic contaminants," in USEPA regulatory discussions and guidance documents. "SOCs" include alachlor, aldicarb, aldicarb sulfone, aldicarb sulfoxide, atrazine, benzo(a)pyrene, carbofuran, chlordane, dalapon, dibromoethylene (ethylene dibromide or EDB), dibromochloropropane (DBCP), di(2-ethylhexyl)adipate, di(2-ethylhexyl)phthalate, dinoseb, diquat, endothall, endrin, glyphosate, heptachlor, heptachlor epoxide, hexachlorobenzene, hexachlorocyclopentadiene, lindane, methoxychlor, oxamyl, pentachlorophenol, picloram, simazine, toxaphene, polychlorinated biphenyls (PCBs), 2,4-D, 2,3,7,8-TCDD, and 2,4,5-TP.

BOARD NOTE: See the Board note appended to Section 611.311 for information relating to implementation of requirements relating to aldicarb, aldicarb sulfone, and aldicarb sulfoxide.

"Source" means a well, reservoir, or other source of raw water.

"Special irrigation district" means an irrigation district in existence prior to May 18, 1994 that provides primarily agricultural service through a piped water system with only incidental residential use or similar use, where the system or the residential users or similar users of the system comply with either of the following exclusion conditions:

The Agency determines by issuing a SEP that alternative water is provided for residential use or similar uses for drinking or cooking to achieve the equivalent level of public health protection provided by the applicable national primary drinking water regulations; or

The Agency determines by issuing a SEP that the water provided for residential use or similar uses for drinking, cooking, and bathing is centrally treated or treated at the point of entry by the provider, a pass-through entity, or the user to achieve the equivalent level of protection provided by the applicable national primary drinking water regulations.

BOARD NOTE: Derived from 40 CFR 141.2 ~~(2010)(2007)~~ and sections 1401(4)(B)(i)(II) and (4)(B)(i)(III) of SDWA (42 USC 300f(4)(B)(i)(II) and (4)(B)(i)(III) ~~(2006)(2007)~~).

"Standard monitoring" means the monitoring, performed by the supplier pursuant to Section 611.921(a) and (b), at various specified locations in a distribution system including near entry points, at points that represent the average residence

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time in the distribution system, and at points in the distribution system that are representative of high TTHM and HAA5 concentrations throughout the distribution system.

BOARD NOTE: Derived from 40 CFR 141.601(a) and (b) ~~(2010)(2007)~~.

"Standard sample" means the aliquot of finished drinking water that is examined for the presence of coliform bacteria.

"Subpart B system" means a public water system that uses surface water or groundwater under the direct influence of surface water as a source and which is subject to the requirements of Subpart B of this Part and the analytical and monitoring requirements of Sections 611.531, 611.532, 611.533, Appendix B of this Part, and Appendix C of this Part.

"Subpart I compliance monitoring" means monitoring required to demonstrate compliance with disinfectant residuals, disinfection byproducts, and disinfection byproduct precursors requirements of Subpart I of this Part.

"Subpart I system" means a public water system that uses surface water or groundwater as a source and which is subject to the disinfectant residuals, disinfection byproducts, and disinfection byproduct precursors requirements of Subpart I of this Part.

"Subpart Y compliance monitoring" means monitoring required to demonstrate compliance with Stage 2 disinfection byproducts requirements of Subpart Y of this Part.

"Supplier of water" or "supplier" means any person who owns or operates a public water system (PWS). This term includes the "official custodian."

"Surface water" means all water that is open to the atmosphere and subject to surface runoff.

"SUVA" means specific ultraviolet absorption at 254 nanometers (nm), which is an indicator of the humic content of water. It is a calculated parameter obtained by dividing a sample's ultraviolet absorption at a wavelength of 254 nm (UV_{254}) (in m^{-1}) by its concentration of dissolved organic carbon (in mg/ℓ).

"SWS" means "surface water system," a public water supply (PWS) that uses only

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surface water sources, including "groundwater under the direct influence of surface water."

BOARD NOTE: Derived from 40 CFR 141.23(b)(2) and 141.24(f)(2) note ~~(2010)(2007)~~.

"System-specific study plan" means the plan, submitted by the supplier to the Agency pursuant to Section 611.922, for studying the occurrence of TTHM and HAA5 in a supplier's distribution system based on either monitoring results or modelling of the system.

BOARD NOTE: Derived from 40 CFR 141.602 ~~(2010)(2007)~~.

"System with a single service connection" means a system that supplies drinking water to consumers via a single service line.

"Too numerous to count" means that the total number of bacterial colonies exceeds 200 on a 47-mm diameter membrane filter used for coliform detection.

"Total organic carbon" or "TOC" means total organic carbon (in mg/ℓ) measured using heat, oxygen, ultraviolet irradiation, chemical oxidants, or combinations of these oxidants that convert organic carbon to carbon dioxide, rounded to two significant figures.

"Total trihalomethanes" or "TTHM" means the sum of the concentration of trihalomethanes (THMs), in milligrams per liter (mg/ℓ), rounded to two significant figures.

BOARD NOTE: See the definition of "trihalomethanes" for a listing of the four compounds that USEPA considers TTHMs to comprise.

"Transient, non-community water system" or "transient non-CWS" means a non-CWS that does not regularly serve at least 25 of the same persons over six months of the year.

BOARD NOTE: The federal regulations apply to all "public water systems," which are defined as all systems that have at least 15 service connections or which regularly serve water to at least 25 persons. (See 42 USC 300f(4).) The Act mandates that the Board and the Agency regulate "public water supplies," which it defines as having at least 15 service connections or regularly serving 25 persons daily at least 60 days per year. (See Section 3.28 of the Act [415 ILCS 5/3.28].) The Department of Public Health regulates transient, non-community water systems.

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"Treatment" means any process that changes the physical, chemical, microbiological, or radiological properties of water, is under the control of the supplier, and is not a point-of-use treatment device or a point-of-entry treatment device as defined in this Section. Treatment includes, but is not limited to, aeration, coagulation, sedimentation, filtration, activated carbon treatment, disinfection, and fluoridation.

"Trihalomethane" or "THM" means one of the family of organic compounds, named as derivatives of methane, in which three of the four hydrogen atoms in methane are each substituted by a halogen atom in the molecular structure. The THMs are the following compounds:

Trichloromethane (chloroform),
Dibromochloromethane,
Bromodichloromethane, and
Tribromomethane (bromoform)

"Two-stage lime softening" means a process in which chemical addition and hardness precipitation occur in each of two distinct unit clarification processes in series prior to filtration.

"µg" means micrograms (1/1,000,000 of a gram).

"USEPA" means the U.S. Environmental Protection Agency.

"Uncovered finished water storage facility" is a tank, reservoir, or other facility that is used to store water which will undergo no further treatment to reduce microbial pathogens except residual disinfection and which is directly open to the atmosphere.

"Very small system waiver" means the conditional waiver from the requirements of Subpart W of this Part applicable to a supplier that serves fewer than 500 persons and which has taken TTHM and HAA5 samples pursuant to Subpart I of this Part.

BOARD NOTE: Derived from 40 CFR 141.604 [\(2010\)](#)~~(2007)~~.

"Virus" means a virus of fecal origin that is infectious to humans by waterborne transmission.

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"VOC" or "volatile organic chemical contaminant" refers to that group of contaminants designated as "VOCs," "volatile organic chemicals," or "volatile organic contaminants," in USEPA regulatory discussions and guidance documents. "VOCs" include benzene, dichloromethane, tetrachloromethane (carbon tetrachloride), trichloroethylene, vinyl chloride, 1,1,1-trichloroethane (methyl chloroform), 1,1-dichloroethylene, 1,2-dichloroethane, cis-1,2-dichloroethylene, ethylbenzene, monochlorobenzene, o-dichlorobenzene, styrene, 1,2,4-trichlorobenzene, 1,1,2-trichloroethane, tetrachloroethylene, toluene, trans-1,2-dichloroethylene, xylene, and 1,2-dichloropropane.

"Waterborne disease outbreak" means the significant occurrence of acute infectious illness, epidemiologically associated with the ingestion of water from a public water system (PWS) that is deficient in treatment, as determined by the appropriate local or State agency.

"Wellhead protection area" or "WHPA" means the surface and subsurface recharge area surrounding a community water supply well or well field, delineated outside of any applicable setback zones (pursuant to Section 17.1 of the Act [415 ILCS 5/17.1]) pursuant to Illinois' Wellhead Protection Program, through which contaminants are reasonably likely to move toward such well or well field.

BOARD NOTE: The Agency uses two guidance documents for identification of WHPAs:

"Guidance Document for Groundwater Protection Needs Assessments," Illinois Environmental Protection Agency, Illinois State Water Survey, and Illinois State Geologic Survey joint report, January 1995; and

"The Illinois Wellhead Protection Program Pursuant to Section 1428 of the Federal Safe Drinking Water Act," Illinois Environmental Protection Agency, No. 22480, October 1992.

"Wellhead protection program" means the wellhead protection program for the State of Illinois, approved by USEPA under Section 1428 of the SDWA, 42 USC 300h-7.

BOARD NOTE: Derived from 40 CFR 141.71(b) ~~(2010)(2007)~~. The wellhead protection program includes the "groundwater protection needs assessment" under Section 17.1 of the Act [415 ILCS 5/17.1] and 35 Ill. Adm. Code 615-617.

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"Wholesale system" means a public water system that treats source water as necessary to produce finished water, which then delivers some or all of that finished water to another public water system. Delivery by a wholesale system may be through a direct connection or through the distribution system of one or more consecutive systems.

BOARD NOTE: Derived from 40 CFR 141.2 [\(2010\)](#)~~(2007)~~.

(Source: Amended at 34 Ill. Reg. 19848, effective December 7, 2010)

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:

"AMI Turbiwell Method" means "Continuous Measurement of Turbidity Using a SWAN AMI Turbiwell Turbidimeter," available from NEMI or from SWAN Analytische Instrumente AG.

"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.

"Colitag® Test" means "Colitag® Product as a Test for Detection and Identification of Coliforms and E. coli Bacteria in Drinking Water and Source Water as Required in National Primary Drinking Water Regulations," available from CPI International.

"Chromocult® Method" 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 EMD Chemicals Inc.

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"Determination of Inorganic Oxyhalide" means "Determination of Inorganic Oxyhalide Disinfection By-Products in Drinking Water Using Ion Chromatography with the Addition of a Postcolumn Reagent for Trace Bromate Analysis," available from NTIS.

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

"E*Colite Test" means "Charm E*Colite Presence/Absence Test for Detection and Identification of Coliform Bacteria and Escherichia coli in Drinking Water," available from Charm Sciences, Inc. and USEPA, Water Resource Center.

"EC-MUG" means "Method 9221 F: Multiple-Tube Fermentation Technique for Members of the Coliform Group, Escherichia coli Procedure (Proposed)," available from American Public Health Association and American Waterworks Association.

"EML Procedures Manual" means "EML Procedures Manual, HASL 300," available from USDOE, EML.

"Enterolert" means "Evaluation of Enterolert for Enumeration of Enterococci in Recreational Waters," available from American Society for Microbiology.

"Georgia Radium Method" means "The Determination of Radium-226 and Radium-228 in Drinking Water by Gamma-ray Spectrometry Using HPGE or Ge(Li) Detectors," Revision 1.2, December 2004, available from the Georgia Tech Research Institute.

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

"Guidance Manual for Filtration and Disinfection" means "Guidance Manual for Compliance with the Filtration and Disinfection Requirements for Public Water Systems using Surface Water Sources," March 1991, available from USEPA, NSCEP.

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"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.~~

"ITS Method D99-003" means Method D99-003, Revision 3.0, "Free Chlorine Species (HOCl and OCl) by Test Strip," available from Industrial Test Systems, Inc.

"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).~~

"m-ColiBlue24 Test" means "Total Coliforms and E. coli Membrane Filtration Method with m-ColiBlue24® Broth," available from USEPA, Water Resource Center, and Hach Company ~~and USEPA, Water Resource Center.~~

"Method ME355.01" means "Determination of Cyanide in Drinking Water by GC/MS Headspace Analysis," available from NEMI or from H&E Testing Laboratory.

"Mitchell Method M5271" means "Determination of Turbidity by Laser Nephelometry," available from NEMI and Leck Mitchell, PhD.

"Mitchell Method M5331" means "Determination of Turbidity by LED Nephelometry," available from NEMI and Leck Mitchell, PhD.

"Modified Colitag™ Method" means "Modified Colitag™ Test Method for Simultaneous Detection of E. coli and other Total Coliforms in Water," available from NEMI and CPI International.

~~"Membrane Filter Technique using Chromocult Coliform 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 EMD Chemicals Inc.~~

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"NA-MUG" means "Method 9222 G: Membrane Filter Technique for Members of the Coliform Group, MF Partition Procedures," available from American Public Health Association and American Waterworks Association.

"NCRP Report Number 22" means "Maximum Permissible Body Burdens and Maximum Permissible Concentrations of Radionuclides in Air and in Water for Occupational Exposure," available from NCRP. "~~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.

"OI Analytical Method OIA-1677" means "Method OIA-1677, DW Available Cyanide by Flow Injection, Ligand Exchange, and Amperometry," available from ALPKEM, Division of OI Analytical.

"ONPG-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, 19th, 20th, or 21st ed., from American Public Health Association and the American Water Works Association.

"Orion Method AQ4500" means "Determination of Turbidity by LED Nephelometry," available from Thermo Scientific.

"Palintest ChloroSense" means "Measurement of Free and Total Chlorine in Drinking Water by Palintest ChloroSense," available from NEMI or Palintest Ltd.

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

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"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® 2000-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," v. 1.0, available from EMD Chemicals Inc.

~~"Readycult® 2007"~~ means "Readycult® Coliforms 100 Presence/Absence Test for Detection and Identification of Coliform Bacteria and Escherichia coli in Finished Waters," v. 1.1, available from 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.

"Standard Methods Online" means the website maintained by the Standard Methods Organization (at www.standardmethods.org) for purchase of the latest versions of methods in an electronic format.

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

~~"Systea Easy (1-Reagent)" means "Systea Easy (1-Reagent) Nitrate Method," available from NEMI or Systea Scientific LLC.~~

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

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~~"Technical Notes on Drinking Water Methods" means the USEPA document by that title, October 1994, USEPA document number EPA 600/R-94/173, available from NTIS.~~

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

"USEPA Asbestos ~~Method~~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 ~~Inorganic~~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 Method 1600" means "Method 1600: Enterococci in Water by Membrane Filtration Using Membrane-Enterococcus Indoxyl-b-D-Glucoside Agar (mEI)," available from USEPA, Water Resource Center.

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"USEPA Method 1601" means "Method 1601: Male-specific (F⁺) and Somatic Coliphage in Water by Two-step Enrichment Procedure," available from USEPA, Water Resource Center.

"USEPA Method 1602" means "Method 1602: Male-specific (F⁺) and Somatic Coliphage in Water by Single Agar Layer (SAL) Procedure," available from USEPA, Water Resource Center.

"USEPA Method 1604" means "Method 1604: Total Coliforms and Escherichia coli in Water by Membrane Filtration Using a Simultaneous Detection Technique (MI Medium)," available from USEPA, Water Resource Center.

"USEPA NERL Method 200.5 (rev. 4.2)" means Method 200.5, Revision 4.2, "Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma – Atomic Emission Spectrometry," October 2003, EPA 600/R-06/115. Available from ~~the~~USEPA, Office of Research and Development.

"USEPA NERL Method 415.3 (rev. 1.1)" means Method 415.3, Revision 1.1, "Determination of Total Organic Carbon and Specific UV Absorbance at 254 nm in Source Water and Drinking Water," USEPA, February 2005, EPA 600/R-05/055. Available from ~~the~~USEPA, Office of Research and Development.

"USEPA NERL Method 415.3 (rev. 1.2)" means Method 415.3, Revision 1.2, "Determination of Total Organic Carbon and Specific UV Absorbance at 254 nm in Source Water and Drinking Water," USEPA, August 2009, EPA 600/R-09/122. Available from USEPA, Office of Research and Development.

"USEPA NERL Method 549.2" means Method 549.2, Revision 1.0, "Determination of Diquat and Paraquat in Drinking Water by Liquid-Solid Extraction and High Performance Liquid Chromatography with Ultraviolet Detection," June 1997. Available from USEPA, Office of Research and Development.

"USEPA OGWDW Methods" means one of the methods listed as available from the USEPA, Office of Ground Water and Drinking Water

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(Methods 302.0, 317.0 (rev. 2.0), 326.0 (rev. 1.0), 327.0 (rev. 1.1), 334.0, 515.4 (rev. 1.0), 524.3 (rev. 1.0), 531.2 (rev. 1.0), 552.3 (rev. 1.0), 557, 1622 (99), 1622 (01), 1622 (05), 1623 (99), 1623 (01), and 1623 (05)).
Available from NTIS; USEPA, NSCEP; or USEPA, OGWDW.

"USEPA Organic Methods" means "Methods for the Determination of Organic Compounds in Drinking Water," December 1988 (revised July 1991), ~~for (Methods 502.2, 505, 507, 508, 508A, (rev. 1.0) and 515.1, and 531.1 (rev. 4.0))~~; "Methods for the Determination of Organic Compounds in Drinking Water – Supplement I," July 1990, ~~for (Methods 506, 547, 550, and 550.1, and 551)~~; "Methods for the Determination of Organic Compounds in Drinking Water – Supplement II," August 1992, ~~for (Methods 504.1, 508.1, 515.2, 524.2, 525.2, 548.1 (rev. 1.0), 549.1, 552.1 (rev. 1.0), 552.2, and 555 (rev. 1.0))~~; and "Methods for the Determination of Organic Compounds in Drinking Water – Supplement III," August 1995, ~~for (Methods 502.2 (rev. 2.1), 504.1 (rev. 1.1), 505 (rev. 2.1), 506 (rev. 1.1), 507 (rev. 2.1), 508 (rev. 3.1), 508.1 (rev. 2.0), 515.2 (rev. 1.1), 524.2 (rev. 4.1), 525.2 (rev. 2.0), 531.1 (rev. 3.1), 551.1 (rev. 1.0), and 552.2 (rev. 1.0))~~. Available from NTIS; USEPA, NSCEP; or USEPA, EMSL.

"USEPA Organic and Inorganic Methods" means "Methods for the Determination of Organic and Inorganic Compounds in Drinking Water, Volume 1," EPA 815/R-00/014, PB2000-106981, August 2000. Available from NTIS.

"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 ~~Procedures~~ Methods" means "Radiochemistry Procedures Manual," EPA 520/5-84/006, December 1987. Available from NTIS.

"USEPA Technical Notes" means "Technical Notes on Drinking Water

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Methods," available from NTIS [and USEPA, NSCEP](#).

"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:

ALPKEM, Division of OI Analytical, P.O. Box 9010, College Station, TX 77842-9010, telephone: 979-690-1711, Internet: www.oico.com.

"Method OIA-1677 DW, Available Cyanide by Flow Injection, Ligand Exchange, and Amperometry," EPA 821/R-04/001, January 2004 (referred to as "OI Analytical Method OIA-1677"), referenced in Section 611.611.

BOARD NOTE: Also available online for download from www.epa.gov/waterscience/methods/method/cyanide/1677-2004.pdf.

APHA. American Public Health Association, 1015 Fifteenth Street NW, Washington, DC 20005 202-777-2742.

"Standard Methods for the Examination of Water and Wastewater," 17th Edition, 1989 (referred to as "Standard Methods, 17th ed."). See the methods listed separately for the same references under American Waterworks Association.

"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.

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"Standard Methods for the Examination of Water and Wastewater," 19th Edition, 1995 (referred to as "Standard Methods, 19th ed."). See the methods listed separately for the same references under American Waterworks Association.

"Standard Methods for the Examination of Water and Wastewater," 20th Edition, 1998 (referred to as "Standard Methods, 20th ed."). See the methods listed separately for the same references under American Waterworks Association.

"Standard Methods for the Examination of Water and Wastewater," 21st Edition, 2005 (referred to as "Standard Methods, 21st ed."). See the methods listed separately for the same references under American Waterworks Association.

American Society for Microbiology, 1752 N Street N.W., Washington, DC 20036, 202-737-3600:

"Evaluation of Enterolert for Enumeration of Enterococci in Recreational Waters," Applied and Environmental Microbiology, Oct. 1996, vol. 62, no. 10, p. 3881 (referred to as "Enterolert"), referenced in Section 611.802.

BOARD NOTE: At the table to 40 CFR 141.402(c)(2), USEPA approved the method as described in the above literature review. The method itself is embodied in the printed instructions to the proprietary kit available from IDEXX Laboratories, Inc. (accessible on-line and available by download from www.asm.org, as "Enterolert™ Procedure"). ASTM approved the method as "Standard Test Method for Enterococci in Water Using Enterolert™," which is available in two versions from ASTM: ASTM [Method D6503-99](#)~~D-6503-99~~ (superseded) and ASTM [Method D6503-99](#)~~D-6503-99~~. While it is more conventional to incorporate the method as presented in the kit instructions or as approved by ASTM by reference, the Board is constrained to incorporate the version that appears in the technical literature by reference, which is the version that USEPA has explicitly approved.

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AWWA. American Water Works 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), referenced in Appendix D to this Part.

"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), referenced in Section 611.720.

Method 303, Total Radioactive Strontium and Strontium 90 in Water, referenced in Section 611.720.

Method 304, Radium in Water by Precipitation, referenced in Section 611.720.

Method 305, Radium 226 by Radon in Water (Soluble, Suspended, and Total), referenced in Section 611.720.

Method 306, Tritium in Water, referenced in Section 611.720.

"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), referenced in Section 611.720.

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Method 7500-Cs B, Radioactive Cesium, Precipitation Method, referenced in Section 611.720.

Method 7500-³H B, Tritium in Water, referenced in Section 611.720.

Method 7500-I B, Radioactive Iodine, Precipitation Method, referenced in Section 611.720.

Method 7500-I C, Radioactive Iodine, Ion-Exchange Method, referenced in Section 611.720.

Method 7500-I D, Radioactive Iodine, Distillation Method, referenced in Section 611.720.

Method 7500-Ra B, Radium in Water by Precipitation, referenced in Section 611.720.

Method 7500-Ra C, Radium 226 by Radon in Water (Soluble, Suspended, and Total), referenced in Section 611.720.

Method 7500-Ra D, Radium, Sequential Precipitation Method (Proposed), referenced in Section 611.720.

Method 7500-Sr B, Total Radioactive Strontium and Strontium 90 in Water, referenced in Section 611.720.

Method 7500-U B, Uranium, Radiochemical Method (Proposed), referenced in Section 611.720.

Method 7500-U C, Uranium, Isotopic Method (Proposed), referenced in Section 611.720.

"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,

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referenced in Section 611.531.

Method 2320 B, Alkalinity, Titration Method, referenced in Section 611.611.

Method 2510 B, Conductivity, Laboratory Method, referenced in Section 611.611.

Method 2550, Temperature, Laboratory and Field Methods, referenced in Section 611.611.

Method 3111 B, Metals by Flame Atomic Absorption Spectrometry, Direct Air-Acetylene Flame Method, referenced in Sections 611.611 and 611.612.

Method 3111 D, Metals by Flame Atomic Absorption Spectrometry, Direct Nitrous Oxide-Acetylene Flame Method, referenced in Section 611.611.

Method 3112 B, Metals by Cold-Vapor Atomic Absorption Spectrometry, Cold-Vapor Atomic Absorption Spectrometric Method, referenced in Section 611.611.

Method 3113 B, Metals by Electrothermal Atomic Absorption Spectrometry, Electrothermal Atomic Absorption Spectrometric Method, referenced in Sections 611.611 and 611.612.

Method 3114 B, Metals by Hydride Generation/Atomic Absorption Spectrometry, Manual Hydride Generation/Atomic Absorption Spectrometric Method, referenced in Section 611.611.

Method 3120 B, Metals by Plasma Emission Spectroscopy, Inductively Coupled Plasma (ICP) Method, referenced in Sections 611.611 and 611.612.

Method 3500-Ca D, Calcium, EDTA Titrimetric Method, referenced in Section 611.611.

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Method 3500-Mg E, Magnesium, Calculation Method, referenced in Section 611.611.

Method 4110 B, Determination of Anions by Ion Chromatography, Ion Chromatography with Chemical Suppression of Eluent Conductivity, referenced in Section 611.611.

Method 4500-CN⁻ C, Cyanide, Total Cyanide after Distillation, referenced in Section 611.611.

Method 4500-CN⁻ E, Cyanide, Colorimetric Method, referenced in Section 611.611.

Method 4500-CN⁻ F, Cyanide, Cyanide-Selective Electrode Method, referenced in Section 611.611.

Method 4500-CN⁻ G, Cyanide, Cyanides Amenable to Chlorination after Distillation, referenced in Section 611.611.

Method 4500-Cl D, Chlorine, Amperometric Titration Method, referenced in Section 611.531.

Method 4500-Cl E, Chlorine, Low-Level Amperometric Titration Method, referenced in Section 611.531.

Method 4500-Cl F, Chlorine, DPD Ferrous Titrimetric Method, referenced in Section 611.531.

Method 4500-Cl G, Chlorine, DPD Colorimetric Method, referenced in Section 611.531.

Method 4500-Cl H, Chlorine, Syringaldazine (FACTS) Method, referenced in Section 611.531.

Method 4500-Cl I, Chlorine, Iodometric Electrode Method, referenced in Section 611.531.

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Method 4500-ClO₂ C, Chlorine Dioxide, Amperometric Method I, referenced in Section 611.531.

Method 4500-ClO₂ D, Chlorine Dioxide, DPD Method, referenced in Section 611.531.

Method 4500-ClO₂ E, Chlorine Dioxide, Amperometric Method II (Proposed), referenced in Section 611.531.

Method 4500-F⁻ B, Fluoride, Preliminary Distillation Step, referenced in Section 611.611.

Method 4500-F⁻ C, Fluoride, Ion-Selective Electrode Method, referenced in Section 611.611.

Method 4500-F⁻ D, Fluoride, SPADNS Method, referenced in Section 611.611.

Method 4500-F⁻ E, Fluoride, Complexone Method, referenced in Section 611.611.

Method 4500-H⁺ B, pH Value, Electrometric Method, referenced in Section 611.611.

Method 4500-NO₂⁻ B, Nitrogen (Nitrite), Colorimetric Method, referenced in Section 611.611.

Method 4500-NO₃⁻ D, Nitrogen (Nitrate), Nitrate Electrode Method, referenced in Section 611.611.

Method 4500-NO₃⁻ E, Nitrogen (Nitrate), Cadmium Reduction Method, referenced in Section 611.611.

Method 4500-NO₃⁻ F, Nitrogen (Nitrate), Automated Cadmium Reduction Method, referenced in Section 611.611.

Method 4500-O₃ B, Ozone (Residual) (Proposed), Indigo

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Colorimetric Method, referenced in Section 611.531.

Method 4500-P E, Phosphorus, Ascorbic Acid Method, referenced in Section 611.611.

Method 4500-P F, Phosphorus, Automated Ascorbic Acid Reduction Method, referenced in Section 611.611.

Method 4500-Si D, Silica, Molybdosilicate Method, referenced in Section 611.611.

Method 4500-Si E, Silica, Heteropoly Blue Method, referenced in Section 611.611.

Method 4500-Si F, Silica, Automated Method for Molybdate-Reactive Silica, referenced in Section 611.611.

Method 6651, Glyphosate Herbicide (Proposed), referenced in Section 611.645.

Method 7110 B, Gross Alpha and Beta Radioactivity (Total, Suspended, and Dissolved), Evaporation Method for Gross Alpha-Beta, referenced in Section 611.720.

Method 7110 C, Gross Alpha and Beta Radioactivity (Total, Suspended, and Dissolved), Coprecipitation Method for Gross Alpha Radioactivity in Drinking Water (Proposed), referenced in Section 611.720.

Method 7500-Cs B, Radioactive Cesium, Precipitation Method, referenced in Section 611.720.

Method 7500-³H B, Tritium, Liquid Scintillation Spectrometric Method, referenced in Section 611.720.

Method 7500-I B, Radioactive Iodine, Precipitation Method, referenced in Section 611.720.

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

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Method, referenced in Section 611.720.

Method 7500-I D, Radioactive Iodine, Distillation Method, referenced in Section 611.720.

Method 7500-Ra B, Radium, Precipitation Method, referenced in Section 611.720.

Method 7500-Ra C, Radium, Emanation Method, referenced in Section 611.720.

Method 7500-Ra D, Radium, Sequential Precipitation Method (Proposed), referenced in Section 611.720.

Method 7500-Sr B, Total Radioactive Strontium and Strontium 90, Precipitation Method, referenced in Section 611.720.

Method 7500-U B, Uranium, Radiochemical Method (Proposed), referenced in Section 611.720.

Method 7500-U C, Uranium, Isotopic Method (Proposed), referenced in Section 611.720.

Method 9215 B, Heterotrophic Plate Count, Pour Plate Method, referenced in Section 611.531.

Method 9221 A, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Introduction, referenced in Sections 611.526 and 611.531.

Method 9221 B, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Standard Total Coliform Fermentation Technique, referenced in Sections 611.526 and 611.531.

Method 9221 C, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Estimation of Bacterial Density, referenced in Sections 611.526 and

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611.531.

Method 9221 D, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Presence-Absence (P-A) Coliform Test, referenced in Section 611.526.

Method 9221 E, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Fecal Coliform Procedure, referenced in Sections 611.526 and 611.531.

Method 9222 A, Membrane Filter Technique for Members of the Coliform Group, Introduction, referenced in Sections 611.526 and 611.531.

Method 9222 B, Membrane Filter Technique for Members of the Coliform Group, Standard Total Coliform Membrane Filter Procedure, referenced in Sections 611.526 and 611.531.

Method 9222 C, Membrane Filter Technique for Members of the Coliform Group, Delayed-Incubation Total Coliform Procedure, referenced in Sections 611.526 and 611.531.

Method 9222 D, Membrane Filter Technique for Members of the Coliform Group, Fecal Coliform Membrane Filter Procedure, referenced in Section 611.531.

Method 9223, Chromogenic Substrate Coliform Test (Proposed) (also referred to as the variations "Autoanalysis Colilert System" and "Colisure Test"), referenced in Sections 611.526, and 611.531.

Method 9223 B, Chromogenic Substrate Coliform Test (Proposed), referenced in Section 611.1004.

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

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Method 6610, Carbamate Pesticide Method, referenced in Section 611.645.

"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, referenced in Section 611.531.

Method 2320 B, Alkalinity, Titration Method, referenced in Section 611.611.

Method 2510 B, Conductivity, Laboratory Method, referenced in Section 611.611.

Method 2550, Temperature, Laboratory, and Field Methods, referenced in Section 611.611.

Method 3111 B, Metals by Flame Atomic Absorption Spectrometry, Direct Air-Acetylene Flame Method, referenced in Sections 611.611 and 611.612.

Method 3111 D, Metals by Flame Atomic Absorption Spectrometry, Direct Nitrous Oxide-Acetylene Flame Method, referenced in Section 611.611.

Method 3112 B, Metals by Cold-Vapor Atomic Absorption Spectrometry, Cold-Vapor Atomic Absorption Spectrometric Method, referenced in Section 611.611.

Method 3113 B, Metals by Electrothermal Atomic Absorption Spectrometry, Electrothermal Atomic Absorption Spectrometric Method, referenced in Sections 611.611 and 611.612.

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

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referenced in Section 611.611.

Method 3120 B, Metals by Plasma Emission Spectroscopy, Inductively Coupled Plasma (ICP) Method, referenced in Sections 611.611 and 611.612.

Method 3500-Ca D, Calcium, EDTA Titrimetric Method, referenced in Section 611.611.

Method 3500-Mg E, Magnesium, Calculation Method, referenced in Section 611.611.

Method 4110 B, Determination of Anions by Ion Chromatography, Ion Chromatography with Chemical Suppression of Eluent Conductivity, referenced in Section 611.611.

Method 4500-Cl D, Chlorine, Amperometric Titration Method, referenced in Sections 611.381 and 611.531.

Method 4500-Cl E, Chlorine, Low-Level Amperometric Titration Method, referenced in Sections 611.381 and 611.531.

Method 4500-Cl F, Chlorine, DPD Ferrous Titrimetric Method, referenced in Sections 611.381 and 611.531.

Method 4500-Cl G, Chlorine, DPD Colorimetric Method, referenced in Sections 611.381 and 611.531.

Method 4500-Cl H, Chlorine, Syringaldazine (FACTS) Method, referenced in Sections 611.381 and 611.531.

Method 4500-Cl I, Chlorine, Iodometric Electrode Method, referenced in Sections 611.381 and 611.531.

Method 4500-ClO₂ C, Chlorine Dioxide, Amperometric Method I, referenced in Section 611.531.

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Method 4500-ClO₂ D, Chlorine Dioxide, DPD Method, referenced in Sections 611.381 and 611.531.

Method 4500-ClO₂ E, Chlorine Dioxide, Amperometric Method II, referenced in Sections 611.381 and 611.531.

Method 4500-CN⁻ C, Cyanide, Total Cyanide after Distillation, referenced in Section 611.611.

Method 4500-CN⁻ E, Cyanide, Colorimetric Method, referenced in Section 611.611.

Method 4500-CN⁻ F, Cyanide, Cyanide-Selective Electrode Method, referenced in Section 611.611.

Method 4500-CN⁻ G, Cyanide, Cyanides Amenable to Chlorination after Distillation, referenced in Section 611.611.

Method 4500-F⁻ B, Fluoride, Preliminary Distillation Step, referenced in Section 611.611.

Method 4500-F⁻ C, Fluoride, Ion-Selective Electrode Method, referenced in Section 611.611.

Method 4500-F⁻ D, Fluoride, SPADNS Method, referenced in Section 611.611.

Method 4500-F⁻ E, Fluoride, Complexone Method, referenced in Section 611.611.

Method 4500-H⁺ B, pH Value, Electrometric Method, referenced in Section 611.611.

Method 4500-NO₂⁻ B, Nitrogen (Nitrite), Colorimetric Method, referenced in Section 611.611.

Method 4500-NO₃⁻ D, Nitrogen (Nitrate), Nitrate Electrode Method, referenced in Section 611.611.

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Method 4500-NO₃⁻ E, Nitrogen (Nitrate), Cadmium Reduction Method, referenced in Section 611.611.

Method 4500-NO₃⁻ F, Nitrogen (Nitrate), Automated Cadmium Reduction Method, referenced in Section 611.611.

Method 4500-O₃ B, Ozone (Residual) (Proposed), Indigo Colorimetric Method, referenced in Section 611.531.

Method 4500-P E, Phosphorus, Ascorbic Acid Method, referenced in Section 611.611.

Method 4500-P F, Phosphorus, Automated Ascorbic Acid Reduction Method, referenced in Section 611.611.

Method 4500-Si D, Silica, Molybdosilicate Method, referenced in Section 611.611.

Method 4500-Si E, Silica, Heteropoly Blue Method, referenced in Section 611.611.

Method 4500-Si F, Silica, Automated Method for Molybdate-Reactive Silica, referenced in Section 611.611.

[Method 5310 B, TOC, Combustion-Infrared Method, referenced in Section 611.381.](#)

[Method 5310 C, TOC, Persulfate-Ultraviolet Oxidation Method, referenced in Section 611.381.](#)

[Method 5310 D, TOC, Wet-Oxidation Method, referenced in Section 611.381.](#)

Method 5910 B, UV Absorbing Organic Constituents, Ultraviolet Absorption Method, referenced in Section 611.381.

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Method 6251 B, Disinfection Byproducts: Haloacetic Acids and Trichlorophenol, Micro Liquid-Liquid Extraction Gas Chromatographic Method, referenced in Section 611.381.

Method 6610, Carbamate Pesticide Method, referenced in Section 611.645.

Method 6651, Glyphosate Herbicide (Proposed), referenced in Section 611.645.

Method 7110 B, Gross Alpha and Gross Beta Radioactivity, Evaporation Method for Gross Alpha-Beta, referenced in Section 611.720.

Method 7110 C, Gross Alpha and Beta Radioactivity (Total, Suspended, and Dissolved), Coprecipitation Method for Gross Alpha Radioactivity in Drinking Water (Proposed), referenced in Section 611.720.

Method 7120 B, Gamma-Emitting Radionuclides, Gamma Spectrometric Method, referenced in Section 611.720.

Method 7500-Cs B, Radioactive Cesium, Precipitation Method, referenced in Section 611.720.

Method 7500-³H B, Tritium, Liquid Scintillation Spectrometric Method, referenced in Section 611.720.

Method 7500-I B, Radioactive Iodine, Precipitation Method, referenced in Section 611.720.

Method 7500-I C, Radioactive Iodine, Ion-Exchange Method, referenced in Section 611.720.

Method 7500-I D, Radioactive Iodine, Distillation Method, referenced in Section 611.720.

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Method 7500-Ra B, Radium, Precipitation Method, referenced in Section 611.720.

Method 7500-Ra C, Radium, Emanation Method, referenced in Section 611.720.

Method 7500-Ra D, Radium, Sequential Precipitation Method, referenced in Section 611.720.

Method 7500-Sr B, Total Radiactive Strontium and Strontium 90, Precipitation Method, referenced in Section 611.720.

Method 7500-U B, Uranium, Radiochemical Method, referenced in Section 611.720.

Method 7500-U C, Uranium, Isotopic Method, referenced in Section 611.720.

Method 9215 B, Heterotrophic Plate Count, Pour Plate Method, referenced in Section 611.531.

Method 9221 A, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Introduction, referenced in Sections 611.526 and 611.531.

Method 9221 B, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Standard Total Coliform Fermentation Technique, referenced in Sections 611.526 and 611.531.

Method 9221 C, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Estimation of Bacterial Density, referenced in Sections 611.526 and 611.531.

Method 9221 D, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Presence-Absence (P-A) Coliform Test, referenced in Section 611.526.

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Method 9221 E, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Fecal Coliform Procedure, referenced in Sections 611.526 and 611.531.

Method 9222 A, Membrane Filter Technique for Members of the Coliform Group, Introduction, referenced in Sections 611.526 and 611.531.

Method 9222 B, Membrane Filter Technique for Members of the Coliform Group, Standard Total Coliform Membrane Filter Procedure, referenced in Sections 611.526 and 611.531.

Method 9222 C, Membrane Filter Technique for Members of the Coliform Group, Delayed-Incubation Total Coliform Procedure, referenced in Sections 611.526 and 611.531.

Method 9222 D, Membrane Filter Technique for Members of the Coliform Group, Fecal Coliform Membrane Filter Procedure, referenced in Section 611.531.

Method 9222 G, Membrane Filter Technique for Members of the Coliform Group, MF Partition Procedures, referenced in Section 611.526.

Method 9223, Chromogenic Substrate Coliform Test (also referred to as the variations "Autoanalysis Colilert System" and "Colisure Test"), referenced in Sections 611.526, and 611.531.

Method 9223 B, Chromogenic Substrate Coliform Test (Proposed), referenced in Section 611.1004.

"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,

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referenced in Section 611.381.

Method 5310 C, TOC, Persulfate-Ultraviolet Oxidation Method, referenced in Section 611.381.

Method 5310 D, TOC, Wet-Oxidation Method, referenced in Section 611.381.

"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, referenced in Section 611.531.

Method 2320 B, Alkalinity, Titration Method, referenced in Section 611.611.

Method 2510 B, Conductivity, Laboratory Method, referenced in Section 611.611.

Method 2550, Temperature, Laboratory, and Field Methods, referenced in Section 611.611.

Method 3120 B, Metals by Plasma Emission Spectroscopy, Inductively Coupled Plasma (ICP) Method, referenced in Sections 611.611 and 611.612.

Method 3500-Ca B, Calcium, EDTA Titrimetric Method, referenced in Section 611.611.

Method 3500-Mg B, Magnesium, EDTA Titrimetric Method, referenced in Section 611.611.

Method 4110 B, Determination of Anions by Ion Chromatography, Ion Chromatography with Chemical Suppression of Eluent Conductivity, referenced in Section 611.611.

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Method 4500-CN⁻ C, Cyanide, Total Cyanide after Distillation, referenced in Section 611.611.

Method 4500-CN⁻ E, Cyanide, Colorimetric Method, referenced in Section 611.611.

Method 4500-CN⁻ F, Cyanide, Cyanide-Selective Electrode Method, referenced in Section 611.611.

Method 4500-CN⁻ G, Cyanide, Cyanides Amenable to Chlorination after Distillation, referenced in Section 611.611.

Method 4500-Cl D, Chlorine, Amperometric Titration Method, referenced in Section 611.531.

Method 4500-Cl E, Chlorine, Low-Level Amperometric Titration Method, referenced in Section 611.531.

Method 4500-Cl F, Chlorine, DPD Ferrous Titrimetric Method, referenced in Section 611.531.

Method 4500-Cl G, Chlorine, DPD Colorimetric Method, referenced in Section 611.531.

Method 4500-Cl H, Chlorine, Syringaldazine (FACTS) Method, referenced in Section 611.531.

Method 4500-Cl I, Chlorine, Iodometric Electrode Method, referenced in Section 611.531.

Method 4500-ClO₂ C, Chlorine Dioxide, Amperometric Method I, referenced in Section 611.531.

Method 4500-ClO₂ D, Chlorine Dioxide, DPD Method, referenced in Section 611.531.

Method 4500-ClO₂ E, Chlorine Dioxide, Amperometric Method II (Proposed), referenced in Section 611.531.

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Method 4500-F⁻ B, Fluoride, Preliminary Distillation Step, referenced in Section 611.611.

Method 4500-F⁻ C, Fluoride, Ion-Selective Electrode Method, referenced in Section 611.611.

Method 4500-F⁻ D, Fluoride, SPADNS Method, referenced in Section 611.611.

Method 4500-F⁻ E, Fluoride, Complexone Method, referenced in Section 611.611.

Method 4500-H⁺ B, pH Value, Electrometric Method, referenced in Section 611.611.

Method 4500-NO₂⁻ B, Nitrogen (Nitrite), Colorimetric Method, referenced in Section 611.611.

Method 4500-NO₃⁻ D, Nitrogen (Nitrate), Nitrate Electrode Method, referenced in Section 611.611.

Method 4500-NO₃⁻ E, Nitrogen (Nitrate), Cadmium Reduction Method, referenced in Section 611.611.

Method 4500-NO₃⁻ F, Nitrogen (Nitrate), Automated Cadmium Reduction Method, referenced in Section 611.611.

Method 4500-O₃ B, Ozone (Residual) (Proposed), Indigo Colorimetric Method, referenced in Section 611.531.

Method 4500-P E, Phosphorus, Ascorbic Acid Method, referenced in Section 611.611.

Method 4500-P F, Phosphorus, Automated Ascorbic Acid Reduction Method, referenced in Section 611.611.

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Method 4500-Si C, Silica, Molybdosilicate Method, referenced in Section 611.611.

Method 4500-Si D, Silica, Heteropoly Blue Method, referenced in Section 611.611.

Method 4500-Si E, Silica, Automated Method for Molybdate-Reactive Silica, referenced in Section 611.611.

Method 5310 B, TOC, Combustion-Infrared Method, referenced in Section 611.381.

Method 5310 C, TOC, Persulfate-Ultraviolet Oxidation Method, referenced in Section 611.381.

Method 5310 D, TOC, Wet-Oxidation Method, referenced in Section 611.381.

Method 5910 B, UV-Absorbing Organic Constituents, Ultraviolet Absorption Method, referenced in Sections 611.381 and 611.382.

Method 6251, Disinfection By-Products: Haloacetic Acids and Trichlorophenol, referenced in Section 611.381.

Method 6610, Carbamate Pesticide Method, referenced in Section 611.645.

Method 6651, Glyphosate Herbicide (Proposed), referenced in Section 611.645.

Method 7110 B, Gross Alpha and Gross Beta Radioactivity, Evaporation Method for Gross Alpha-Beta, referenced in Section 611.720.

Method 7110 C, Gross Alpha and Beta Radioactivity (Total, Suspended, and Dissolved), Coprecipitation Method for Gross Alpha Radioactivity in Drinking Water (Proposed), referenced in Section 611.720.

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Method 7120, Gamma-Emitting Radionuclides, referenced in Section 611.720.

Method 7500-Cs B, Radioactive Cesium, Precipitation Method, referenced in Section 611.720.

Method 7500-³H B, Tritium, Liquid Scintillation Spectrometric Method, referenced in Section 611.720.

Method 7500-I B, Radioactive Iodine, Precipitation Method, referenced in Section 611.720.

Method 7500-I C, Radioactive Iodine, Ion-Exchange Method, referenced in Section 611.720.

Method 7500-I D, Radioactive Iodine, Distillation Method, referenced in Section 611.720.

Method 7500-Ra B, Radium, Precipitation Method, referenced in Section 611.720.

Method 7500-Ra C, Radium, Emanation Method, referenced in Section 611.720.

Method 7500-Ra D, Radium, Sequential Precipitation Method, referenced in Section 611.720.

Method 7500-Sr B, Total Radioactive Strontium and Strontium 90, Precipitation Method, referenced in Section 611.720.

Method 7500-U B, Uranium, Radiochemical Method, referenced in Section 611.720.

Method 7500-U C, Uranium, Isotopic Method, referenced in Section 611.720.

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Method 9215 B, Heterotrophic Plate Count, Pour Plate Method, referenced in Section 611.531.

Method 9221 A, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Introduction, referenced in Sections 611.526 and 611.531.

Method 9221 B, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Standard Total Coliform Fermentation Technique, referenced in Sections 611.526 and 611.531.

Method 9221 C, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Estimation of Bacterial Density, referenced in Sections 611.526 and 611.531.

Method 9221 D, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Presence-Absence (P-A) Coliform Test, referenced in Sections 611.526.

Method 9221 E, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Fecal Coliform Procedure, referenced in Sections 611.526 and 611.531.

Method 9221 F, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Escherichia Coli Procedure (Proposed), referenced in Section 611.802.

Method 9222 A, Membrane Filter Technique for Members of the Coliform Group, Introduction, referenced in Sections 611.526 and 611.531.

Method 9222 B, Membrane Filter Technique for Members of the Coliform Group, Standard Total Coliform Membrane Filter Procedure, referenced in Sections 611.526 and 611.531.

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Method 9222 C, Membrane Filter Technique for Members of the Coliform Group, Delayed-Incubation Total Coliform Procedure, referenced in Sections 611.526 and 611.531.

Method 9222 D, Membrane Filter Technique for Members of the Coliform Group, Fecal Coliform Membrane Filter Procedure, referenced in Section 611.531.

Method 9222 G, Membrane Filter Technique for Members of the Coliform Group, MF Partition Procedures, referenced in Section 611.526.

Method 9223, Chromogenic Substrate Coliform Test (also referred to as the variations "Autoanalysis Colilert System" and "Colisure Test"), referenced in Sections 611.526 ~~and~~ 611.531.

Method 9223 B, Chromogenic Substrate Coliform Test (also referred to as the variations "Autoanalysis Colilert System" and "Colisure Test"), referenced in Sections ~~611.526~~, 611.802, and 611.1004.

Method 9230 B, Fecal Streptococcus and Enterococcus Groups, Multiple Tube Techniques, referenced in Section 611.802.

Method 9230 C, Fecal Streptococcus and Enterococcus Groups, Membrane Filter Techniques, referenced in Section 611.802.

"Standard Methods for the Examination of Water and Wastewater," 21st Edition, 2005 (referred to as "Standard Methods, 21st ed.").

Method 2130 B, Turbidity, Nephelometric Method, referenced in Section 611.531.

Method 2320 B, Alkalinity, Titration Method, referenced in Section 611.611.

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Method 2510 B, Conductivity, Laboratory Method, referenced in Section 611.611.

Method 2550, Temperature, Laboratory, and Field Methods, referenced in Section 611.611.

Method 3111 B, Metals by Flame Atomic Absorption Spectrometry, Direct Air-Acetylene Flame Method, referenced in Sections 611.611 and 611.612.

Method 3111 D, Metals by Flame Atomic Absorption Spectrometry, Direct Nitrous Oxide-Acetylene Flame Method, referenced in Section 611.611.

Method 3112 B, Metals by Cold-Vapor Atomic Absorption Spectrometry, Cold-Vapor Atomic Absorption Spectrometric Method, referenced in Section 611.611.

Method 3113 B, Metals by Electrothermal Atomic Absorption Spectrometry, Electrothermal Atomic Absorption Spectrometric Method, referenced in Sections 611.611 and 611.612.

Method 3114 B, Metals by Hydride Generation/Atomic Absorption Spectrometry, Manual Hydride Generation/Atomic Absorption Spectrometric Method, referenced in Section 611.611.

Method 3120 B, Metals by Plasma Emission Spectroscopy, Inductively Coupled Plasma (ICP) Method, referenced in Sections 611.611 and 611.612.

Method 3500-Ca B, Calcium, EDTA Titrimetric Method, referenced in Section 611.611.

Method 3500-Ca D, Calcium, EDTA Titrimetric Method, referenced in Section 611.611.

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Method 3500-Mg B, Magnesium, Calculation Method, referenced in Section 611.611.

Method 4110 B, Determination of Anions by Ion Chromatography, Ion Chromatography with Chemical Suppression of Eluent Conductivity, referenced in Section 611.611.

Method 4500-Cl D, Chlorine, Amperometric Titration Method, referenced in Section 611.381.

Method 4500-Cl E, Chlorine, Low-Level Amperometric Titration Method, referenced in Section 611.381.

Method 4500-Cl F, Chlorine, DPD Ferrous Titrimetric Method, referenced in Section 611.381.

Method 4500-Cl G, Chlorine, DPD Colorimetric Method, referenced in Section 611.381.

Method 4500-Cl H, Chlorine, Syringaldazine (FACTS) Method, referenced in Section 611.381.

Method 4500-Cl I, Chlorine, Iodometric Electrode Method, referenced in Section 611.381.

Method 4500-ClO₂ C, Chlorine Dioxide, Amperometric Method I, referenced in Section 611.531.

Method 4500-ClO₂ E, Chlorine Dioxide, Amperometric Method II (Proposed), referenced in Section 611.381.

Method 4500-CN⁻ E, Cyanide, Colorimetric Method, referenced in Section 611.611.

Method 4500-CN⁻ F, Cyanide, Cyanide-Selective Electrode Method, referenced in Section 611.611.

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Method 4500-CN⁻ G, Cyanide, Cyanides Amenable to Chlorination after Distillation, referenced in Section 611.611.

Method 4500-F⁻ B, Fluoride, Preliminary Distillation Step, referenced in Section 611.611.

Method 4500-F⁻ C, Fluoride, Ion-Selective Electrode Method, referenced in Section 611.611.

Method 4500-F⁻ D, Fluoride, SPADNS Method, referenced in Section 611.611.

Method 4500-F⁻ E, Fluoride, Complexone Method, referenced in Section 611.611.

Method 4500-H⁺ B, pH Value, Electrometric Method, referenced in Section 611.611.

Method 4500-NO₂⁻ B, Nitrogen (Nitrite), Colorimetric Method, referenced in Section 611.611.

Method 4500-NO₃⁻ D, Nitrogen (Nitrate), Nitrate Electrode Method, referenced in Section 611.611.

Method 4500-NO₃⁻ E, Nitrogen (Nitrate), Cadmium Reduction Method, referenced in Section 611.611.

Method 4500-NO₃⁻ F, Nitrogen (Nitrate), Automated Cadmium Reduction Method, referenced in Section 611.611.

Method 4500-O₃ B, Ozone (Residual) (Proposed), Indigo Colorimetric Method, referenced in Section 611.531.

Method 4500-P E, Phosphorus, Ascorbic Acid Method, referenced in Section 611.611.

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Method 4500-P F, Phosphorus, Automated Ascorbic Acid Reduction Method, referenced in Section 611.611.

Method 4500-SiO₂ C, Silica, Molybdosilicate Method, referenced in Section 611.611.

Method 4500-SiO₂ D, Silica, Heteropoly Blue Method, referenced in Section 611.611.

Method 4500-SiO₂ E, Silica, Automated Method for Molybdate-Reactive Silica, referenced in Section 611.611.

Method 5310 B, TOC, Combustion-Infrared Method, referenced in Section 611.381.

Method 5310 C, TOC, Persulfate-Ultraviolet Oxidation Method, referenced in Section 611.381.

Method 5310 D, TOC, Wet-Oxidation Method, referenced in Section 611.381.

Method 5910 B, UV-Absorbing Organic Constituents, Ultraviolet Absorption Method, referenced in Sections 611.381 and 611.382.

Method 6251, Disinfection By-Products: Haloacetic Acids and Trichlorophenol, referenced in Section 611.381.

Method 6610, Carbamate Pesticide Method, referenced in Section 611.645.

[Method 6640 B, Acidic Herbicide Compounds, Micro Liquid-Liquid Extraction Gas Chromatographic Method, referenced in Section 611.645.](#)

Method 7110 B, Gross Alpha and Gross Beta Radioactivity, Evaporation Method for Gross Alpha-Beta, referenced in Section 611.720.

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Method 7110 C, Gross Alpha and Beta Radioactivity (Total, Suspended, and Dissolved), Coprecipitation Method for Gross Alpha Radioactivity in Drinking Water (Proposed), referenced in Section 611.720.

Method 7120, Gamma-Emitting Radionuclides, referenced in Section 611.720.

Method 7500-Cs B, Radioactive Cesium, Precipitation Method, referenced in Section 611.720.

Method 7500-³H B, Tritium, Liquid Scintillation Spectrometric Method, referenced in Section 611.720.

Method 7500-I B, Radioactive Iodine, Precipitation Method, referenced in Section 611.720.

Method 7500-I C, Radioactive Iodine, Ion-Exchange Method, referenced in Section 611.720.

Method 7500-I D, Radioactive Iodine, Distillation Method, referenced in Section 611.720.

Method 7500-Ra B, Radium, Precipitation Method, referenced in Section 611.720.

Method 7500-Ra C, Radium, Emanation Method, referenced in Section 611.720.

Method 7500-Ra D, Radium, Sequential Precipitation Method, referenced in Section 611.720.

Method 7500-Sr B, Total Radioactive Strontium and Strontium 90, Precipitation Method, referenced in Section 611.720.

Method 7500-U B, Uranium, Radiochemical Method, referenced in Section 611.720.

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Method 7500-U C, Uranium, Isotopic Method, referenced in Section 611.720.

Method 9221 A, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Introduction, referenced in Sections 611.526 and 611.531.

Method 9221 B, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Standard Total Coliform Fermentation Technique, referenced in Sections 611.526 and 611.531.

Method 9221 C, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Estimation of Bacterial Density, referenced in Sections 611.526 and 611.531.

Method 9221 D, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Presence-Absence (P-A) Coliform Test, referenced in Section 611.526.

Method 9221 E, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Fecal Coliform Procedure, referenced in Sections 611.526 and 611.531.

Method 9221 F, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Escherichia Coli Procedure (Proposed), referenced in Section 611.802.

Method 9222 A, Membrane Filter Technique for Members of the Coliform Group, Introduction, referenced in Sections 611.526 and 611.531.

Method 9222 B, Membrane Filter Technique for Members of the Coliform Group, Standard Total Coliform Membrane Filter Procedure, referenced in Sections 611.526 and 611.531.

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Method 9222 C, Membrane Filter Technique for Members of the Coliform Group, Delayed-Incubation Total Coliform Procedure, referenced in Sections 611.526 and 611.531.

Method 9222 D, Membrane Filter Technique for Members of the Coliform Group, Fecal Coliform Membrane Filter Procedure, referenced in Section 611.531.

Method 9222 G, Membrane Filter Technique for Members of the Coliform Group, MF Partition Procedures, referenced in Section 611.526.

Method 9223, Chromogenic Substrate Coliform Test (also referred to as the variations "Autoanalysis Colilert System" and "Colisure Test"), referenced in Sections 611.526 and 611.531.

Method 9223 B, Chromogenic Substrate Coliform Test (also referred to as the variations "Autoanalysis Colilert System" and "Colisure Test"), referenced in Sections [611.526](#), 611.802, and 611.1004.

BOARD NOTE: See the [Board note appended to Standard Methods Online in this Section about methods that appear in Standard Methods, 21st ed. which USEPA has cited as available from Standard Methods Online.](#)

BOARD NOTE: Individual Methods from Standard Methods are available online [from Standard Methods Online at www.standardmethods.org.](#)

Analytical Technology, Inc. ATI Orion, 529 Main Street, Boston, MA 02129.

Technical Bulletin 601, "Standard Method of Testing for Nitrate in Drinking Water," July, 1994, PN 221890-001 (referred to as "Technical Bulletin 601"), referenced in Section 611.611.

ASTM. American Society for Testing and Materials, 100 Barr Harbor

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Drive, West Conshohocken, PA 19428-2959 (610-832-9585).

ASTM Method D511-93 A and B, "Standard Test Methods for Calcium and Magnesium in Water," "Test Method A – Complexometric Titration" & "Test Method B – Atomic Absorption Spectrophotometric," approved 1993, referenced in Section 611.611.

ASTM Method D511-03 A and B, "Standard Test Methods for Calcium and Magnesium in Water," "Test Method A – Complexometric Titration" & "Test Method B – Atomic Absorption Spectrophotometric," approved 2003, referenced in Section 611.611.

[ASTM Method D511-09 A and B, "Standard Test Methods for Calcium and Magnesium in Water," "Test Method A – Complexometric Titration" & "Test Method B – Atomic Absorption Spectrophotometric," approved 2009, referenced in Section 611.611.](#)

ASTM Method D515-88 A, "Standard Test Methods for Phosphorus in Water," "Test Method A— Colorimetric Ascorbic Acid Reduction," approved August 19, 1988, referenced in Section 611.611.

ASTM Method D859-94, "Standard Test Method for Silica in Water," approved 1994, referenced in Section 611.611.

ASTM Method D859-00, "Standard Test Method for Silica in Water," approved 2000, referenced in Section 611.611.

ASTM Method D859-05, "Standard Test Method for Silica in Water," approved 2005, referenced in Section 611.611.

ASTM Method D1067-92 B, "Standard Test Methods for Acidity or Alkalinity in Water," "Test Method B – Electrometric or Color-Change Titration," approved May 15, 1992, referenced in Section 611.611.

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ASTM Method D1067-02 B, "Standard Test Methods for Acidity or Alkalinity in Water," "Test Method B – Electrometric or Color-Change Titration," approved in 2002, referenced in Section 611.611.

ASTM Method D1125-95 (1999) A, "Standard Test Methods for Electrical Conductivity and Resistivity of Water," "Test Method A – Field and Routine Laboratory Measurement of Static (Non-Flowing) Samples," approved 1995, reapproved 1999, referenced in Section 611.611.

ASTM Method D1179-93 B, "Standard Test Methods for Fluoride in Water," "Test Method B – Ion Selective Electrode," approved 1993, referenced in Section 611.611.

ASTM Method D1179-99 B, "Standard Test Methods for Fluoride in Water," "Test Method B – Ion Selective Electrode," approved 1999, referenced in Section 611.611.

ASTM Method D1179-04 B, "Standard Test Methods for Fluoride in Water," "Test Method B – Ion Selective Electrode," approved 2004, referenced in Section 611.611.

ASTM Method D1253-86, "Standard Test Method for Residual Chlorine in Water," reapproved 1992, referenced in Section 611.381.

ASTM Method D1253-96, "Standard Test Method for Residual Chlorine in Water," ~~approved~~reapproved 1996, referenced in Section 611.381.

ASTM Method D1253-03, "Standard Test Method for Residual Chlorine in Water," ~~approved~~reapproved 2003, referenced in Sections 611.381 and 611.531.

ASTM Method D1253-08, "Standard Test Method for Residual Chlorine in Water," approved 2008, referenced in Sections 611.381 and 611.531.

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ASTM Method D1293-95 A or B, "Standard Test Methods for pH of Water," "Test Method A – Precise Laboratory Measurement" & "Test Method B – Routine or Continuous Measurement," approved 1995, referenced in Section 611.611.

ASTM Method D1293-99 A or B, "Standard Test Methods for pH of Water," "Test Method A – Precise Laboratory Measurement" & "Test Method B – Routine or Continuous Measurement," approved 1999, referenced in Section 611.611.

ASTM Method D1688-95 A or C, "Standard Test Methods for Copper in Water," "Test Method A – Atomic Absorption, Direct" & "Test Method C – Atomic Absorption, Graphite Furnace," approved 1995, referenced in Section 611.611.

ASTM Method D1688-02 A or C, "Standard Test Methods for Copper in Water," "Test Method A – Atomic Absorption, Direct" & "Test Method C – Atomic Absorption, Graphite Furnace," approved 2002, referenced in Section 611.611.

[ASTM Method D1688-07 A or C, "Standard Test Methods for Copper in Water," "Test Method A – Atomic Absorption, Direct" & "Test Method C – Atomic Absorption, Graphite Furnace," approved 2007, referenced in Section 611.611.](#)

ASTM Method D2036-98 A or B, "Standard Test Methods for Cyanide in Water," "Test Method A – Total Cyanides after Distillation" & "Test Method B – Cyanides Amenable to Chlorination by Difference," approved 1998, referenced in Section 611.611.

ASTM Method D2036-06 A or B, "Standard Test Methods for Cyanide in Water," "Test Method A – Total Cyanides after Distillation" & "Test Method B – Cyanides Amenable to Chlorination by Difference," approved 2006, referenced in Section 611.611.

ASTM Method D2459-72, "Standard Test Method for Gamma Spectrometry in Water," approved July 28, 1972, discontinued

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1988, referenced in Section 611.720.

ASTM Method D2460-90, "Standard Test Method for Radionuclides of Radium in Water," approved 1990, referenced in Section 611.720.

ASTM Method D2460-07, "Standard Test Method for Radionuclides of Radium in Water," approved 2007, referenced in Section 611.720.

ASTM Method D2907-91, "Standard Test Methods for Microquantities of Uranium in Water by Fluorometry," "Test Method A – Direct Fluorometric" & "Test Method B – Extraction," approved June 15, 1991, referenced in Section 611.720.

ASTM Method D2972-97 B or C, "Standard Test Methods for Arsenic in Water," "Test Method B – Atomic Absorption, Hydride Generation" & "Test Method C – Atomic Absorption, Graphite Furnace," approved 1997, referenced in Section 611.611.

ASTM Method D2972-03 B or C, "Standard Test Methods for Arsenic in Water," "Test Method B – Atomic Absorption, Hydride Generation" & "Test Method C – Atomic Absorption, Graphite Furnace," approved 2003, referenced in Section 611.611.

ASTM Method D2972-08 B or C, "Standard Test Methods for Arsenic in Water," "Test Method B – Atomic Absorption, Hydride Generation" & "Test Method C – Atomic Absorption, Graphite Furnace," approved 2008, referenced in Section 611.611.

ASTM Method D3223-97, "Standard Test Method for Total Mercury in Water," approved 1997, referenced in Section 611.611.

ASTM Method D3223-02, "Standard Test Method for Total Mercury in Water," approved 2002, referenced in Section 611.611.

ASTM Method ~~D3454-97~~D3454-91, "Standard Test Method for Radium-226 in Water," approved ~~1997~~1991, referenced in Section

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611.720.

[ASTM Method D3454-05, "Standard Test Method for Radium-226 in Water," approved 2005, referenced in Section 611.720.](#)

ASTM Method D3559-96 D, "Standard Test Methods for Lead in Water," "Test Method D – Atomic Absorption, Graphite Furnace," approved August 6, 1990, referenced in Section 611.611.

ASTM Method D3559-03 D, "Standard Test Methods for Lead in Water," "Test Method D – Atomic Absorption, Graphite Furnace," approved 2003, referenced in Section 611.611.

[ASTM Method D3559-08 D, "Standard Test Methods for Lead in Water," "Test Method D – Atomic Absorption, Graphite Furnace," approved 2008, referenced in Section 611.611.](#)

ASTM Method D3645-97 B, "Standard Test Methods for Beryllium in Water," "Method B – Atomic Absorption, Graphite Furnace," approved 1997, referenced in Section 611.611.

ASTM Method D3645-03 B, "Standard Test Methods for Beryllium in Water," "Method B – Atomic Absorption, Graphite Furnace," approved 2003, referenced in Section 611.611.

[ASTM Method D3645-08 B, "Standard Test Methods for Beryllium in Water," "Method B – Atomic Absorption, Graphite Furnace," approved 2008, referenced in Section 611.611.](#)

ASTM Method D3649-91, "Standard Test Method for High-Resolution Gamma-Ray Spectrometry of Water," approved 1991, referenced in Section 611.720.

ASTM Method D3649-98a, "Standard Test Method for High-Resolution Gamma-Ray Spectrometry of Water," approved 1998, referenced in Section 611.720.

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[ASTM Method D3649-06, "Standard Test Method for High-Resolution Gamma-Ray Spectrometry of Water," approved 2006, referenced in Section 611.720.](#)

ASTM Method D3697-92, "Standard Test Method for Antimony in Water," approved June 15, 1992, referenced in Section 611.611.

ASTM Method D3697-02, "Standard Test Method for Antimony in Water," approved 2002, referenced in Section 611.611.

[ASTM Method D3697-07, "Standard Test Method for Antimony in Water," approved 2007, referenced in Section 611.611.](#)

ASTM Method D3859-98 A, "Standard Test Methods for Selenium in Water," "Method A – Atomic Absorption, Hydride Method," approved 1998, referenced in Section 611.611.

ASTM Method D3859-03 A, "Standard Test Methods for Selenium in Water," "Method A – Atomic Absorption, Hydride Method," approved 2003, referenced in Section 611.611.

[ASTM Method D3859-08 A, "Standard Test Methods for Selenium in Water," "Method A – Atomic Absorption, Hydride Method" & "Method B – Atomic Absorption, Graphite Furnace," approved 2008, referenced in Section 611.611.](#)

ASTM Method D3867-90 A and B, "Standard Test Methods for Nitrite-Nitrate in Water," "Test Method A – Automated Cadmium Reduction" & "Test Method B – Manual Cadmium Reduction," approved January 10, 1990, referenced in Section 611.611.

ASTM Method D3972-90, "Standard Test Method for Isotopic Uranium in Water by Radiochemistry," approved 1990, referenced in Section 611.720.

ASTM Method D3972-02, "Standard Test Method for Isotopic Uranium in Water by Radiochemistry," approved 2002, referenced in Section 611.720.

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ASTM Method D4107-91, "Standard Test Method for Tritium in Drinking Water," approved 1991, referenced in Section 611.720.

ASTM Method D4107-98, "Standard Test Method for Tritium in Drinking Water," approved 1998 (reapproved 2002), referenced in Section 611.720.

ASTM Method D4107-08, "Standard Test Method for Tritium in Drinking Water," approved 2008 (reapproved 2002), referenced in Section 611.720.

ASTM Method D4327-97, "Standard Test Method for Anions in Water by Ion Chromatography," approved 1997, referenced in Section 611.611.

ASTM Method D4327-03, "Standard Test Method for Anions in Water by Ion Chromatography," approved 2003, referenced in Section 611.611.

ASTM Method ~~D4785-93~~~~D4785-88~~, "Standard Test Method for Low-Level Iodine-131 in Water," approved ~~1993~~~~1988~~, referenced in Section 611.720.

ASTM Method ~~D4785-98~~~~D4785-00a~~, "Standard Test Method for Low-Level Iodine-131 in Water," approved ~~1998~~~~2000~~, referenced in Section 611.720.

ASTM Method D4785-08, "Standard Test Method for Low-Level Iodine-131 in Water," approved 2008, referenced in Section 611.720.

ASTM Method ~~D5174-97~~~~D5174-91~~, "Standard Test Method for Trace Uranium in Water by Pulsed-Laser Phosphorimetry," approved ~~1997~~~~1991~~, referenced in Section 611.720.

ASTM Method D5174-02, "Standard Test Method for Trace Uranium in Water by Pulsed-Laser Phosphorimetry," approved 2002, referenced in Section 611.720.

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[ASTM Method D5174-07, "Standard Test Method for Trace Uranium in Water by Pulsed-Laser Phosphorimetry," approved 2007, referenced in Section 611.720.](#)

ASTM Method D5317-93, "Standard Test Method for Determination of Chlorinated Organic Acid Compounds in Water by Gas Chromatography with an Electron Capture Detector," approved 1993, referenced in Section 611.645.

ASTM Method D5317-98, "Standard Test Method for Determination of Chlorinated Organic Acid Compounds in Water by Gas Chromatography with an Electron Capture Detector," approved 1998 (reapproved 2003), referenced in Section 611.645.

ASTM Method D5673-03, "Standard Test Method for Elements in Water by Inductively Coupled Plasma – Mass Spectrometry," approved 2003, referenced in Section 611.720.

ASTM Method D5673-05, "Standard Test Method for Elements in Water by Inductively Coupled Plasma – Mass Spectrometry," approved 2005, referenced in Section 611.720.

ASTM Method D6508-00(2005), "Standard Test Method for Determination of Dissolved Inorganic Anions in Aqueous Matrices Using Capillary Ion Electrophoresis and Chromate Electrolyte," approved 2000 (revised 2005), referenced in Section 611.611.

ASTM Method D6581-00, "Standard Test Method for Bromate, Bromide, Chlorate, and Chlorite in Drinking Water by Chemically Suppressed Ion Chromatography," approved 2000, referenced in Section 611.381.

[ASTM Method D6581-08 A and B, "Standard Test Method for Bromate, Bromide, Chlorate, and Chlorite in Drinking Water by Suppressed Ion Chromatography," "Test Method A – Chemically Suppressed Ion Chromatography" & "Test Method B – Electrolytically Suppressed Ion Chromatography," approved 2008, referenced in Section 611.381.](#)

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ASTM Method D6919-03, "Standard Test Method for Determination of Dissolved Alkali and Alkaline Earth Cations and Ammonium in Water and Wastewater by Ion Chromatography," approved 2003, referenced in Section 611.611.

ASTM Method D6888-04, "Standard Test Method for Available Cyanide with Ligand Displacement and Flow Injection Analysis (FIA) Utilizing Gas Diffusion Separation and Amperometric Detection," approved 2004, referenced in Section 611.611.

Bran & Luebbe, 1025 Busch Parkway, Buffalo Grove, IL 60089.

"Fluoride in Water and Wastewater," Industrial Method #129-71W, December 1972 (referred to as "Technicon Methods, Method #129-71W"). See 40 CFR 141.23(k)(1), footnote 11 ~~(2010)~~(2007), referenced in Section 611.611.

"Fluoride in Water and Wastewater," #380-75WE, February 1976 (referred to as "Technicon Methods, Method #380-75WE"). See 40 CFR 141.23(k)(1), footnote 11 ~~(2010)~~(2007), referenced in Section 611.611.

Charm Sciences, Inc., 659 Andover St., Lawrence, MA 01843-1032:

"Charm E*Colite Presence/Absence Test for Detection and Identification of Coliform Bacteria and Escherichia coli in Drinking Water," January 9, 1998 (referred to as "E*Colite Test"), referenced in Section 611.802 (also available from USEPA, Water Resource Center).

CPI International, Inc., 5580 Skylane Blvd., Santa Rosa, CA 95403
(800-878-7654 /fax: 707-545-7901/Internet address:
www.cpiinternational.com).

"Colitag® Product as a Test for Detection and Identification of Coliforms and E. coli Bacteria in Drinking Water and Source Water as Required in National Primary Drinking Water Regulations," August 2001, referenced in Section 611.526.

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"Modified Colitag™ Test Method for Simultaneous Detection of E. coli and other Total Coliforms in Water (ATP D05-0035)," August 2009 (referred to as "Modified Colitag™ Method"), referenced in Sections 611.526 and 611.802. See also NEMI.

EMD Chemicals Inc. (an affiliate of Merck KGaA, Darmstadt, Germany), 480 S. Democrat Road, Gibbstown, NJ 08027-1297. (800-222-0342/e-mail:adellenbusch@emscience.com).

"Chromocult® Coliform Agar Presence/Absence Membrane Filter Test Method for Detection and Identification of Coliform Bacteria and Escherichia coli in Finished Waters," November 2000 referred to as "Chromocult® Method, Version 1.0, referenced in Sections 611.526 and 611.802.

"Readycult Coliforms 100 Presence/Absence Test for Detection and Identification of Coliform Bacteria and Escherichia coli in Finished Waters," November 2000 (referred to as Readycult® 2000), Version 1.0, referenced in Section 611.526.

"Readycult Coliforms 100 Presence/Absence Test for Detection and Identification of Coliform Bacteria and Escherichia coli in Finished Waters," Version 1.1, January 2007 (referred to as Readycult® 2007), referenced in Section 611.802.

~~ERDA Health and Safety Laboratory, New York, NY.~~

~~HASL Procedure Manual, HASL 300, 1973. See 40 CFR 141.25(b)(2) (2007), referenced in Section 611.720.~~

Georgia Tech Research Institute, Robert Rosson, 925 Dalney Road, Atlanta, GA 30332 (404-407-6339).

"The Determination of Radium-226 and Radium-228 in Drinking Water by Gamma-ray Spectrometry Using HPGE or Ge(Li) Detectors," Revision 1.2, December 2004 (called "Georgia Radium Method"), referenced in Section 611.720.

Great Lakes Instruments, Inc., 8855 North 55th Street, Milwaukee, WI

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53223.

GLI Method 2, "Turbidity," Nov. 2, 1992, referenced in Section 611.531.

[H&E Testing Laboratory, 221 State Street, Augusta, ME 04333 \(207-287-2727\).](#)

[Method ME355.01, Revision 1, "Determination of Cyanide in Drinking Water by GC/MS Headspace Analysis," May 2009, referenced in Section 611.611. See also NEMI.](#)

The Hach Company, P.O. Box 389, Loveland, CO 80539-0389 (800-227-4224).

"Lead in Drinking Water by Differential Pulse Anodic Stripping Voltammetry," Method 1001, August 1999, referenced in Section 611.611.

"Determination of Turbidity by Laser Nephelometry," January 2000, Revision 2.0 (referred to as "Hach FilterTrak Method 10133"), referenced in Section 611.531.

"Total Coliforms and E. coli Membrane Filtration Method with m-ColiBlue24® Broth," Method No. 10029, Revision 2, August 17, 1999 (referred to as "m-ColiBlue24 Test"), referenced in Section 611.802 (also available from USEPA, Water Resource Center).

IDEXX Laboratories, Inc., One IDEXX Drive, Westbrook, Maine 04092 (800-321-0207).

"IDEXX SimPlate™ HPC Test Method for Heterotrophs in Water," November 2000 (referred to as "SimPlate method"), referenced in Section 611.531.

Industrial Test Systems, Inc., 1875 Langston St., Rock Hill, SC 29730.

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Method D99-003, Revision 3.0, "Free Chlorine Species (HOCl and OCl) by Test Strip," November 21, 2003 (referred to as "ITS Method D99-003"), referenced in Section 611.381.

Lachat Instruments, 6645 W. Mill Rd., Milwaukee, WI 53218 (414-358-4200).

"Digestion and distillation of total cyanide in drinking and wastewaters using MICRO DIST and determination of cyanide by flow injection analysis," Revision 2.1, November 30, 2000 (referred to as "QuikChem Method 10-204-00-1-X"), referenced in Section 611.611.

[Leck Mitchell, PhD, PE, 656 Independence Valley Dr., Grand Junction, CO 81507. See also NEMI.](#)

[Mitchell Method M5271, "Determination of Turbidity by Laser Nephelometry," March 2009, referenced in Section 611.531.](#)

[Mitchell Method M5331, "Determination of Turbidity by LED Nephelometry," March 2009, referenced in Section 611.531.](#)

Millipore Corporation, Technical Services Department, 80 Ashby Road, Milford, MA 01730 (800-654-5476).

Colisure Presence/Absence Test for Detection and Identification of Coliform Bacteria and Escherichia Coli in Drinking Water, February 28, 1994 (referred to as "Colisure Test"), referenced in Section 611.526.

NCRP. National Council on Radiation Protection, 7910 Woodmont Ave., Bethesda, MD (301-657-2652).

[NCRP Report Number 22, "Maximum Permissible Body Burdens and Maximum Permissible Concentrations of Radionuclides in Air and in Water for Occupational Exposure," NCRP Report Number 22, June 5, 1959, referenced in Section 611.101.](#)

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[NEMI. National Environmental Method Index \(on-line at www.nemi.gov\).](http://www.nemi.gov)

[AMI Turbiwell Method, "Continuous Measurement of Turbidity Using a SWAN AMI Turbiwell Turbidimeter," August 2009. See also SWAN Analytische Instrumente AG.](#)

[Method ME355.01, Revision 1, "Determination of Cyanide in Drinking Water by GC/MS Headspace Analysis," May 2009, referenced in Section 611.611. See also H&E Testing Laboratory.](#)

[Mitchell Method M5271, "Determination of Turbidity by Laser Nephelometry," March 2009, referenced in Section 611.531. See also Leck Mitchell, PhD, PE.](#)

[Mitchell Method M5331, "Determination of Turbidity by LED Nephelometry," March 2009, referenced in Section 611.531. See also Leck Mitchell, PhD, PE](#)

[Modified Colitag™ Method, "Modified Colitag™ Test Method for Simultaneous Detection of E. coli and other Total Coliforms in Water \(ATP D05-0035\)," August 2009, referenced in Sections 611.526 and 611.802. See also CPI International, Inc.](#)

[Orion Method AQ4500, "Determination of Turbidity by LED Nephelometry," May 2009, referenced in Section 611.531. See also Thermo Scientific.](#)

[Palintest ChloroSense, "Measurement of Free and Total Chlorine in Drinking Water by Palintest ChloroSense," September 2009 \(referred to as "Palintest ChloroSense"\), referenced in Sections 611.381 and 611.531. See also Palintest.](#)

["Systea Easy \(1-Reagent\) Nitrate Method," referenced in Section 611.611. See also Systea Scientific, LLC.](#)

NSF. National Sanitation Foundation International, 3475 Plymouth Road, PO Box 130140, Ann Arbor, Michigan 48113-0140 (734-769-8010).

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NSF Standard 61, section 9, November 1998, referenced in Sections 611.126 and 611.356.

NTIS. National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield, VA 22161 (703-487-4600 or 800-553-6847).

~~Dioxin and Furan Method 1613, Revision B, "Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution HRGC/HRMS," October 1994, Revision B, EPA 821/B-94/005, Doc. No. 94-104774, referenced in Section 611.645. See also USEPA, NSCEP.~~

~~"Interim Radiochemical Methodology for Drinking Water," EPA 600/4-75-008 (revised), March 1976 (referred to as "USEPA Interim Radiochemical Methods"), referenced in Section 611.720. (Pages 1, 4, 6, 9, 13, 16, 24, 29, 34)~~

~~Kelada 01, "Kelada Automated Test Methods for Total Cyanide, Acid Dissociable Cyanide, and Thiocyanate," Revision 1.2, August 2001, EPA 821/B-01-009 (referred to as "Kelada 01"), referenced in Section 611.611.~~

"Maximum Permissible Body Burdens and Maximum Permissible Concentrations of Radionuclides in Air and in Water for Occupational Exposure," NBS (National Bureau of Standards) Handbook 69, as amended August 1963, U.S. Department of Commerce, referenced in Section 611.330.

~~Method 100.1, "Analytical Method for Determination of Asbestos Fibers in Water," EPA 600/4-83-043, September 1983, Doc. No. PB83-260471 (referred to as "USEPA Asbestos Methods 100.1"); referenced in Section 611.611.~~

~~Method 100.2, "Determination of Asbestos Structures over 10 mm in Length in Drinking Water," EPA 600/R-94-134, June 1994, Doc. No. PB94-201902 (referred to as "USEPA Asbestos Methods 100.2"), referenced in Section 611.611.~~

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~~"Methods for Chemical Analysis of Water and Wastes," March 1983, EPA 600/4-79-020, Doc. No. PB84-128677 (referred to as "USEPA Inorganic Methods"). (Methods 150.1, 150.2, and 245.2, which formerly appeared in this reference, are available from USEPA EMSL.), referenced in Section 611.611.~~

~~"Methods for the Determination of Inorganic Substances in Environmental Samples," August 1993, EPA 600/R-93-100, Doc. No. PB94-120821 (referred to as "USEPA Environmental Inorganic Methods"), referenced in Sections 611.381, 611.531, and 611.611. (For methods 180.1, 300.0, 335.4, 353.2, and 365.1.)~~

~~"Methods for the Determination of Metals in Environmental Samples," June 1991, EPA 600/4-91-010, Doc. No. PB91-231498 and "Methods for the Determination of Metals in Environmental Samples – Supplement I," May 1994, EPA 600/R-94-111, Doc. No. PB95-125472 (referred to as "USEPA Environmental Metals Methods"), referenced in Sections 611.611, 611.612, and 611.720. (For methods 200.7, 200.8, 200.9, and 245.1.)~~

~~"Methods for the Determination of Organic and Inorganic Compounds in Drinking Water, Volume 1" August 2000, EPA 815/R-00/014, Doc. No. PB2000-106981 (referred to as "USEPA Organic and Inorganic Methods"), referenced in Section 611.381. (For methods 300.1 and 321.8.)~~

~~"Methods for the Determination of Organic Compounds in Drinking Water," December 1988, revised July 1991, EPA 600/4-88/039, Doc. No. PB91-231480 (referred to as "USEPA Organic Methods"), referenced in Sections 611.645 and 611.648. (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, EPA 600/4-90/020, Doc. No. PB91-146027 (referred to as "USEPA Organic Methods"), referenced in Section 611.645. (For methods 506, 547, 550, 550.1, and 551.)~~

~~"Methods for the Determination of Organic Compounds in~~

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~~"Drinking Water – Supplement II," August 1992, EPA 600/R-92/129, Doc. No. PB92-207703 (referred to as "USEPA Organic Methods"), referenced in Sections 611.381 and 611.645. (For methods 515.2, 524.2, 548.1, 549.1, 552.1, and 555.)~~

~~"Methods for the Determination of Organic Compounds in Drinking Water – Supplement III," August 1995, EPA 600/R-95/131, Doc. No. PB95-261616, (referred to as "USEPA Organic Methods"), referenced in Sections 611.381 and 611.645. (For methods 502.2, 524.2, 551.1, and 552.2.)~~

~~"Prescribed Procedures for Measurement of Radioactivity in Drinking Water," EPA 600/4-80/032, August 1980 (Doc. No. PB 80-224744) (referred to as "USEPA Radioactivity Methods"), referenced in Section 611.720. (For methods 900, 901, 901.1, 902, 903, 903.1, 904, 905, 906, 908, 908.1)~~

"Procedures for Radiochemical Analysis of Nuclear Reactor Aqueous Solutions," H.L. Krieger and S. Gold, EPA-R4-73-014, May 1973, Doc. No. PB222-154/7BA, referenced in Section 611.720.

~~"Radiochemical Analytical Procedures for Analysis of Environmental Samples," March 1979, Doc. No. EMSL-LV 053917 (referred to as "USEPA Radiochemical Analyses"), referenced in Section 611.720. (Pages 1, 19, 33, 65, 87, 92)~~

~~"Radiochemistry Procedures Manual," EPA 520/5-84-006, August 1984, Doc. No. PB84-215581 (referred to as "USEPA Radiochemistry Methods"), referenced in Section 611.720. (Methods 00-01, 00-02, 00-07, H-02, Ra-03, Ra-04, Ra-05, Sr-04)~~

~~"Technical Notes on Drinking Water Methods," EPA 600/R-94/173, October 1994, Doc. No. PB95-104766 (referred to as "USEPA Technical Notes"), referenced in Sections 611.531, 611.611, and 611.685.~~

BOARD NOTE: USEPA made the following assertion with regard to this reference at 40 CFR 141.23(k)(1) and 141.24(e) and

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~~(n)(11) (2007): "This document contains other analytical test procedures and approved analytical methods that remain available for compliance monitoring until July 1, 1996." Also available online at <http://nepis.epa.gov/EPA/html/Pubs/pubtitleORD.htm> under the document designation "600R94173."~~

~~"Method 1613: Tetra through Octa-Chlorinated Dioxins and Furans by Isotope Dilution HRGC/HRMS," October 1994, EPA 821/B-94/005, Doc. No. 94-104774 (referred to as "Dioxin and Furan Method 1613"), referenced in Section 611.645.~~

~~USEPA Method 326.0, Revision 1.0, "Determination of Inorganic Oxalate Disinfection By-Products in Drinking Water Using Ion Chromatography Incorporating the Addition of a Suppressor Acidified Postcolumn Reagent for Trace Bromate Analysis," USEPA, June 2002, EPA 815/R-03/007, Doc. No. PB2003-107402 (referred to as "OGWDW Methods, Method 326.0, rev. 1.0"); referenced in Sections 611.381 and 611.382.~~

~~BOARD NOTE: Also available from United States Environmental Protection Agency, Office of Ground Water and Drinking Water.~~

USEPA Asbestos Method 100.1, "Analytical Method for Determination of Asbestos Fibers in Water," EPA 600/4-83-043, September 1983, Doc. No. PB83-260471, referenced in Section 611.611. See also USEPA, NSCEP.

USEPA Asbestos Method 100.2, "Determination of Asbestos Structures over 10-mm in Length in Drinking Water," EPA 600/R-94-134, June 1994, Doc. No. PB94-201902, referenced in Section 611.611. See also USEPA, NSCEP.

USEPA Environmental Inorganic Methods, "Methods for the Determination of Inorganic Substances in Environmental Samples," August 1993, EPA 600/R-93-100, Doc. No. PB94-121811, referenced in Sections 611.381, 611.531, and 611.611. (Methods 180.1 (rev. 2.0), 300.0 (rev. 2.1), 335.4 (rev. 1.0), 353.2 (rev. 2.0), and 365.1 (rev. 2.0) only.) See also USEPA, NSCEP.

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USEPA Environmental Metals Methods, "Methods for the Determination of Metals in Environmental Samples – Supplement I," May 1994, EPA 600/R-94-111, Doc. No. PB95-125472, referenced in Sections 611.611, 611.612, and 611.720. (Methods 200.7 (rev. 4.4), 200.8 (rev. 5.3), 200.9 (rev. 2.2), and 245.1 (rev. 3.0) only.) See also USEPA, NSCEP.

USEPA Inorganic Methods, "Methods for Chemical Analysis of Water and Wastes," March 1983, EPA 600/4-79-020, Doc. No. PB84-128677 (referred to as "") (Methods 150.1, 150.2, and 245.2 only.), referenced in Section 611.611. See also USEPA, NSCEP.

USEPA Interim Radiochemical Methods, "Interim Radiochemical Methodology for Drinking Water," EPA 600/4-75-008 (revised), Doc. No. PB253258, March 1976, referenced in Section 611.720.

USEPA OGWDW Methods, Method 326.0, Revision 1.0, "Determination of Inorganic Oxyhalide Disinfection By-Products in Drinking Water Using Ion Chromatography Incorporating the Addition of a Suppressor Acidified Postcolumn Reagent for Trace Bromate Analysis," June 2002, EPA 815/R-03/007, Doc. No. PB2003-107402, referenced in Sections 611.381 and 611.382. See also USEPA, NSCEP and USEPA, OGWDW.

USEPA Organic and Inorganic Methods, "Methods for the Determination of Organic and Inorganic Compounds in Drinking Water, Volume 1," August 2000, EPA 815/R-00/014, Doc. No. PB2000-106981, referenced in Section 611.381. (For methods 300.1 (rev. 1.0) and 321.8 (rev. 1.0).) See also USEPA, NSCEP.

USEPA Organic Methods, "Methods for the Determination of Organic Compounds in Drinking Water," December 1988 (revised July 1991), EPA 600/4-88/039, Doc. No. PB91-231480, referenced in Sections 611.645 and 611.648 (Methods 508A (rev. 1.0) and 515.1 (rev. 4.0) only); "Methods for the Determination of Organic Compounds in Drinking Water – Supplement I," July 1990, EPA 600/4-90/020, Doc. No. PB91-146027, referenced in Section 611.645 (Methods 547, 550, and 550.1 only); "Methods for the Determination of Organic Compounds in Drinking Water –

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Supplement II," August 1992, EPA 600/R-92/129, Doc. No. PB92-207703, referenced in Sections 611.381 and 611.645. (Methods 548.1 (rev. 1.0), 552.1 (rev. 1.0), and 555 (rev. 1.0) only); and "Methods for the Determination of Organic Compounds in Drinking Water – Supplement III," August 1995, EPA 600/R-95/131, Doc. No. PB95-261616, referenced in Sections 611.381, 611.645, and 611.648 (Methods 502.2 (rev. 2.1), 504.1 (rev. 1.1), 505 (rev. 2.1), 506 (rev. 1.1), 507 (rev. 2.1), 508 (rev. 3.1), 508.1 (rev. 2.0), 515.2 (rev. 1.1), 524.2 (rev. 4.1), 525.2 (rev. 2.0), 531.1 (rev. 3.1), 551.1 (rev. 1.0), and 552.2 (rev. 1.0) only.) See also USEPA, EMSL and USEPA, NSCEP.

USEPA Radioactivity Methods, "Prescribed Procedures for Measurement of Radioactivity in Drinking Water," EPA 600/4-80/032, August 1980, Doc. No. PB80-224744, referenced in Section 611.720 (Methods 900.0, 901.0, 901.1, 902.0, 903.0, 903.1, 904.0, 905.0, 906.0, 908.0, 908.1). See also USEPA, NSCEP.

USEPA Radiochemical Analyses, "Radiochemical Analytical Procedures for Analysis of Environmental Samples," March 1979, Doc. No. EMSL LV 053917, referenced in Section 611.720. (Pages 1-5, 19-32, 33-48, 65-73, 87-91, and 92-95 only.)

USEPA Radiochemistry Procedures, "Radiochemistry Procedures Manual," EPA 520/5-84-006, August 1984, Doc. No. PB84-215581 (referred to as ""), referenced in Section 611.720. (Methods 00-01, 00-02, 00-07, H-02, Ra-03, Ra-04, Ra-05, Sr-04 only.)

USEPA Technical Notes, "Technical Notes on Drinking Water Methods," EPA 600/R-94/173, October 1994, Doc. No. PB95-104766, referenced in Sections 611.531, 611.611, and 611.645. See also USEPA, NSCEP.

BOARD NOTE: USEPA made the following assertion with regard to this reference at 40 CFR 141.23(k)(1) and 141.24(e) and (n)(11) (2009): "This document contains other analytical test procedures and approved analytical methods that remain available

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for compliance monitoring until July 1, 1996." Also available online at <http://nepis.epa.gov/EPA/html/Pubs/pubtitleORD.htm> under the document designation "600R94173."

New Jersey Department of Environment, Division of Environmental Quality, Bureau of Radiation and Inorganic Analytical Services, 9 Ewing Street, Trenton, NJ 08625.

"Determination of Radium 228 in Drinking Water," August 1990 (referred to as "New Jersey Radium Method"), referenced in Section 611.720.

New York Department of Health, Radiological Sciences Institute, Center for Laboratories and Research, Empire State Plaza, Albany, NY 12201.

"Determination of Ra-226 and Ra-228 (Ra-02)," January 1980, Revised June 1982 (referred to as "New York Radium Method"), referenced in Section 611.720.

Palintest, Ltd., 21 Kenton Lands Road, P.O. Box 18395, Erlanger, KY (800-835-9629).

Palintest Method 1001, "Lead in Drinking Water by Differential Pulse Anodic Stripping Voltammetry," Method 1001, August 1999 (referred to as "Palintest Method 1001"), referenced in Section 611.611.

Palintest ChloroSense, "Measurement of Free and Total Chlorine in Drinking Water by Palintest ChloroSense," September 2009, referenced in Sections 611.381 and 611.531. See also NEMI.

Standard Methods Online, available online from the Standard Methods Organization at www.standardmethods.org.

Method 6610 B-04, Carbamate Pesticides, High-Performance Liquid Chromatographic Method, referenced in Section 611.645.

Method 9230 B-04, Fecal Streptococcus and Enterococcus Groups, Multiple Tube Techniques, referenced in Section 611.802.

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BOARD NOTE: Where, in appendix A to subpart C of 40 CFR 141, USEPA has authorized use of an approved alternative method from Standard Methods Online, and that version of the method appears also in Standard Methods, 21st ed., the Board cites only to Standard Methods, 21st ed. for that method. The methods that USEPA listed as available from Standard Methods Online, and which are listed above as in Standard Methods, 21st edition, are the following: 4500-P E-99, 4500-P F-99, 6640 B-01, and 9223 B-97. Since each method is the same version from both sources, the Board views a copy from Standard Methods Online as equivalent to a copy from Standard Methods Online, even though the Board does not also cite to Standard Methods Online. The Board intends that use of the method from either source is acceptable.

SWAN Analytische Instrumente AG, Studbachstrasse 13, CH-8340, Hinwil, Switzerland.

AMI Turbiwell Method, "Continuous Measurement of Turbidity Using a SWAN AMI Turbiwell Turbidimeter," August 2009, referenced in Section 611.531. See also NEMI.

Syngenta Crop Protection, Inc., 410 Swing Road, Post Office Box 18300, Greensboro, NC 27419 (336-632-6000).

"Atrazine in Drinking Water by Immunoassay," February 2001 (referred to as "Syngenta AG-625"), referenced in Section 611.645.

Systema Scientific LLC, 900 Jorie Blvd., Suite 35, Oak Brook, IL 60523.

Systema Easy (1-Reagent), "Systema Easy (1-Reagent) Nitrate Method," February 2009, referenced in Section 611.611. See also NEMI.

Thermo Scientific, 166 Cummings Center, Beverly, MA 01915. (www.thermo.com).

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Orion Method AQ4500, "Determination of Turbidity by LED Nephelometry," May 2009, referenced in Section 611.531. See also NEMI.

USDOE, EML. United States Department of Energy, available at the Environmental Measurements Laboratory, U.S. Department of Energy, 376 Hudson Street, New York, NY 10014-3621.

"EML Procedures Manual," HASL 300, 27th Edition, Volume 1, 1990 (referred to as "EML Procedures ~~USDOE~~ Manual (27th ed.)"), referenced in Section 611.720.

"EML Procedures Manual," HASL 300, 28th ed., 1997 (referred to as "EML Procedures Manual (28th ed.)"), referenced in Section 611.720.

USEPA, EMSL. United States Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, OH 45268 (513-569-7586).

USEPA Interim Radiochemical Methods, "Interim Radiochemical Methodology for Drinking Water," EPA 600/4-75/008 (revised), March 1976, referenced in Section 611.720. See also NTIS.

USEPA Organic Methods, "Methods for the Determination of Organic Compounds in Drinking Water," December 1988 (revised July 1991), EPA 600/4-88/039, referenced in Sections 611.645 and 611.648 (Methods 508A (rev. 1.0) and 515.1 (rev. 4.0) only); "Methods for the Determination of Organic Compounds in Drinking Water – Supplement I," July 1990, EPA 600/4-90/020, referenced in Sections 611.645 and 611.648 (Methods 547, 550, and 550.1 only); "Methods for the Determination of Organic Compounds in Drinking Water – Supplement II," August 1992, EPA 600/R-92/129, referenced in Sections 611.381 and 611.645 (Methods 548.1 (rev. 1.0), 552.1 (rev. 1.0), and 555 (rev. 1.0) only); "Methods for the Determination of Organic Compounds in Drinking Water – Supplement III," August 1995, EPA 600/R-95/131, referenced in Sections 611.381, 611.645, and 611.648 (Methods 502.2 (rev. 2.1), 504.1 (rev. 1.1), 505 (rev. 2.1), 506 (rev.

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1.1), 507 (rev. 2.1), 508 (rev. 3.1), 508.1 (rev. 2.0), 515.2 (rev. 4.1), 524.2 (rev. 4.1), 525.2 (rev. 2.0), 551.1 (rev. 1.0), and 552.2 (rev. 1.0) only). See also NTIS and USEPA, NSCEP.

"Procedures for Radiochemical Analysis of Nuclear Reactor Aqueous Solutions," referenced in Section 611.720. See also NTIS.

USEPA, NSCEP. United States Environmental Protection Agency, National Service Center for Environmental Publications, P.O. Box 42419, Cincinnati, OH 45242-0419 (accessible on-line and available by download from <http://www.epa.gov/nscep/>).

Dioxin and Furan Method 1613, Revision B, "Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution HRGC/HRMS," October 1994, EPA 821/B-94/005, referenced in Section 611.645. See also NTIS.

Guidance Manual for Filtration and Disinfection, "Guidance Manual for Compliance with the Filtration and Disinfection Requirements for Public Water Systems Using Surface Water Sources," March 1991, EPA 570/3-91-001, referenced in Section 611.111.

USEPA Asbestos Method 100.1, "Analytical Method for Determination of Asbestos Fibers in Water," September 1983, EPA 600/4-83-043, referenced in Section 611.611. See also NTIS.

USEPA Asbestos Method 100.2, "Determination of Asbestos Structures over 10-mm in Length in Drinking Water," June 1994, EPA 600/R-94-134, referenced in Section 611.611. See also NTIS.

USEPA Environmental Inorganic Methods, "Methods for the Determination of Inorganic Substances in Environmental Samples," August 1993, EPA 600/R-93-100, referenced in Sections 611.381, 611.531, and 611.611. (Methods 180.1 (rev. 2.0), 300.0 (rev. 2.1), 335.4 (rev. 1.0), 353.2 (rev. 2.0), and 365.1 (rev. 2.0) only.) See also NTIS.

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USEPA Environmental Metals Methods, "Methods for the Determination of Metals in Environmental Samples – Supplement I," May 1994, EPA 600/R-94-111, referenced in Sections 611.611, 611.612, and 611.720. (Methods 200.7 (rev. 4.4), 200.8 (rev. 5.3), 200.9 (rev. 2.2), and 245.1 (rev. 3.0) only.) See also NTIS.

USEPA Inorganic Methods, "Methods for Chemical Analysis of Water and Wastes," March 1983, EPA 600/4-79-020, referenced in Section 611.611. (Methods 150.1, 150.2, and 245.2 only.) See also NTIS.

USEPA OGWDW Methods, Method 302.0, "Determination of Bromate in Drinking Water Using Two-Dimensional Ion Chromatography with Suppressed Conductivity Detection," September 2009, EPA 815/B-09/014, referenced in Sections 611.381 and 611.382. See also USEPA, OGWDW.

USEPA OGWDW Methods, Method 317.0, rev. 2.0, "Determination of Inorganic Oxyhalide Disinfection By-Products in Drinking Water Using Ion Chromatography with the Addition of a Postcolumn Reagent for Trace Bromate Analysis," July 2001, EPA 815/B-01/001, referenced in Sections 611.381 and 611.382. See also USEPA, OGWDW.

USEPA OGWDW Methods, Method 326.0, rev. 1.0, "Determination of Inorganic Oxyhalide Disinfection By-Products in Drinking Water Using Ion Chromatography Incorporating the Addition of a Suppressor Acidified Postcolumn Reagent for Trace Bromate Analysis," June 2002, EPA 815/R-03/007, referenced in Sections 611.381 and 611.382. See also NTIS and USEPA, OGWDW.

USEPA OGWDW Methods, Method 327.0, rev. 1.1, "Determination of Chlorine Dioxide and Chlorite Ion in Drinking Water Using Lissamine Green B and Horseradish Peroxidase with Detection by Visible Spectrophotometry," May 2005, EPA 815/R-05/008, referenced in Sections 611.381 and 611.531. See also USEPA, OGWDW.

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USEPA OGWDW Methods, Method 334.0, "Determination of Residual in Drinking Water Using an On-line Chlorine Analyzer," August 2009, EPA 815/B-09/013, referenced in Section 611.531. See also USEPA, OGWDW.

USEPA OGWDW Methods, Method 531.2, rev. 1.0, "Measurement of N-methylcarbamoyloximes and N-methylcarbamates in Water by Direct Aqueous Injection HPLC with Postcolumn Derivatization," September 2001, EPA 815/B-01/002 (document file name "met531_2.pdf"), referenced in Section 611.645. See also USEPA, OGWDW.

USEPA OGWDW Methods, Method 552.3, rev. 1.0, "Determination of Haloacetic Acids and Dalapon in Drinking Water by Liquid-Liquid Microextraction, Derivatization, and Gas Chromatography with Electron Capture Detection," July 2003, EPA 815/B-03/002, referenced in Sections 611.381 and 611.645.

USEPA OGWDW Methods, Method 557, "Determination of Haloacetic Acids, Bromate, and Dalapon in Drinking Water by Ion Chromatography Electrospray Ionization Tandem Mass Spectrometry," July 2003, EPA 815/B-03/002, referenced in Sections 611.381, 611.382, and 611.645. See also USEPA, OGWDW.

USEPA OGWDW Methods, Method 1622 (01), "Cryptosporidium in Water by Filtration/IMS/FA," April 2001, EPA 821/R-01/026, referenced in Section 611.1007. See also USEPA, OGWDW.

USEPA Organic and Inorganic Methods, "Methods for the Determination of Organic and Inorganic Compounds in Drinking Water, Volume 1," August 2000, EPA 815/R-00/014, referenced in Section 611.381. (Methods 300.1 (rev. 1.0) and 321.8 (rev. 1.0) only.) See also NTIS.

USEPA Organic Methods, "Methods for the Determination of Organic Compounds in Drinking Water," December 1988, revised July 1991, EPA 600/4-88/039, referenced in Sections 611.645 and

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611.648 (Methods 508A (rev. 1.0) and 515.1 (rev. 4.0) only); "Methods for the Determination of Organic Compounds in Drinking Water – Supplement I," July 1990, EPA 600/4-90/020, referenced in Section 611.645 and 611.648 (Methods 547, 550, and 550.1 only); "Methods for the Determination of Organic Compounds in Drinking Water – Supplement II," August 1992, EPA 600/R-92/129, referenced in Sections 611.381 and 611.645 (Methods 548.1 (rev. 1.0), 552.1 (rev. 1.0), and 555 (rev. 1.0) only); "Methods for the Determination of Organic Compounds in Drinking Water – Supplement III," August 1995, EPA 600/R-95/131, referenced in Sections 611.381, 611.645, and 611.648 (Methods 502.2 (rev. 2.1), 504.1 (rev. 1.1), 505 (rev. 2.1), 506 (rev. 1.1), 507 (rev. 2.1), 508 (rev. 3.1), 508.1 (rev. 2.0), 515.2 (rev. 4.1), 524.2 (rev. 4.1), 525.2 (rev. 2.0), 531.1 (rev. 3.1), 551.1 (rev. 1.0), and 552.2 (rev. 1.0) only). See also NTIS and USEPA, EMSL.

USEPA Radioactivity Methods, "Prescribed Procedures for Measurement of Radioactivity in Drinking Water," August 1980, EPA 600/4-80/032, referenced in Section 611.720. (For methods 900.0, 901, 901.1, 902, 903, 903.1, 904, 905, 906, 908, 908.1 only.) See also NTIS.

USEPA Technical Notes, "Technical Notes on Drinking Water Methods," October 1994, EPA 600/R-94/173, referenced in Sections 611.531, 611.611, and 611.645. See also NTIS.

BOARD NOTE: USEPA made the following assertion with regard to this reference at 40 CFR 141.23(k)(1) and 141.24(e) and (n)(11) (2007): "This document contains other analytical test procedures and approved analytical methods that remain available for compliance monitoring until July 1, 1996." Also available online at <http://nepis.epa.gov/EPA/html/Pubs/pubtitleORD.htm> under the document designation "600R94173."

USEPA OGWDW. United States Environmental Protection Agency, USEPA Office of Ground Water and Drinking Water (accessible on-line and available by download from <http://www.epa.gov/safewater/methods/>).

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USEPA OGWDW Methods, Method 302.0, "Determination of Bromate in Drinking Water Using Two-Dimensional Ion Chromatography with Suppressed Conductivity Detection," September 2009, EPA 815/B-09/014, referenced in Section 611.381. See also USEPA, NSCEP.

USEPA OGWDW Methods, Method 317.0, ~~rev. Revision~~ 2.0, "Determination of Inorganic Oxyhalide Disinfection By-Products in Drinking Water Using Ion Chromatography with the Addition of a Postcolumn Reagent for Trace Bromate Analysis," USEPA, July 2001, EPA 815/B-01/001 (~~referred to as "OGWDW Methods, Method 317.0, rev. 2.0"~~), referenced in ~~Section~~Sections 611.381 and ~~611.382~~. See also USEPA, NSCEP.

USEPA OGWDW Methods, Method 326.0, ~~rev. Revision~~ 1.0, "Determination of Inorganic Oxyhalide Disinfection By-Products in Drinking Water Using Ion Chromatography Incorporating the Addition of a Suppressor Acidified Postcolumn Reagent for Trace Bromate Analysis," USEPA, June 2002, EPA 815/R-03/007 (~~referred to as "OGWDW Methods, Method 326.0, rev. 1.0"~~), referenced in ~~Section~~Sections 611.381 and ~~611.382~~. See also NTIS and USEPA, NSCEP.

~~BOARD NOTE: Also available from NTIS.~~

USEPA OGWDW Methods, Method 327.0, ~~rev. Revision~~ 1.1, "Determination of Chlorine Dioxide and Chlorite Ion in Drinking Water Using Lissamine Green B and Horseradish Peroxidase with Detection by Visible Spectrophotometry," USEPA, May 2005, EPA 815/R-05/008 (~~referred to as "OGWDW Methods, Method 327.0, rev. 1.1"~~), referenced in Sections 611.381 and 611.531. See also USEPA, NSCEP.

USEPA OGWDW Methods, Method 334.0, "Determination of Residual in Drinking Water Using an On-line Chlorine Analyzer," USEPA, August 2009, EPA 815/B-09/013, referenced in Section 611.531. See also USEPA, NSCEP.

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USEPA OGWDW Methods, Method 515.4, ~~rev.~~ **Revision** 1.0, "Determination of Chlorinated Acids in Drinking Water by Liquid-Liquid Microextraction, Derivatization and Fast Gas Chromatography with Electron Capture Detection," April 2000, EPA 815/B-00/001 (document file name "met515_4.pdf") (~~referred to as "OGWDW Methods, Method 515.4, rev. 1.0"~~), referenced in Section 611.645.

USEPA OGWDW Methods, Method 524.3, rev. 1.0, "Measurement of Purgeable Organic Compounds in Water by Capillary Column Gas Chromatography/Mass Spectrometry," June 2009, EPA 815/B-09/009 (referred to as "Method 524.3 (rev. 1.0)", referenced in Sections 611.381 and 611.645.

USEPA OGWDW Methods, Method 531.2, ~~rev.~~ **Revision** 1.0, "Measurement of N-methylcarbamoyloximes and N-methylcarbamates in Water by Direct Aqueous Injection HPLC with Postcolumn Derivatization," September 2001, EPA 815/B-01/002 (document file name "met531_2.pdf") (~~referred to as "OGWDW Methods, Method 531.2, rev. 1.0"~~), referenced in Section 611.645. See also USEPA, NSCEP.

USEPA OGWDW Methods, Method 552.3, ~~rev.~~ **Revision** 1.0, "Determination of Haloacetic Acids and Dalapon in Drinking Water by Liquid-liquid Microextraction, Derivatization, and Gas Chromatography with Electron Capture Detection," USEPA, July 2003, EPA 815/B-03/002 (~~referred to as "OGWDW Methods, Method 552.3, rev. 1.0"~~), referenced in Sections 611.381 and 611.645.

USEPA OGWDW Methods, Method 557, "Determination of Haloacetic Acids, Bromate, and Dalapon in Drinking Water by Ion Chromatography Electrospray Ionization Tandem Mass Spectrometry," July 2003, EPA 815/B-03/002, referenced in Sections 611.381 and 611.645. See also USEPA, NSCEP.

USEPA OGWDW Methods, Method 1622 (05), "Method 1622: Cryptosporidium in Water by Filtration/IMS/FA," December 2005,

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EPA 815/R-05/001 (~~referred to as "USEPA Method 1622 (05)"~~),
referenced in Sections 611.1004 and 611.1007.

USEPA OGWDW Methods, Method 1622 (01), "Method 1622:
Cryptosporidium in Water by Filtration/IMS/FA," April 2001,
EPA 821/R-01/026, (~~referred to as "USEPA Method 1622 (01)"~~);
referenced in Section 611.1007. See also USEPA, NSCEP.

USEPA OGWDW Methods, Method 1622 (99), "Method 1622:
Cryptosporidium in Water by Filtration/IMS/FA," April 1999,
EPA 821/R-99/001, (~~referred to as "USEPA Method 1622 (99)"~~);
referenced in Section 611.1007.

USEPA OGWDW Methods, Method 1623 (05), "Method 1623:
Cryptosporidium and Giardia in Water by Filtration/IMS/FA,"
December 2005, EPA 815/R-05/002 (~~referred to as "USEPA
Method 1623 (05)"~~), referenced in Sections 611.1004 and
611.1007.

USEPA OGWDW Methods, Method 1623 (01), "Method 1623:
Cryptosporidium and Giardia in Water by Filtration/IMS/FA,"
April 2001, EPA 821/R-01/025 (~~referred to as "USEPA Method
1623 (01)"~~), referenced in Section 611.1007.

USEPA OGWDW Methods, Method 1623 (99), "Method 1623:
Cryptosporidium and Giardia in Water by Filtration/IMS/FA,"
January 1999, EPA 821/R-99/006 (~~referred to as "USEPA Method
1623 (99)"~~), referenced in Sections 611.1007.

BOARD NOTE: Many of the above-listed documents available from the
USEPA, Office of Ground Water and Drinking Water are also listed as
available from NTIS.

~~United States Environmental Protection Agency, EMSL, Cincinnati, OH
45268 (513-569-7586).~~

~~"Interim Radiochemical Methodology for Drinking Water," EPA
600/4-75/008 (revised), March 1976 (referred to as "USEPA
Interim Radiochemical Methods"), referenced in Section 611.720.~~

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~~See NTIS.~~

~~"Methods for the Determination of Organic Compounds in Drinking Water," December 1988, revised July 1991, EPA 600/4-88/039 (referred to as "USEPA Organic Methods"), referenced in Sections 611.645 and 611.648. (For methods 504.1, 508.1, and 525.2 only.) See NTIS.~~

~~"Procedures for Radiochemical Analysis of Nuclear Reactor Aqueous Solutions," referenced in Section 611.720. See NTIS.~~

USEPA, ORD. USEPA, Office of Research and Development, National Exposure Research Laboratory, Microbiological & Chemical Exposure Assessment Research Division (accessible on-line and available by download from <http://www.epa.gov/nerlcwww/ordmeth.htm>).

USEPA NERL Method 200.5, rev. Revision 4.2, "Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma – Atomic Emission Spectrometry," October 2003, EPA 600/R-06/115 (~~referred to as "USEPA NERL Method 200.5"~~), referenced in Sections 611.611 and 611.612.

USEPA NERL Method 415.3, rev. Revision 1.1, "Determination of Total Organic Carbon and Specific UV Absorbance at 254 nm in Source Water and Drinking Water," February 2005, EPA 600/R-05/055 (~~referred to as "USEPA NERL Method 415.3 (rev. 1.1)"~~), referenced in Section 611.381.

USEPA NERL Method 415.3, rev. 1.2, "Determination of Total Organic Carbon and Specific UV Absorbance at 254 nm in Source Water and Drinking Water," February 2005, EPA 600/R-09/122, referenced in Section 611.381.

USEPA NERL Method 549.2, rev. 1.0, "Determination of Diquat and Paraquat in Drinking Water by Liquid-Solid Extraction and High Performance Liquid Chromatography with Ultraviolet Detection," June 1997.

~~USEPA, Science and Technology Branch, Criteria and Standards~~

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~~Division, Office of Drinking Water, Washington, D.C. 20460.~~

~~"Guidance Manual for Compliance with the Filtration and Disinfection Requirements for Public Water Systems using Surface Water Sources," October 1989, referenced in Sections 611.111 and 611.212.~~

USEPA Water Resource Center (RC-4100T), 1200 Pennsylvania Avenue, NW, Washington, DC 20460:

~~E*Colite Test, "Charm E*Colite Presence/Absence Test for Detection and Identification of Coliform Bacteria and Escherichia coli in Drinking Water," January 9, 1998 (referred to as "E*Colite Test"), referenced in Section 611.802. (See also available from Charm Sciences, Inc.)~~

~~m-ColiBlue24 Test, "Total Coliforms and E. coli Membrane Filtration Method with m-ColiBlue24® Broth," Method No. 10029, rev. Revision 2, August 17, 1999 (referred to as "m-ColiBlue24 Test"), referenced in Section 611.802. See (also ~~available from~~ The Hach Company).~~

~~USEPA Method 1600, "EPA Method 1600: Enterococci in Water by Membrane Filtration Using Membrane-Enterococcus Indoxyl-b-D-Glucoside Agar (mEI)," September 2002, EPA 821/R-02/022 (referred to as "USEPA Method 1600") is an approved variation of Standard Methods, Method 9230 C, "Fecal Streptococcus and Enterococcus Groups, Membrane Filter Techniques" (which has not itself been approved for use by USEPA) (accessible on-line and available by download from <http://www.epa.gov/nerlcwww/1600sp02.pdf>), referenced in Section 611.802.~~

~~USEPA Method 1601, "Method 1601: Male-specific (F⁺) and Somatic Coliphage in Water by Two-step Enrichment Procedure," April 2001, EPA 821/R-01/030 (referred to as "USEPA Method 1601") (accessible on-line and available by download from <http://www.epa.gov/nerlcwww/1601ap01.pdf>), referenced in Section 611.802.~~

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USEPA Method 1602, "Method 1602: Male-specific (F⁺) and Somatic Coliphage in Water by Single Agar Layer (SAL) Procedure," April 2001, EPA 821/R-01/029 (~~referred to as "USEPA Method 1602"~~) (accessible on-line and available by download from <http://www.epa.gov/nerlcwww/1602ap01.pdf>), referenced in Section 611.802.

USEPA Method 1604, "Method 1604: Total Coliforms and Escherichia coli in Water by Membrane Filtration Using a Simultaneous Detection Technique (MI Medium)," September 2002, EPA 821/R-02/024 (~~referred to as "USEPA Method 1604"~~) (accessible on-line and available by download from <http://www.epa.gov/nerlcwww/1604sp02.pdf>), referenced in Section 611.802.

USGS. Books and Open-File Reports Section, United States Geological Survey, Federal Center, Box 25286, Denver, CO 80225-0425.

Methods available upon request by method number from "Methods for Analysis by the U.S. Geological Survey National Water Quality Laboratory – Determination of Inorganic and Organic Constituents in Water and Fluvial Sediments," Open File Report 93-125, 1993, or Book 5, Chapter A-1, "Methods for Determination of Inorganic Substances in Water and Fluvial Sediments," 3rd ed., Open-File Report 85-495, 1989, as appropriate (referred to as "USGS Methods").

I-1030-85, referenced in Section 611.611.

I-1601-85, referenced in Section 611.611.

I-1700-85, referenced in Section 611.611.

I-2598-85, referenced in Section 611.611.

I-2601-90, referenced in Section 611.611.

I-2700-85, referenced in Section 611.611.

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I-3300-85, referenced in Section 611.611.

Methods available upon request by method number from "Methods for Determination of Radioactive Substances in Water and Fluvial Sediments," Chapter A5 in Book 5 of "Techniques of Water-Resources Investigations of the United States Geological Survey," 1997.

R-1110-76, referenced in Section 611.720.

R-1111-76, referenced in Section 611.720.

R-1120-76, referenced in Section 611.720.

R-1140-76, referenced in Section 611.720.

R-1141-76, referenced in Section 611.720.

R-1142-76, referenced in Section 611.720.

R-1160-76, referenced in Section 611.720.

R-1171-76, referenced in Section 611.720.

R-1180-76, referenced in Section 611.720.

R-1181-76, referenced in Section 611.720.

R-1182-76, referenced in Section 611.720.

Waters Corporation, Technical Services Division, 34 Maple St., Milford, MA 01757 (800-252-4752 or 508-482-2131, fax: 508-482-3625).

"Waters Test Method for Determination of Nitrite/Nitrate in Water Using Single Column Ion Chromatography," Method B-1011, August 1987 (referred to as "Waters Method B-1011"), referenced in Section 611.611.

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

40 CFR 3.2 ~~(2010)(2007)~~ (How Does This Part Provide for Electronic Reporting?), referenced in Section 611.105.

40 CFR 3.3 ~~(2010)(2007)~~ (What Definitions Are Applicable to This Part?), referenced in Section 611.105.

40 CFR 3.10 ~~(2010)(2007)~~ (What Are the Requirements for Electronic Reporting to EPA?), referenced in Section 611.105.

40 CFR 3.2000 ~~(2010)(2007)~~ (What Are the Requirements Authorized State, Tribe, and Local Programs' Reporting Systems Must Meet?), referenced in Section 611.105.

40 CFR 136.3(a) ~~(2010)(2007)~~, referenced in Section 611.1004.

Appendix B to 40 CFR 136 ~~(2010)(2007)~~, referenced in Sections 611.359, 611.609, and 611.646.

~~40 CFR 142.20(b)(1) (2010), referenced in Section 611.112.~~

- d) This Part incorporates no later amendments or editions.

(Source: Amended at 34 Ill. Reg. 19848, effective December 7, 2010)

Section 611.105 Electronic Reporting

The submission of any document pursuant to any provision of this Part as an electronic document in lieu of a paper document is subject to this Section.

- a) Scope and Applicability.

- 1) The USEPA, the Board, or the Agency may allow for the submission of electronic documents in lieu of paper documents. This Section does not require submission of electronic documents in lieu of paper documents. This Section sets forth the requirements for the optional electronic submission of any document that must be submitted to the appropriate of the following:

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- A) To USEPA directly under Title 40 of the Code of Federal Regulations; or
 - B) To the Board or the Agency pursuant to any provision of 35 Ill. Adm. Code 702 through 705, 720 through 728, 730, 733, 738, or 739.
- 2) Electronic document submission under this Section can occur only as follows:
- A) For submissions of documents to USEPA, submissions may occur only after USEPA has published a notice in the Federal Register announcing that USEPA is prepared to receive, in an electronic format, documents required or permitted by the identified part or subpart of Title 40 of the Code of Federal Regulations; or
 - B) For submissions of documents to the State, submissions may occur only under the following circumstances:
 - i) As to any existing electronic document receiving system (i.e., one in use or substantially developed on or before October 13, 2005) for which an electronic reporting application has not been submitted on behalf of the Board or the Agency to USEPA pursuant to 40 CFR 3.1000, the Board or the Agency may use that system until October 13, 2007, or until such later date as USEPA has approved in writing as the extended deadline for submitting the application;
 - ii) As to any existing electronic document receiving system (i.e., one in use or substantially developed on or before October 13, 2005) for which an electronic reporting application has been submitted on behalf of the Board or the Agency to USEPA pursuant to 40 CFR 3.1000 on or before October 13, 2007, or on or before such later date as USEPA has approved in writing as the extended deadline for submitting the application, the Board or the Agency

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may use that system until USEPA disapproves its use in writing; or

- iii) The Board or the Agency may use any electronic document receiving system for which USEPA has granted approval pursuant to 40 CFR 3.1000, so long as the system complies with 40 CFR 3.2000, incorporated by reference in Section 611.102(c), and USEPA has not withdrawn its approval of the system in writing.
- 3) This Section does not apply to any of the following documents, whether or not the document is a document submitted to satisfy the requirements cited in subsection (a)(1) of this Section:
- A) Any document submitted via facsimile;
 - B) Any document submitted via magnetic or optical media, such as diskette, compact disc, digital video disc, or tape; or
 - C) Any data transfer between USEPA, any state, or any local government and either the Board or the Agency as part of administrative arrangements between the parties to the transfer to share data.
- 4) Upon USEPA conferring written approval for the submission of any types of documents as electronic documents in lieu of paper documents, as described in subsection (a)(2)(B)(iii) of this Section, the Agency or the Board, as appropriate, must publish a Notice of Public Information in the Illinois Register that describes the documents approved for submission as electronic documents, the electronic document receiving system approved to receive them, the acceptable formats and procedures for their submission, and, as applicable, the date on which the Board or the Agency will begin to receive those submissions. In the event of written cessation of USEPA approval for receiving any type of document as an electronic document in lieu of a paper document, the Board or the Agency must similarly cause publication of a Notice of Public Information in the Illinois Register.

BOARD NOTE: Subsection (a) of this Section is derived from 40 CFR 3.1, 3.2, 3.10, 3.20 and 3.1000 ~~(2010)-as added at 70 Fed. Reg. 59848 (Oct. 13, 2005).~~

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- b) Definitions. For the purposes of this Section, terms will have the meaning attributed them in 40 CFR 3.3, incorporated by reference in 35 Ill. Adm. Code 611.102(c).
- c) Procedures for submission of electronic documents in lieu of paper documents to USEPA. Except as provided in subsection (a)(3) of this Section, any person who is required under Title 40 of the Code of Federal Regulations to create and submit or otherwise provide a document to USEPA may satisfy this requirement with an electronic document, in lieu of a paper document, provided the following conditions are met:
- 1) The person satisfies the requirements of 40 CFR 3.10, incorporated by reference in Section 611.102(c); and
 - 2) USEPA has first published a notice in the Federal Register as described in subsection (a)(2)(A) of this Section.

BOARD NOTE: Subsection (c) of this Section is derived from 40 CFR 3.2(a) and subpart B of 40 CFR 3 ~~(2010), as added at 70 Fed. Reg. 59848 (Oct. 13, 2005).~~

- d) Procedures for submission of electronic documents in lieu of paper documents to the Board or the Agency.
- 1) The Board or the Agency may, but is not required to, establish procedural rules for the electronic submission of documents. The Board or the Agency must establish any such procedural rules under the Administrative Procedure Act [5 ILCS 100/Art. 5].
 - 2) The Board or the Agency may accept electronic documents under this Section only as provided in subsection (a)(2)(B) of this Section.

BOARD NOTE: Subsection (d) of this Section is derived from 40 CFR 3.2(b) and subpart D of 40 CFR 3 ~~(2010), as added at 70 Fed. Reg. 59848 (Oct. 13, 2005).~~

- e) Effects of submission of an electronic document in lieu of paper documents.

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- 1) If a person who submits a document as an electronic document fails to comply with the requirements of this Section, that person is subject to the penalties prescribed for failure to comply with the requirement that the electronic document was intended to satisfy.
- 2) Where a document submitted as an electronic document to satisfy a reporting requirement bears an electronic signature, the electronic signature legally binds, obligates, and makes the signer responsible to the same extent as the signer's handwritten signature would on a paper document submitted to satisfy the same reporting requirement.
- 3) Proof that a particular signature device was used to create an electronic signature will suffice to establish that the individual uniquely entitled to use the device did so with the intent to sign the electronic document and give it effect.
- 4) Nothing in this Section limits the use of electronic documents or information derived from electronic documents as evidence in enforcement or other proceedings.

BOARD NOTE: Subsection (e) of this Section is derived from 40 CFR 3.4 and 3.2000(c) ~~(2010), as added at 70 Fed. Reg. 59848 (Oct. 13, 2005).~~

- f) Public document subject to State laws. Any electronic document filed with the Board is a public document. The document, its submission, its retention by the Board, and its availability for public inspection and copying are subject to various State laws, including, but not limited to, the following:
 - 1) The Administrative Procedure Act [5 ILCS 100];
 - 2) The Freedom of Information Act [5 ILCS 140];
 - 3) The State Records Act [5 ILCS 160];
 - 4) The Electronic Commerce Security Act [5 ILCS 175];
 - 5) The Environmental Protection Act [415 ILCS 5];

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- 6) Regulations relating to public access to Board records (2 Ill. Adm. Code 2175); and
- 7) Board procedural rules relating to protection of trade secrets and confidential information (35 Ill. Adm. Code 130).
- g) Nothing in this Section or in any provisions adopted pursuant to subsection (d)(1) of this Section will create any right or privilege to submit any document as an electronic document.

BOARD NOTE: Subsection (g) of this Section is derived from 40 CFR 3.2(c) ~~(2010), as added at 70 Fed. Reg. 59848 (Oct. 13, 2005).~~

BOARD NOTE: Derived from 40 CFR 3, as added, and 40 CFR 142.10(g) ~~(2010)(2005), as amended at 70 Fed. Reg. 59848 (Oct. 13, 2005).~~

(Source: Amended at 34 Ill. Reg. 19848, effective December 7, 2010)

Section 611.111 Relief Equivalent to SDWA Section 1415(a) Variances

This Section is intended to describe how the Board grants State relief equivalent to that available from USEPA under section 1415(a)(1)(A) and (a)(1)(B) of the SDWA (42 USC 300g-4(a)(1)(A) and (a)(1)(B)). SDWA section 1415 variances do not require ultimate compliance within five years in every situation. Variances under Sections 35 ~~through 37-37~~ of the Act [415 ILCS 5/35-37] do require compliance within five years in every case. Consequently, a PWS may have the option of seeking State regulatory relief equivalent to a SDWA section 1415 variance through one of three procedural mechanisms: a variance under Sections 35 ~~through 37-37~~ of the Act [415 ILCS 5/35-37] and Subpart B of 35 Ill. Adm. Code 104; a site-specific rule under Sections ~~27 and 28-28~~ of the Act [415 ILCS 5/27-28] and 35 Ill. Adm. Code 102; or an adjusted standard under Section 28.1 of the Act [415 ILCS 5/28.1] and Subpart D of 35 Ill. Adm. Code 104.

- a) The Board will grant a PWS a variance, a site-specific rule, or an adjusted standard from an MCL or a treatment technique pursuant to this Section.
 - 1) The PWS must file a petition pursuant to 35 Ill. Adm. Code 102 or 104, as applicable.
 - 2) If a State requirement does not have a federal counterpart, the Board may grant relief from the State requirements without following this Section.

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- b) Relief from an MCL.
 - 1) As part of the justification for relief from an MCL under this Section, the PWS must demonstrate the following:
 - A) Because of characteristics of the raw water sources and alternative sources that are reasonably available to the system, the PWS cannot meet the MCL; and
 - B) The PWS will install or has installed the best available technology (BAT) (as identified in Subpart F of this Part), treatment technique, or other means that the Agency finds available. BAT may vary depending on the following:
 - i) The number of persons served by the system;
 - ii) Physical conditions related to engineering feasibility; and
 - iii) Costs of compliance; and
 - C) The variance will not result in an unreasonable risk to health.
 - 2) In any order granting relief under this subsection, the Board will prescribe a schedule for the following:
 - A) Compliance, including increments of progress, by the PWS, with each MCL with respect to which the relief was granted; and
 - B) Implementation by the PWS of each additional control measure for each MCL with respect to which the relief is granted, during the period ending on the date compliance with such requirement is required.
 - 3) Schedule of compliance for relief from an MCL.
 - A) A schedule of compliance will require compliance with each MCL with respect to which the relief was granted as expeditiously as practicable.

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- B) If the Board prescribes a schedule requiring compliance with an MCL for which the relief is granted later than five years from the date of issuance of the relief, the Board will do the following:
- i) Document its rationale for the extended compliance schedule;
 - ii) Discuss the rationale for the extended compliance schedule in the required public notice and opportunity for public hearing; and
 - iii) Provide the shortest practicable time schedule feasible under the circumstances.
- c) Relief from a treatment technique requirement.
- 1) As part of the justification for relief from a treatment technique requirement under this Section, the PWS must demonstrate that the treatment technique is not necessary to protect the health of persons served because of the nature of the raw water source.
 - 2) The Board may prescribe monitoring and other requirements as a condition for relief from a treatment technique requirement.
- d) The Board will hold at least one public hearing. In addition the Board will accept comments as appropriate pursuant to 35 Ill. Adm. Code 102 or 104.
- e) The Board will not grant relief from any of the following:
- 1) From the MCL for total coliforms. However, the Board may grant a variance from the total coliform MCL of Section 611.325 for PWSs that prove that the violation of the total coliform MCL is due to persistent growth of total coliform in the distribution system, rather than from fecal or pathogenic contamination, from a treatment lapse or deficiency, or from a problem in the operation or maintenance of the distribution system.
 - 2) From any of the treatment technique requirements of Subpart B of this Part.

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- 3) From the residual disinfectant concentration (RDC) requirements of Sections 611.241(c) and 611.242(b).
- f) The Agency must promptly send USEPA the opinion and order of the Board granting relief pursuant to this Section. The Board may reconsider and modify a grant of relief, or relief conditions, if USEPA notifies the Board of a finding pursuant to section 1415 of the SDWA (42 USC 300g-4).
- g) In addition to the requirements of this Section, the provisions of Section 611.130 or 611.131 may apply to relief granted pursuant to this Section.

BOARD NOTE: Derived from 40 CFR 141.4 ~~(2010)(2005)~~, from section 1415(a)(1)(A) and (a)(1)(B) of the SDWA ~~(42 USC 300g-4(a)(1)(A) and (a)(1)(B))~~ and from the "Guidance Manual for ~~Compliance with the Filtration and Disinfection Requirements for Public Water Systems using Surface Water Sources,~~" incorporated by reference in Section 611.102 and available from USEPA, NSCEP. USEPA has established a procedure at 40 CFR 142.23 (2010) reserved the discretion to review and potentially modify or nullify ~~state Board~~ determinations granting relief from NPDWRs where USEPA finds that the state has abused its discretion or failed to prescribe required schedules for compliance in a substantial number of instances made pursuant to this Section at 40 CFR 142.23 (2005).

(Source: Amended at 34 Ill. Reg. 19848, effective December 7, 2010)

Section 611.112 Relief Equivalent to SDWA Section 1416 Exemptions

This Section is intended to describe how the Board grants State relief equivalent to that available from USEPA under section 1416 of the SDWA (42 USC 300g-5). SDWA section 1416 exemptions do not require ultimate compliance within five years in every situation. Variances under Sections 35 ~~through 37-37~~ of the Act [415 ILCS 5/35-37] do require compliance within five years in every case. Consequently, a PWS may have the option of seeking State regulatory relief equivalent to a SDWA section 1416 exemption through one of three procedural mechanisms: a variance under Sections 35 ~~through 37-37~~ of the Act [415 ILCS 5/35-37] and Subpart B of 35 Ill. Adm. Code 104; a site-specific rule under Sections 27 ~~and 28-28~~ of the Act [415 ILCS 5/27-28] and 35 Ill. Adm. Code 102; or an adjusted standard under Section 28.1 of the Act [415 ILCS 5/28.1] and Subpart D of 35 Ill. Adm. 104.

- a) The Board will grant a PWS a variance, a site-specific rule, or an adjusted standard from an MCL or treatment technique requirement, or from both,

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pursuant to this Section.

- 1) The PWS must file a petition pursuant to 35 Ill. Adm. Code 102 or 104, as applicable.
 - 2) If a State requirement does not have a federal counterpart, the Board may grant relief from the State requirements without following this Section.
- b) As part of the justification for relief under this Section, the PWS must demonstrate the following:
- 1) Due to compelling factors (which may include economic factors), the PWS is unable to comply with the MCL or treatment technique requirement, or to implement measures to develop an alternative source of water supply;
 - 2) The PWS was either of the following:
 - A) In operation on the effective date of the MCL or treatment technique requirement; or
 - B) Not in operation on the effective date of the MCL or treatment technique requirement and no reasonable alternative source of drinking water is available to the PWS;
 - 3) The relief will not result in an unreasonable risk to health; and
 - 4) Management or restructuring changes cannot reasonably be made that will result in compliance with the NPDWR or, if compliance cannot be achieved, improve the quality of the drinking water.
- BOARD NOTE: In determining that management or restructuring changes cannot reasonably be made that will result in compliance with the NPDWR, the Board will consider the factors required by USEPA under 40 CFR 142.20(b)(1), [incorporated by reference in Section 611.102\(c\)](#).
- c) In any order granting relief under this Section, the Board will prescribe a schedule for the following:

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- 1) Compliance, including increments of progress, by the PWS, with each MCL and treatment technique requirement with respect to which the relief was granted; and
 - 2) Implementation by the PWS, of each additional control measure for each contaminant subject to the MCL or treatment technique requirement, with respect to which relief is granted.
- d) Schedule of compliance.

A schedule of compliance will require compliance with each MCL or treatment technique requirement with respect to which relief was granted as expeditiously as practicable, but not later than three years after the otherwise applicable compliance date established in section 1412(b)(10) of the SDWA (42 USC 300g-1(b)(10)), except as follows:

- 1) No relief may be granted unless the PWS establishes that it is taking all practicable steps to meet the NPDWR; and
 - A) The PWS cannot meet the NPDWR without capital improvements that cannot be completed within 12 months;
 - B) In the case of a PWS that needs financial assistance for the necessary improvements, the PWS has entered into an agreement to obtain such financial assistance; or
 - C) The PWS has entered into an enforceable agreement to become a part of a regional PWS.
 - 2) In the case of a PWS that serves 3,300 or fewer persons that needs financial assistance for the necessary improvements, relief may be renewed for one or more additional two year periods, not to exceed a total of six years, if the PWS establishes that it is taking all practicable steps to meet the final date for compliance.
 - 3) A PWS may not receive relief under this Section if the PWS was granted relief under Section 611.111 or 611.131.
- e) The Board will hold at least one public hearing. In addition the Board will accept

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comments as appropriate pursuant to 35 Ill. Adm. Code 102 or 104.

- f) The Agency must promptly send USEPA the Opinion and Order of the Board granting relief pursuant to this Section. The Board may reconsider and modify a grant of relief, or relief conditions, if USEPA notifies the Board of a finding pursuant to section 1416 of the SDWA (42 USC 300g-5).

BOARD NOTE: Derived from section 1416 of the SDWA (42 USC 300g-5).

- g) The Board will not grant relief from any of the following:
- 1) From the MCL for total coliforms. However, the Board may grant relief from the total coliform MCL of Section 611.325 for PWSs that prove that the violation of the total coliform MCL is due to persistent growth of total coliforms in the distribution system, rather than from fecal or pathogenic contamination, from a treatment lapse or deficiency, or from a problem in the operation or maintenance of the distribution system.
 - 2) From any of the treatment technique requirements of Subpart B of this Part.
 - 3) From the residual disinfectant concentration (RDC) requirements of Sections 611.241(c) and 611.242(b).
- h) In addition to the requirements of this Section, the provisions of Section 611.130 or 611.131 may apply to relief granted pursuant to this Section.

BOARD NOTE: Derived from 40 CFR 141.4 ~~(2010)(2002)~~. USEPA has established a procedure at 40 CFR 142.23 (2010) reserved the discretion to review and potentially modify or nullify ~~state~~ Board determinations granting relief from NPDWRs where USEPA finds that the state has abused its discretion or failed to prescribe required schedules for compliance in a substantial number of instances made pursuant to this Section at 40 CFR 142.23 (2002).

(Source: Amended at 34 Ill. Reg. 19848, effective December 7, 2010)

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

Section 611.381 Analytical Requirements

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- a) A supplier must use only the analytical methods specified in this Section or alternative methods approved by the Agency pursuant to Section 611.480 to demonstrate compliance with the requirements of this Subpart I and with the requirements of Subparts W and Y of this Part.
- b) Disinfection byproducts (DBPs).
 - 1) A supplier must measure disinfection byproducts (DBPs) by the appropriate of the following methods:
 - A) TTHM:
 - i) By purge and trap, gas chromatography, electrolytic conductivity detector, and photoionization detector: USEPA Organic Methods, Method 502.2 (rev. 2.1). If TTHMs are the only analytes being measured in the sample, then a photoionization detector is not required.
 - ii) By purge and trap, gas chromatography, mass spectrometer: USEPA Organic Methods, Method 524.2 (rev. 4.1).
 - iii) By liquid-liquid extraction, gas chromatography, electron capture detector: USEPA Organic Methods, Method 551.1 (rev. 1.0).
 - iv) By purge and trap, gas chromatography, mass spectrometry: USEPA OGWDW Methods, Method 524.3 (rev. 1.0).
 - B) HAA5:

BOARD NOTE: USEPA added USEPA OGWDW Methods, Method 524.3 (rev. 1.0) as an approved alternative method for TTHM in appendix A to subpart C of 40 CFR 141 on August 3, 2009 (at 74 Fed. Reg. 38348).

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- i) By liquid-liquid extraction (diazomethane), gas chromatography, electron capture detector: Standard Methods, 19th or 21st ed., Method 6251 B.

~~BOARD NOTE: On January 4, 2006 (at 71 Fed. Reg. 388), USEPA amended the entry for HAA5 by liquid-liquid extraction (diazomethane), gas chromatography, electron capture detector, in the table at corresponding 40 CFR 141.131(b)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 6251 B (as approved in 1994). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 6251 that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 6251 B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- ii) By solid phase extractor (acidic methanol), gas chromatography, electron capture detector: USEPA Organic Methods, Method 552.1 (rev. 1.0).

- iii) By liquid-liquid extraction (acidic methanol), gas chromatography, electron capture detector: USEPA Organic Methods, Method 552.2 (rev. 1.0) or USEPA OGWDW Methods, Method 552.3 (rev. 1.0).

- iv) By ion chromatography, electrospray ionization, tandem mass spectrometry: USEPA OGWDW Methods, Method 557.

BOARD NOTE: USEPA added Standard Methods, 21st ed., Method 6251 B as an approved alternative method for HAA5 in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616). USEPA added USEPA OGWDW Methods, Method 557 as approved alternative methods for HAA5 in

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appendix A to subpart C of 40 CFR 141 on November 10, 2009 (at 74 Fed. Reg. 57908).

- C) Bromate:
- i) By ion chromatography: USEPA Organic and Inorganic Methods, Method 300.1 (rev. 1.0).
 - ii) By ion chromatography and post-column reaction: USEPA OGWDW Methods, Method 317.0; (rev 2.0), or 326.0; (rev. 1.0).
 - iii) By inductively coupled plasma/mass spectrometer: USEPA Organic and Inorganic Methods, Method 321.8 (rev. 1.0).
 - iv) By two-dimensional ion chromatography: USEPA OGWDW Methods, Method 302.0.
 - v) By ion chromatography, electrospray ionization, tandem mass spectrometry: USEPA OGWDW Methods, Method 557.
 - vi) By chemically suppressed chromatography: ASTM Method D6581-08 A.
 - vii) By electrolytically suppressed chromatography: ASTM Method D6581-08 B.

BOARD NOTE: Ion chromatography and post column reaction or inductively coupled plasma/mass spectrometry must be used for monitoring of bromate for purposes of demonstrating eligibility of reduced monitoring, as prescribed in Section 611.382(b)(3)(B). For inductively-coupled plasma – mass spectrometry, samples must be preserved at the time of sampling with 50 mg ethylenediamine (EDA) per liter of sample, and the samples must be analyzed within 28 days.

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BOARD NOTE: USEPA added USEPA OGWDW Methods, Methods 302.0 and 557 and ASTM Methods D6581-08 A and B as approved alternative methods for bromate in appendix A to subpart C of 40 CFR 141 on November 10, 2009 (at 74 Fed. Reg. 57908).

D) Chlorite:

- i) By amperometric titration: Standard Methods, 19th or 21st ed., Method 4500-ClO₂ E.

~~BOARD NOTE: On January 4, 2006 (at 71 Fed. Reg. 388), USEPA amended the entry for chlorite by amperometric titration, in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 4500-ClO₂ E (as approved in 2000). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 4500-ClO₂ that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 4500-ClO₂ E from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- ii) By spectrophotometry: USEPA OGWDW Methods, Method 327.0; (rev. 1.1).
- iii) By ion chromatography: USEPA Environmental Inorganic Methods, Method 300.0 (rev. 2.1); USEPA Organic and Inorganic Methods, Method 300.1 (rev. 1.0); USEPA OGWDW Methods, Method 317.0; (rev. 2.0), or 326.0; (rev. 1.0); or ASTM Method D6581-00.
- iv) By chemically suppressed chromatography: ASTM Method D6581-08 A.
- v) By electrolytically suppressed chromatography: ASTM Method D6581-08 B.

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BOARD NOTE: USEPA added Standard Methods, 21st ed., Method 4500-ClO₂ E as an approved alternative method for daily chlorite in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616). USEPA added ASTM Methods D6581-08 A and B as approved alternative methods for chlorite in appendix A to subpart C of 40 CFR 141 on November 10, 2009 (at 74 Fed. Reg. 57908).

BOARD NOTE: Amperometric titration or spectrophotometry may be used for routine daily monitoring of chlorite at the entrance to the distribution system, as prescribed in Section 611.382(b)(2)(A)(i). Ion chromatography must be used for routine monthly monitoring of chlorite and additional monitoring of chlorite in the distribution system, as prescribed in Section 611.382(b)(2)(A)(ii) and (b)(2)(B).

- 2) Analyses under this Section for DBPs must be conducted by laboratories that have received certification by USEPA or the Agency except as specified under subsection (b)(3) of this Section. To receive certification to conduct analyses for the DBP contaminants listed in Sections 611.312 and 611.381 and Subparts W and Y of this Part, the laboratory must fulfill the requirements of subsections (b)(2)(A), (b)(2)(C), and (b)(2)(D) of this Section.
 - A) The laboratory must analyze performance evaluation (PE) samples that are acceptable to USEPA or the Agency at least once during each consecutive 12-month period by each method for which the laboratory desires certification.
 - B) This subsection corresponds with 40 CFR 141.131(b)(2)(ii), which has expired by its own terms. This statement maintains structural consistency with the corresponding federal rule.
 - C) The laboratory must achieve quantitative results on the PE sample analyses that are within the acceptance limits set forth in subsections (b)(2)(C)(i) through (b)(2)(B)(xi) of this Section, subject to the conditions of subsections (b)(2)(C)(xii) and (b)(2)(C)(xiii) of this Section:

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- i) Chloroform (a THM): $\pm 20\%$ of true value;
 - ii) Bromodichloromethane (a THM): $\pm 20\%$ of true value;
 - iii) Dibromochloromethane (a THM): $\pm 20\%$ of true value;
 - iv) Bromoform (a THM): $\pm 20\%$ of true value;
 - v) Monochloroacetic Acid (an HAA5): $\pm 40\%$ of true value;
 - vi) Dichloroacetic Acid (an HAA5): $\pm 40\%$ of true value;
 - vii) Trichloroacetic Acid (an HAA5): $\pm 40\%$ of true value;
 - viii) Monobromoacetic Acid (an HAA5): $\pm 40\%$ of true value;
 - ix) Dibromoacetic Acid (an HAA5): $\pm 40\%$ of true value;
 - x) Chlorite: $\pm 30\%$ of true value; and
 - xi) Bromate: $\pm 30\%$ of true value.
 - xii) The laboratory must meet all four of the individual THM acceptance limits set forth in subsections (b)(2)(B)(i) through (b)(2)(B)(iv) of this Section in order to successfully pass a PE sample for TTHM.
 - xiii) The laboratory must meet the acceptance limits for four out of the five HAA5 compounds set forth in subsections (b)(2)(B)(v) through (b)(2)(B)(ix) of this Section in order to successfully pass a PE sample for HAA5.
- D) The laboratory must report quantitative data for concentrations at least as low as the minimum reporting levels (MRLs) listed in subsections (b)(2)(D)(i) through (b)(2)(D)(xi) of this Section, subject to the limitations of subsections (b)(2)(D)(xii) and (b)(2)(D)(xiii) of this Section, for all DBP samples analyzed for compliance with Sections 611.312 and 611.385 and Subparts W and Y of this Part:

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- i) Chloroform (a THM): 0.0010 mg/ℓ;
- ii) Bromodichloromethane (a THM): 0.0010 mg/ℓ;
- iii) Dibromochloromethane (a THM): 0.0010 mg/ℓ;
- iv) Bromoform (a THM): 0.0010 mg/ℓ;
- v) Monochloroacetic Acid (an HAA5): 0.0020 mg/ℓ;
- vi) Dichloroacetic Acid (an HAA5): 0.0010 mg/ℓ;
- vii) Trichloroacetic Acid (an HAA5): 0.0010 mg/ℓ;
- viii) Monobromoacetic Acid (an HAA5): 0.0010 mg/ℓ;
- ix) Dibromoacetic Acid (an HAA5): 0.0010 mg/ℓ;
- x) Chlorite: 0.020 mg/ℓ, applicable to monitoring as required by Section 611.382(b)(2)(A)(ii) and (b)(2)(B); and
- xi) Bromate: 0.0050, or 0.0010 mg/ℓ if the laboratory uses USEPA OGWDW Methods, Method 317.0, ~~rev. 2.0~~, or 326.0 or USEPA Organic and Inorganic Methods, Method 321.8.
- xii) The calibration curve must encompass the regulatory MRL concentration. Data may be reported for concentrations lower than the regulatory MRL as long as the precision and accuracy criteria are met by analyzing an MRL check standard at the lowest reporting limit chosen by the laboratory. The laboratory must verify the accuracy of the calibration curve at the MRL concentration by analyzing an MRL check standard with a concentration less than or equal to 110% of the MRL with each batch of samples. The measured concentration for the MRL check standard must be $\pm 50\%$ of the expected value, if any field sample in the batch has a concentration less than five times the

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regulatory MRL. Method requirements to analyze higher concentration check standards and meet tighter acceptance criteria for them must be met in addition to the MRL check standard requirement.

- xiii) When adding the individual trihalomethane or haloacetic acid concentrations, for the compounds listed in subsections (b)(2)(D)(v) through (b)(2)(D)(ix) of this Section, to calculate the TTHM or HAA5 concentrations, respectively, a zero is used for any analytical result that is less than the MRL concentration for that DBP, unless otherwise specified by the Agency.
- 3) A party approved by USEPA or the Agency must measure daily chlorite samples at the entrance to the distribution system.
- c) Disinfectant residuals.
- 1) A supplier must measure residual disinfectant concentrations for free chlorine, combined chlorine (chloramines), and chlorine dioxide by the appropriate of the methods listed in subsections (c)(1)(A) through (c)(1)(D) of this Section, subject to the provisions of subsection (c)(1)(E) of this Section:
 - A) Free Chlorine:
 - i) Amperometric titration: ~~using~~ Standard Methods, 19th, 20th, or 21st ed., Method 4500-C1 D, or ASTM Method ~~D1253-86~~~~1253-86~~, ~~D1253-96~~~~1253-96~~, ~~D1253-03~~, or ~~D1253-08~~~~1253-03~~;
 - ii) DPD ferrous titration: ~~using~~ Standard Methods, 19th, 20th, or 21st ed., Method 4500-C1 F;
 - iii) DPD colorimetric: ~~using~~ Standard Methods, 19th, 20th, or 21st ed., Method 4500-C1 G; or
 - iv) Syringaldazine (FACTS): ~~using~~ Standard Methods, 19th, 20th, or 21st ed., Method 4500-C1 H.

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- v) Test strips: ITS Method D99-003 if approved by the Agency pursuant to subsection (c)(2) of this Section.
- v) Amperometric sensor: Palintest ChloroSense.
- vi) On-line chlorine analyzer: USEPA OGWDW Methods, Method 334.0.

BOARD NOTE: USEPA added Standard Methods, 21st ed., Methods 4500-Cl D, F, G, and H as approved alternative methods for free chlorine in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616). USEPA added ASTM Method D1253-08, USEPA OGWDW Methods, Method 334.0, and Palintest ChloroSense as approved alternative methods for free chlorine in appendix A to subpart C of 40 CFR 141 on November 10, 2009 (at 74 Fed. Reg. 57908).

B) Combined Chlorine:

- i) Amperometric titration: ~~using~~ Standard Methods, 19th, 20th, or 21st ed., Method 4500-Cl D, or ASTM Method ~~D1253-86, D1253-96, D1253-96, or D1253-03, or D1253-08~~ D1253-08;
- ii) DPD ferrous titration: ~~using~~ Standard Methods, 19th, 20th, or 21st ed., Method 4500-Cl F; or
- iii) DPD colorimetric: ~~using~~ Standard Methods, 19th, 20th, or 21st ed., Method 4500-Cl G.

BOARD NOTE: USEPA added Standard Methods, Methods 4500-Cl D, F, and G as approved alternative methods for free chlorine in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616). USEPA added ASTM Method D1253-08 as an approved alternative method for combined chlorine in appendix A to subpart C of 40 CFR 141 on November 10, 2009 (at 74 Fed. Reg. 57908).

C) Total Chlorine:

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- i) Amperometric titration using Standard Methods, 19th, 20th, or 21st ed., Method 4500-CI D, or ASTM Method D1253-861253-86, D1253-961253-96, ~~or D1253-03~~, or D1253-081253-03;
- ii) Low-level amperometric titration: ~~using~~ Standard Methods, 19th, 20th, or 21st ed., Method 4500-CI E;
- iii) DPD ferrous titration: ~~using~~ Standard Methods, 19th, 20th, or 21st ed., Method 4500-CI F;
- iv) DPD colorimetric: ~~using~~ Standard Methods, 19th, 20th, or 21st ed., Method 4500-CI G; or
- v) Iodometric electrode: ~~using~~ Standard Methods, 19th, 20th, or 21st ed., Method 4500-CI I.
- vi) Amperometric sensor: Palintest ChloroSense.
- vii) On-line chlorine analyzer: USEPA OGWDW Methods, Method 334.0.

BOARD NOTE: USEPA added Standard Methods, Methods 4500-CI D, E, F, G, and I as approved alternative methods for free chlorine in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616). USEPA added ASTM Method D1253-08, USEPA OGWDW Methods, Method 334.0, and Palintest ChloroSense as approved alternative methods for total chlorine in appendix A to subpart C of 40 CFR 141 on November 10, 2009 (at 74 Fed. Reg. 57908).

D) Chlorine Dioxide:

- i) DPD: ~~using~~ Standard Methods, 19th, 20th, or 21st ed., Method 4500-CI O₂ D;
- ii) Amperometric Method II: ~~using~~ Standard Methods, 19th, 20th, or 21st ed., Method 4500-CI O₂ E; or

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- iii) Lissamine Green spectrophotometric; ~~using~~ USEPA OGWDW Method 327.0 (rev. 1.1).

BOARD NOTE: USEPA added Standard Methods, 21st ed., Methods 4500-ClO₂ D and E as approved alternative methods for chlorine dioxide in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616).

- E) The methods listed are approved for measuring the specified disinfectant residual. The supplier may measure free chlorine or total chlorine for demonstrating compliance with the chlorine MRDL and combined chlorine, or total chlorine may be measured for demonstrating compliance with the chloramine MRDL.

~~BOARD NOTE: On January 4, 2006 (at 71 Fed. Reg. 388), USEPA amended the entries for free chlorine, combined chlorine, and chlorine dioxide in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 4500-Cl D, E, F, G, H, or I or Method 4500-ClO₂-E (as approved in 2000). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the versions of Method 4500-Cl and Method 4500-ClO₂ that appear in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 4500-Cl D, E, F, G, H, or I or Method 4500-ClO₂-E from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- 2) Alternative methods available only upon specific approval by the Agency Test strips.

- A) Test strips: ITS Method D99-003.

BOARD NOTE: USEPA added ITS Method D99-003 as an approved alternative method for free chlorine in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616), contingent upon specific state approval. The Board has

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opted to provide that the Agency can grant such approvals on a case-by-case basis using the SEP mechanism.

- B) If approved by the Agency, by an SEP issued pursuant to Section 611.110, a supplier may also measure residual disinfectant concentrations for chlorine, chloramines, and chlorine dioxide by using DPD colorimetric test kits.
- 3) A party approved by USEPA or the Agency must measure residual disinfectant concentration.
- d) A supplier required to analyze parameters not included in subsections (b) and (c) of this Section must use the methods listed below. A party approved by USEPA or the Agency must measure the following parameters:
- 1) Alkalinity. All methods allowed in Section 611.611(a)(21) for measuring alkalinity.
 - 2) Bromide:
 - A) USEPA Inorganic Methods, Method 300.0 (rev. 2.1);
 - B) USEPA Organic and Inorganic Methods, Method 300.1 (rev. 1.0);
 - C) USEPA OGWDW Methods, Method 317.0 (rev. 2.0) or Method 326.0 (rev. 1.0); or
 - D) ASTM Method D6581-00.
 - 3) Total Organic Carbon (TOC), by any of the methods listed in subsection (d)(3)(A)(i), (d)(3)(A)(ii), (d)(3)(A)(iii), or (d)(3)(B) of this Section, subject to the limitations of subsection (d)(3)(C) of this Section:
 - A) High-temperature combustion Standard Methods, 19th, 20th, or 21st ed., using one of the following methods:
 - i) Standard Methods, 19th, 20th, or 21st ed., Method 5310 B (High-Temperature Combustion Method); or

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ii) ~~USEPA NERL Method 415.3 (rev. 1.2), Method 5310-C (Persulfate-Ultraviolet or Heated-Persulfate Oxidation Method); or~~

iii) ~~Method 5310-D (Wet-Oxidation Method).~~

~~BOARD NOTE: On January 4, 2006 (at 71 Fed. Reg. 388), USEPA amended the entries for total organic carbon, high-temperature combustion, persulfate-ultraviolet or heated persulfate, and wet oxidation at corresponding 40 CFR 141.131(d)(3) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 5310-B, C, or D (as approved in 2000). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 5310-B, C, or D that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 5310-B, C, or D from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

B) Persulfate-ultraviolet or heated-persulfate oxidation:

i) Standard Methods, 19th, 20th, or 21st ed., Method 5310 C; or

ii) USEPA NERL Method 415.3 (rev. 1.2).

C) Wet oxidation method:

i) Standard Methods, 19th, 20th, or 21st ed., Method 5310 D;
or

ii) USEPA NERL Method 415.3 (rev. 1.2).

~~DB) Specific UV₂₅₄ absorbance: USEPA NERL Method~~Method 415.3
(rev. 1.1) or 415.3 (rev. 1.2).

~~EC) Inorganic carbon must be removed from the samples prior to analysis. TOC samples may not be filtered prior to analysis. TOC~~

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samples must be acidified at the time of sample collection to achieve pH less than or equal to 2 with minimal addition of the acid specified in the method or by the instrument manufacturer. Acidified TOC samples must be analyzed within 28 days.

BOARD NOTE: USEPA added Standard Methods, 21st ed., Methods 5310 B, C, and D as approved alternative methods for total organic carbon in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616). USEPA added USEPA NERL Method 415.3 (rev. 1.2) as an approved alternative method for total organic carbon in appendix A to subpart C of 40 CFR 141 on November 10, 2009 (at 74 Fed. Reg. 57908).

- 4) Specific Ultraviolet Absorbance (SUVA). SUVA is equal to the UV absorption at 254 nm (UV_{254}) (measured in m^{-1}) divided by the dissolved organic carbon (DOC) concentration (measured as mg/l). In order to determine SUVA, it is necessary to separately measure UV_{254} and DOC. When determining SUVA, a supplier must use the methods stipulated in subsection (d)(4)(A) of this Section to measure DOC and the method stipulated in subsection (d)(4)(B) of this Section to measure UV_{254} . SUVA must be determined on water prior to the addition of disinfectants/oxidants by the supplier. DOC and UV_{254} samples used to determine a SUVA value must be taken at the same time and at the same location.
- A) Dissolved Organic Carbon (DOC). ~~Standard Methods, 19th ed., 20th ed., or 21st ed., Method 5310 B (High Temperature Combustion Method), Method 5310 C (Persulfate-Ultraviolet or Heated-Persulfate Oxidation Method), or Method 5310 D (Wet-Oxidation Method) or USEPA NERL Method 415.3 (rev. 1.1).~~ Prior to analysis, DOC samples must be filtered through the 0.45 μm pore-diameter filter as soon as practical after sampling, not to exceed 48 hours. After filtration, DOC samples must be acidified to achieve pH less than or equal to 2 with minimal addition of the acid specified in the method or by the instrument manufacturer. Acidified DOC samples must be analyzed within 28 days after sample collection. Inorganic carbon must be removed from the samples prior to analysis. Water passed through the filter prior to filtration of the sample must serve as the filtered blank. This filtered blank must be analyzed using procedures identical to those used for

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analysis of the samples and must meet the following standards:
DOC less than 0.5 mg/ℓ. ~~and~~

- i) High-Temperature Combustion Method: Standard Methods, 19th ed., 20th ed., or 21st ed., Method 5310 B or USEPA NERL Methods 415.3 (rev. 1.1) or 415.3 (rev. 1.2).
- ii) Persulfate-Ultraviolet or Heated-Persulfate Oxidation Method, Method 5310 C or USEPA NERL Methods 415.3 (rev. 1.1) or 415.3 (rev. 1.2).
- iii) Wet-Oxidation Method: Standard Methods, 19th ed., 20th ed., or 21st ed., Method 5310 D or USEPA NERL Methods 415.3 (rev. 1.1) or 415.3 (rev. 1.2).

BOARD NOTE: ~~On January 4, 2006 (at 71 Fed. Reg. 388), USEPA amended the entries for specific ultraviolet absorbance-dissolved organic carbon at corresponding 40 CFR 141.131(d)(4)(i) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 5310 B, C, or D (as approved in 2000). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 5310 B, C, or D that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 5310 B, C, or D from the 21st edition of Standard Methods~~ USEPA added Standard Methods, Methods 5310 B, C, and D as an approved alternative methods for dissolved organic carbon method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616). USEPA added USEPA NERL Method 415.3 (rev. 1.2) as an approved alternative method for dissolved organic carbon in appendix A to subpart C of 40 CFR 141 on November 10, 2009 (at 74 Fed. Reg. 57908).

- B) ~~Ultraviolet Absorption at 254 nm (UV₂₅₄)-~~ by spectrometry: Standard Methods, 19th, 20th, or 21st ed., Method 5910 B (Ultraviolet Absorption Method) or USEPA NERL Method 415.3 (rev. 1.1) or 415.3 (rev. 1.2). UV absorption must be measured at 253.7 nm (may be rounded off to 254 nm). Prior to analysis, UV₂₅₄

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samples must be filtered through a 0.45 µm pore-diameter filter. The pH of UV₂₅₄ samples may not be adjusted. Samples must be analyzed as soon as practical after sampling, not to exceed 48 hours; and

BOARD NOTE: ~~On January 4, 2006 (at 71 Fed. Reg. 388), USEPA amended the entries for specific ultraviolet absorbance-ultraviolet absorption at 254 nm at corresponding 40 CFR 141.131(d)(4)(ii) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 5910 B (as approved in 2000). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 5910 B that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 5910 B from the 21st edition of Standard Methods USEPA added Standard Methods, 21st ed., Method 5910 B as an approved alternative method for ultraviolet absorbtion in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616). USEPA added USEPA NERL Method 415.3 (rev. 1.2) as an approved alternative method for ultraviolet absorbance in appendix A to subpart C of 40 CFR 141 on November (at 74 Fed. Reg. 57908).~~

- 5) pH. All methods allowed in Section 611.611(a)(17) for measuring pH.
- 6) Magnesium. All methods allowed in Section 611.611(a) for measuring magnesium.

BOARD NOTE: Derived from 40 CFR 141.131 ~~(2007)~~ and appendix A to 40 CFR 141 ~~(2009)~~, as added at 73 Fed. Reg. 31616 (June 3, 2008).

(Source: Amended at 34 Ill. Reg. 19848, effective December 7, 2010)

Section 611.382 Monitoring Requirements

- a) General requirements.
 - 1) A supplier must take all samples during normal operating conditions.

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- 2) A supplier may consider multiple wells drawing water from a single aquifer as one treatment plant for determining the minimum number of TTHM and HAA5 samples required with Agency approval.
 - 3) Failure to monitor in accordance with the monitoring plan required under subsection (f) of this Section is a monitoring violation.
 - 4) Where compliance is based on a running annual average of monthly or quarterly samples or averages and the supplier's failure to monitor makes it impossible to determine compliance with MCLs or MRDLs, this failure to monitor will be treated as a violation for the entire period covered by the annual average.
 - 5) A supplier must use only data collected under the provisions of this Subpart I to qualify for reduced monitoring.
- b) Monitoring requirements for disinfection byproducts (DBPs).
- 1) TTHMs and HAA5.
 - A) Routine monitoring. A supplier must monitor at the following frequency:
 - i) A Subpart B system supplier that serves 10,000 or more persons must collect four water samples per quarter per treatment plant. At least 25 percent of all samples collected each quarter must be collected at locations representing maximum residence time. The remaining samples may be taken at locations representative of at least average residence time in the distribution system and representing the entire distribution system, taking into account the number of persons served, the different sources of water, and the different treatment methods.
 - ii) A Subpart B system supplier that serves from 500 to 9,999 persons must collect one water sample per quarter per treatment plant. The samples must be collected from locations representing maximum residence time.

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- iii) A Subpart B system supplier that serves fewer than 500 persons must collect one sample per year per treatment plant during month of warmest water temperature. The samples must be collected from locations representing maximum residence time. If the sample (or average of annual samples, if more than one sample is taken) exceeds the MCL, the supplier must increase the monitoring frequency to one sample per treatment plant per quarter, taken at a point reflecting the maximum residence time in the distribution system, until the supplier meets the standards in subsection (b)(1)(D) of this Section.
- iv) A supplier that uses only groundwater not under direct influence of surface water, which uses chemical disinfectant, and which serves 10,000 or more persons must collect one water sample per quarter per treatment plant. The samples must be collected from locations representing maximum residence time.
- v) A supplier that uses only groundwater not under direct influence of surface water, which uses chemical disinfectant, and which serves fewer than 10,000 persons must collect one sample per year per treatment plant during month of warmest water temperature. The samples must be collected from locations representing maximum residence time. If the sample (or average of annual samples, if more than one sample is taken) exceeds MCL, the supplier must increase monitoring to one sample per treatment plant per quarter, taken at a point reflecting the maximum residence time in the distribution system, until the supplier meets standards in subsection (b)(1)(D) of this Section.

BOARD NOTE: If a supplier elects to sample more frequently than the minimum required, at least 25 percent of all samples collected each quarter (including those taken in excess of the required frequency) must be taken at locations that represent the maximum residence time of the water in the distribution system. The remaining samples must be taken at locations representative of at least average residence time in the distribution system. For a

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supplier using groundwater not under the direct influence of surface water, multiple wells drawing water from a single aquifer may be considered one treatment plant for determining the minimum number of samples required, with Agency approval.

- B) A supplier may reduce monitoring, except as otherwise provided, in accordance with the following:
- i) A Subpart B system supplier that serves 10,000 or more persons and which has a source water annual average TOC level, before any treatment, of less than or equal to 4.0 mg/ℓ may reduce monitoring if it has monitored for at least one year and its TTHM annual average is less than or equal to 0.040 mg/ℓ and HAA5 annual average is less than or equal to 0.030 mg/ℓ. The reduced monitoring allowed is a minimum of one sample per treatment plant per quarter at a distribution system location reflecting maximum residence time.
 - ii) A Subpart B system supplier that serves from 500 to 9,999 persons and which has a source water annual average TOC level, before any treatment, of less than or equal to 4.0 mg/ℓ may reduce monitoring if it has monitored at least one year and its TTHM annual average is less than or equal to 0.040 mg/ℓ and HAA5 annual average is less than or equal to 0.030 mg/ℓ. The reduced monitoring allowed is a minimum of one sample per treatment plant per year at a distribution system location reflecting maximum residence time during month of warmest water temperature.

BOARD NOTE: Any Subpart B system supplier that serves fewer than 500 persons may not reduce its monitoring to less than one sample per treatment plant per year.
 - iii) A supplier using only groundwater not under direct influence of surface water using chemical disinfectant and that serves 10,000 or more persons may reduce monitoring if it has monitored at least one year and its TTHM annual

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average is less than or equal to 0.040 mg/ℓ and HAA5 annual average is less than or equal to 0.030 mg/ℓ. The reduced monitoring allowed is a minimum of one sample per treatment plant per year at a distribution system location reflecting maximum residence time during month of warmest water temperature.

- iv) A supplier using only groundwater not under direct influence of surface water that uses chemical disinfectant and which serves fewer than 10,000 persons may reduce monitoring if it has monitored at least one year and its TTHM annual average is less than or equal to 0.040 mg/ℓ and HAA5 annual average is less than or equal to 0.030 mg/ℓ for two consecutive years or TTHM annual average is less than or equal to 0.020 mg/ℓ and HAA5 annual average is less than or equal to 0.015 mg/ℓ for one year. The reduced monitoring allowed is a minimum of one sample per treatment plant per three year monitoring cycle at a distribution system location reflecting maximum residence time during month of warmest water temperature, with the three-year cycle beginning on January 1 following the quarter in which the supplier qualifies for reduced monitoring.

- C) Monitoring requirements for source water TOC. In order to qualify for reduced monitoring for TTHM and HAA5 under subsection (b)(1)(B) of this Section, a Subpart B system supplier not monitoring under the provisions of subsection (d) of this Section must take monthly TOC samples every 30 days at a location prior to any treatment, beginning no later than April 1, 2008. In addition to meeting other criteria for reduced monitoring in subsection (b)(1)(B) of this Section, the source water TOC running annual average must be ≤ 4.0 mg/ℓ (based on the most recent four quarters of monitoring) on a continuing basis at each treatment plant to reduce or remain on reduced monitoring for TTHM and HAA5. Once qualified for reduced monitoring for TTHM and HAA5 under subsection (b)(1)(B) of this Section, a system may reduce source water TOC monitoring to quarterly TOC samples taken every 90 days at a location prior to any

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treatment.

- D) A Subpart B system supplier on a reduced monitoring schedule may remain on that reduced schedule as long as the average of all samples taken in the year (for a supplier that must monitor quarterly) or the result of the sample (for a supplier that must monitor no more frequently than annually) is no more than 0.060 mg/l and 0.045 mg/l for TTHMs and HAA5, respectively. A supplier that does not meet these levels must resume monitoring at the frequency identified in subsection (b)(1)(A) of this Section in the quarter immediately following the monitoring period in which the supplier exceeds 0.060 mg/l for TTHMs or 0.045 mg/l for HAA5. For a supplier that uses only groundwater not under the direct influence of surface water and which serves fewer than 10,000 persons, if either the TTHM annual average is greater than 0.080 mg/l or the HAA5 annual average is greater than 0.060 mg/l, the supplier must go to increased monitoring identified in subsection (b)(1)(A) of this Section in the quarter immediately following the monitoring period in which the supplier exceeds 0.080 mg/l for TTHMs or 0.060 mg/l for HAA5.
- E) The Agency may return a supplier to routine monitoring.
- 2) Chlorite. A CWS or NTNCWS supplier using chlorine dioxide, for disinfection or oxidation, must conduct monitoring for chlorite.
- A) Routine monitoring.
- i) Daily monitoring. A supplier must take daily samples at the entrance to the distribution system. For any daily sample that exceeds the chlorite MCL, the supplier must take additional samples in the distribution system the following day at the locations required by subsection (b)(2)(B) of this Section, in addition to the sample required at the entrance to the distribution system.
- ii) Monthly monitoring. A supplier must take a three-sample set each month in the distribution system. The supplier must take one sample at each of the following locations:

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near the first customer, at a location representative of average residence time, and at a location reflecting maximum residence time in the distribution system. Any additional routine sampling must be conducted in the same manner (as three-sample sets, at the specified locations). The supplier may use the results of additional monitoring conducted under subsection (b)(2)(B) of this Section to meet the requirement for monitoring in this subsection (b)(2)(A)(ii).

- B) Additional monitoring. On each day following a routine sample monitoring result that exceeds the chlorite MCL at the entrance to the distribution system, the supplier must take three chlorite distribution system samples at the following locations: as close to the first customer as possible, in a location representative of average residence time, and as close to the end of the distribution system as possible (reflecting maximum residence time in the distribution system).
- C) Reduced monitoring.
- i) Chlorite monitoring at the entrance to the distribution system required by subsection (b)(2)(A)(i) of this Section may not be reduced.
 - ii) Chlorite monitoring in the distribution system required by subsection (b)(2)(A)(ii) of this Section may be reduced to one three-sample set per quarter after one year of monitoring where no individual chlorite sample taken in the distribution system under subsection (b)(2)(A)(ii) of this Section has exceeded the chlorite MCL and the supplier has not been required to conduct monitoring under subsection (b)(2)(B) of this Section. The supplier may remain on the reduced monitoring schedule until either any of the three individual chlorite samples taken quarterly in the distribution system under subsection (b)(2)(A)(ii) of this Section exceeds the chlorite MCL or the supplier is required to conduct monitoring under subsection (b)(2)(B) of this Section, at which time the supplier must revert to

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routine monitoring.

- 3) Bromate.
- A) Routine monitoring. A CWS or NTNCWS supplier using ozone, for disinfection or oxidation, must take one sample per month for each treatment plant in the system using ozone. A supplier must take samples monthly at the entrance to the distribution system while the ozonation system is operating under normal conditions.
- B) Reduced monitoring.
- i) Until March 31, 2009, a supplier required to analyze for bromate may reduce monitoring from monthly to quarterly, if the supplier demonstrates that the average source water bromide concentration is less than 0.05 mg/ℓ based on representative monthly bromide measurements for one year. The supplier may remain on reduced bromate monitoring until the running annual average source water bromide concentration, computed quarterly, is equal to or greater than 0.05 mg/ℓ based on representative monthly measurements. If the running annual average source water bromide concentration is equal to or greater than 0.05 mg/ℓ, the supplier must resume routine monitoring required by subsection (b)(3)(A) of this Section in the following month.
- ii) Beginning April 1, 2009, a Subpart B system supplier may no longer use the provisions of subsection (b)(3)(B)(i) of this Section to qualify for reduced monitoring. A supplier required to analyze for bromate may reduce monitoring from monthly to quarterly, if the supplier's running annual average bromate concentration is not greater than 0.0025 mg/ℓ based on monthly bromate measurements under subsection (b)(3)(A) of this Section for the most recent four quarters, with samples analyzed using USEPA OGWDW Methods, Method 302.0, Method 317.0 (rev. 2.0), ~~or~~ Method 326.0 (rev. 1.0), or Method 557 or USEPA Organic and Inorganic Methods, Method 321.8. If a supplier has qualified for reduced bromate monitoring under subsection

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(b)(3)(B)(i) of this Section, that supplier may remain on reduced monitoring as long as the running annual average of quarterly bromate samples not greater than 0.0025 mg/ℓ based on samples analyzed using USEPA OGWDW Methods, [Method 302.0](#), Method 317.0 ~~(rev. 2.0)~~, or Method 326.0 ~~(rev. 1.0)~~, or [Method 557](#) or USEPA Organic and Inorganic Methods, Method 321.8. If the running annual average bromate concentration is greater than 0.0025 mg/ℓ, the supplier must resume routine monitoring required by subsection (b)(3)(A) of this Section.

- c) Monitoring requirements for disinfectant residuals.
- 1) Chlorine and chloramines.
 - A) Routine monitoring. A CWS or NTNCWS supplier that uses chlorine or chloramines must measure the residual disinfectant level in the distribution system at the same point in the distribution system and at the same time as total coliforms are sampled, as specified in Section 611.521. A Subpart B system supplier may use the results of residual disinfectant concentration sampling conducted under Section 611.532 for unfiltered systems or Section 611.533 for systems that filter, in lieu of taking separate samples.
 - B) Reduced monitoring. Monitoring may not be reduced.
 - 2) Chlorine dioxide.
 - A) Routine monitoring. A CWS, an NTNCWS, or a transient non-CWS supplier that uses chlorine dioxide for disinfection or oxidation must take daily samples at the entrance to the distribution system. For any daily sample that exceeds the MRDL, the supplier must take samples in the distribution system the following day at the locations required by subsection (c)(2)(B) of this Section, in addition to the sample required at the entrance to the distribution system.
 - B) Additional monitoring. On each day following a routine sample monitoring result that exceeds the MRDL, the supplier must take

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three chlorine dioxide distribution system samples. If chlorine dioxide or chloramines are used to maintain a disinfectant residual in the distribution system, or if chlorine is used to maintain a disinfectant residual in the distribution system and there are no disinfection addition points after the entrance to the distribution system (i.e., no booster chlorination), the supplier must take three samples as close to the first customer as possible, at intervals of at least six hours. If chlorine is used to maintain a disinfectant residual in the distribution system and there are one or more disinfection addition points after the entrance to the distribution system (i.e., booster chlorination), the supplier must take one sample at each of the following locations: as close to the first customer as possible, in a location representative of average residence time, and as close to the end of the distribution system as possible (reflecting maximum residence time in the distribution system).

- C) Reduced monitoring. Monitoring may not be reduced.
- d) Monitoring requirements for disinfection byproduct (DBP) precursors.
 - 1) Routine monitoring. A Subpart B system supplier that uses conventional filtration treatment (as defined in Section 611.101) must monitor each treatment plant for TOC not past the point of combined filter effluent turbidity monitoring and representative of the treated water. A supplier required to monitor under this subsection (d)(1) must also monitor for TOC in the source water prior to any treatment at the same time as monitoring for TOC in the treated water. These samples (source water and treated water) are referred to as paired samples. At the same time as the source water sample is taken, a system must monitor for alkalinity in the source water prior to any treatment. A supplier must take one paired sample and one source water alkalinity sample per month per plant at a time representative of normal operating conditions and influent water quality.
 - 2) Reduced monitoring. A Subpart B system supplier with an average treated water TOC of less than 2.0 mg/l for two consecutive years, or less than 1.0 mg/l for one year, may reduce monitoring for both TOC and alkalinity to one paired sample and one source water alkalinity sample per plant per

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quarter. The supplier must revert to routine monitoring in the month following the quarter when the annual average treated water TOC greater than or equal to 2.0 mg/ℓ.

- e) Bromide. A supplier required to analyze for bromate may reduce bromate monitoring from monthly to once per quarter, if the supplier demonstrates that the average source water bromide concentration is less than 0.05 mg/ℓ based upon representative monthly measurements for one year. The supplier must continue bromide monitoring to remain on reduced bromate monitoring.
- f) Monitoring plans. Each supplier required to monitor under this Subpart I must develop and implement a monitoring plan. The supplier must maintain the plan and make it available for inspection by the Agency and the general public no later than 30 days following the applicable compliance dates in Section 611.380(b). A Subpart B system supplier that serves more than 3,300 persons must submit a copy of the monitoring plan to the Agency no later than the date of the first report required under Section 611.384. After review, the Agency may require changes in any plan elements. The plan must include at least the following elements:
 - 1) Specific locations and schedules for collecting samples for any parameters included in this Subpart I;
 - 2) How the supplier will calculate compliance with MCLs, MRDLs, and treatment techniques; and
 - 3) If approved for monitoring as a consecutive system, or if providing water to a consecutive system, under the provisions of Section 611.500, the sampling plan must reflect the entire distribution system.

BOARD NOTE: Derived from 40 CFR 141.132 ~~(2006)~~ (2010).

(Source: Amended at 34 Ill. Reg. 19848, effective December 7, 2010)

SUBPART L: MICROBIOLOGICAL MONITORING
AND ANALYTICAL REQUIREMENTS

Section 611.526 Analytical Methodology

- a) The standard sample volume required for total coliform analysis, regardless of

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analytical method used, is 100 mL.

- b) Suppliers need only determine the presence or absence of total coliforms; a determination of total coliform density is not required.
- c) Suppliers must conduct total coliform analyses in accordance with one of the following analytical methods, incorporated by reference in Section 611.102, or in accordance with an alternative method approved by the Agency pursuant to Section 611.480 (the time from sample collection to initiation of analysis may not exceed 30 hours, and the supplier is encouraged but not required to hold samples below 10° C during transit):
 - 1) Total Coliform Fermentation Technique, as set forth in Standard Methods, 18th, 19th, 20th, or 21st ed., Methods 9221 A and B, as follows:
 - A) Lactose broth, as commercially available, may be used in lieu of lauryl tryptose broth if the supplier conducts at least 25 parallel tests between this medium and lauryl tryptose broth using the water normally tested and this comparison demonstrates that the false-positive rate and false-negative rate for total coliforms, using lactose broth, is less than 10 percent;
 - B) If inverted tubes are used to detect gas production, the media should cover these tubes at least one-half to two-thirds after the sample is added; and
 - C) No requirement exists to run the completed phase on 10 percent of all total coliform-positive confirmed tubes.
 - 2) Total Coliform Membrane Filter Technique, as set forth in Standard Methods, 18th, 19th, 20th, or 21st ed., Methods 9222 A, B, and C.
 - 3) Presence-Absence (P-A) Coliform Test, as set forth in: Standard Methods, 18th, 19th, 20th, or 21st ed., Method 9221 D, as follows:
 - A) No requirement exists to run the completed phase on 10 percent of all total coliform-positive confirmed tubes; and
 - B) Six-times formulation strength may be used if the medium is filter-

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sterilized rather than autoclaved.

- 4) ONPG-MUG test: Standard Methods, 18th, 19th, 20th, or 21st ed. Method 9223. (The ONPG-MUG test is also known as the Autoanalysis Colilert System.)
- 5) Colisure Test (Autoanalysis Colilert System). (The Colisure Test may be read after an incubation time of 24 hours.)

BOARD NOTE: USEPA included the P-A Coliform and Colisure Tests for testing finished water under the coliform rule, but did not include them for the purposes of the surface water treatment rule, under Section 611.531, for which quantitation of total coliforms is necessary. For these reasons, USEPA included Standard Methods Method 9221 C for the surface water treatment rule, but did not include it for the purposes of the total coliform rule, under this Section.

- 6) E*Colite® Test (Charm Sciences, Inc.).
- 7) m-ColiBlue24® Test (Hatch Company).
- 8) ~~Readycult® 2000~~ ~~Readycult Coliforms 100 Presence/Absence Test.~~
- 9) ~~Membrane Filter Technique using~~ Chromocult® ~~Method~~ Coliform Agar.
- 10) Colitag® Test.
- 11) Modified Colitag™ Method.

BOARD NOTE: ~~On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended note 1 to the table at corresponding 40 CFR 141.21(f)(3) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 9221 A, B, and D (as approved in 1999) or Method 9222 A, B, and C (as approved in 1997); and 9223 B (as approved in 1997). The Board has cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods) for Methods 9221 and 9223, since the cited versions of the methods appears in that reference. USEPA later added Method 9221 A, B, and D; Method 9222 A, B, and C; Method 9223 from the 21st edition of Standard Methods~~ USEPA added Standard Methods, 21st ed., Methods 9221 A, B, and D;

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9222 A, B, and C; and 9223 as an approved alternative method in appendix A to subpart C of 40 CFR 141, ~~added~~ on June 3, 2008 (at 73 Fed. Reg. 31616). USEPA added Modified Colitag™ Method as an approved alternative method in appendix A to subpart C of 40 CFR 141 on November 10, 2009 (at 74 Fed. Reg. 57908).

- d) This subsection corresponds with 40 CFR 141.21(f)(4), which USEPA has marked "reserved." This statement maintains structural consistency with the federal regulations.
- e) Suppliers must conduct fecal coliform analysis in accordance with the following procedure:
- 1) When the MTF Technique or P-A Coliform Test is used to test for total coliforms, shake the lactose-positive presumptive tube or P-A vigorously and transfer the growth with a sterile 3-mm loop or sterile applicator stick into brilliant green lactose bile broth and EC medium, defined below, to determine the presence of total and fecal coliforms, respectively.
 - 2) For approved methods that use a membrane filter, transfer the total coliform-positive culture by one of the following methods: remove the membrane containing the total coliform colonies from the substrate with sterile forceps and carefully curl and insert the membrane into a tube of EC medium; (the laboratory may first remove a small portion of selected colonies for verification); swab the entire membrane filter surface with a sterile cotton swab and transfer the inoculum to EC medium (do not leave the cotton swab in the EC medium); or inoculate individual total coliform-positive colonies into EC medium. Gently shake the inoculated tubes of EC medium to insure adequate mixing and incubate in a waterbath at 44.5 ±0.2° C for 24 ±2 hours. Gas production of any amount in the inner fermentation tube of the EC medium indicates a positive fecal coliform test.
 - 3) EC medium is described in Standard Methods, 18th ed., 19th ed., and 20th ed.: Method 9221E.
 - 4) Suppliers need only determine the presence or absence of fecal coliforms; a determination of fecal coliform density is not required.

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- f) Suppliers must conduct analysis of *E. coli* in accordance with one of the following analytical methods, incorporated by reference in Section 611.102:
- 1) EC medium supplemented with 50 µg/ℓ of MUG (final concentration). EC medium is as described in subsection (e) of this Section. MUG may be added to EC medium before autoclaving. EC medium supplemented with 50 µg/ℓ MUG is commercially available. At least 10 ml of EC medium supplemented with MUG must be used. The inner inverted fermentation tube may be omitted. The procedure for transferring a total coliform-positive culture to EC medium supplemented with MUG is as in subsection (e) of this Section for transferring a total coliform-positive culture to EC medium. Observe fluorescence with an ultraviolet light (366 nm) in the dark after incubating tube at $44.5 \pm 2^\circ$ C for 24 ± 2 hours; or
 - 2) Nutrient agar supplemented with 100 µg/ℓ MUG (final concentration), as described in Standard Methods, 19th ed. and 20th ed., Method 9222 G. This test is used to determine if a total coliform-positive sample, as determined by the MF technique, contains *E. coli*. Alternatively, Standard Methods, 18th ed., Method 9221 B may be used if the membrane filter containing a total coliform-positive colony or colonies is transferred to nutrient agar, as described in Method 9221 B (paragraph 3), supplemented with 100 µg/ℓ MUG. If Method 9221 B is used, incubate the agar plate at 35° Celsius for four hours, then observe the colony or colonies under ultraviolet light (366-nm) in the dark for fluorescence. If fluorescence is visible, *E. coli* are present.
 - 3) Minimal Medium ONPG-MUG (MMO-MUG) Test, as set forth in Appendix D of this Part. (The Autoanalysis Colilert System is a MMO-MUG test.) If the MMO-MUG test is total coliform positive after a 24-hour incubation, test the medium for fluorescence with a 366-nm ultraviolet light (preferably with a six-watt lamp) in the dark. If fluorescence is observed, the sample is *E. coli*-positive. If fluorescence is questionable (cannot be definitively read) after 24 hours incubation, incubate the culture for an additional four hours (but not to exceed 28 hours total), and again test the medium for fluorescence. The MMO-MUG test with hepes buffer is the only approved formulation for the detection of *E. coli*.
 - 4) The Colisure Test (Autoanalysis Colilert System).

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- 5) The membrane filter method with MI agar.
- 6) The E*Colite® Test.
- 7) The m-ColiBlue24® Test.
- 8) ~~ReadyCult® 2000 ReadyCult Coliforms 100 Presence/Absence Test.~~
- 9) ~~Membrane Filter Technique using Chromocult® Method Coliform Agar.~~
- 10) Colitag® Test.
- 11) ONPG-MUG Test: Standard Methods, 20th or 21st ed., Method 9223 B.
- 12) Modified Colitag™ Method.

BOARD NOTE: USEPA added Standard Methods, 20th or 21st ed., Method 9223 B and Standard Methods Online, Method 9223 B-97 as approved alternative methods for E. coli in appendix A to subpart C of 40 CFR 141 on November 10, 2009 (at 74 Fed. Reg. 57908).

- g) As an option to the method set forth in subsection (f)(3) of this Section, a supplier with a total coliform-positive, MUG-negative, MMO-MUG test may further analyze the culture for the presence of E. coli by transferring a 0.1 ml, 28-hour MMO-MUG culture to EC medium + MUG with a pipet. The formulation and incubation conditions of the EC medium + MUG, and observation of the results, are described in subsection (f)(1) of this Section.
- h) This subsection corresponds with 40 CFR 141.21(f)(8), a central listing of all documents incorporated by reference into the federal microbiological analytical methods. The corresponding Illinois incorporations by reference are located at Section 611.102. This statement maintains structural parity with USEPA regulations.

BOARD NOTE: Derived from 40 CFR 141.21(f)-(2007) and appendix A to 40 CFR 141 (2009), as added at 73 Fed. Reg. 31616 (June 3, 2008).

(Source: Amended at 34 Ill. Reg. 19848, effective December 7, 2010)

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Section 611.531 Analytical Requirements

The analytical methods specified in this Section, or alternative methods approved by the Agency pursuant to Section 611.480, must be used to demonstrate compliance with the requirements of only 611.Subpart B; they do not apply to analyses performed for the purposes of Sections 611.521 through 611.527 of this Subpart L. Measurements for pH, temperature, turbidity, and RDCs must be conducted under the supervision of a certified operator. Measurements for total coliforms, fecal coliforms and HPC must be conducted by a laboratory certified by the Agency to do such analysis. The following procedures must be performed by the following methods, incorporated by reference in Section 611.102:

a) A supplier ~~must conduct analyses~~ ~~shall do~~ as follows:

- 1) ~~The supplier must conduct~~ ~~Conduct~~ analyses ~~foref~~ pH in accordance with one of the methods listed at Section 611.611; and
- 2) ~~The supplier must conduct~~ ~~Conduct~~ analyses ~~foref~~ total coliforms, fecal coliforms, heterotrophic bacteria, and turbidity in accordance with one of the following methods, and by using analytical test procedures contained in USEPA Technical Notes, incorporated by reference in Section 611.102, as follows:

A) Total Coliforms.

BOARD NOTE: The time from sample collection to initiation of analysis for source (raw) water samples required by Sections 611.521 and 611.532 and Subpart B of this Part only must not exceed eight hours. The supplier is encouraged but not required to hold samples below 10° C during transit.

- i) Total coliform fermentation technique: Standard Methods, 18th, 19th, 20th, or 21st ed.; Method 9221 A, B, and C.

BOARD NOTE: Lactose broth, as commercially available, may be used in lieu of lauryl tryptose broth if the supplier conducts at least 25 parallel tests between this medium and lauryl tryptose broth using the water normally tested and this comparison demonstrates that the false-positive rate

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and false-negative rate for total coliforms, using lactose broth, is less than 10 percent. If inverted tubes are used to detect gas production, the media should cover these tubes at least one-half to two-thirds after the sample is added. No requirement exists to run the completed phase on 10 percent of all total coliform-positive confirmed tubes.

- ii) Total coliform membrane filter technique: Standard Methods, 18th, 19th, 20th, or 21st ed.; Method 9222 A, B, and C.
- iii) ONPG-MUG test (also known as the Autoanalysis Colilert System): Standard Methods, 18th, 19th, 20th, or 21st ed.; Method 9223.

BOARD NOTE: USEPA included the P-A Coliform and Colisure Tests for testing finished water under the coliform rule, under Section 611.526, but did not include them for the purposes of the surface water treatment rule, under this Section, for which quantitation of total coliforms is necessary. For these reasons, USEPA included Standard Methods; Method 9221 C for the surface water treatment rule, but did not include it for the purposes of the total coliform rule, under Section 611.526.

[BOARD NOTE: USEPA added Standard Methods, 21st ed., Methods 9221 A, B, and C; 9222 A, B, and C; and 9223 as approved alternative methods for total coliform in appendix A to subpart C of 40 CFR 141 on June 3, 2008 \(at 73 Fed. Reg. 31616\).](#)

B) Fecal Coliforms.

BOARD NOTE: The time from sample collection to initiation of analysis for source (raw) water samples required by Sections 611.521 and 611.532 and Subpart B of this Part only must not exceed eight hours. The supplier is encouraged but not required to hold samples below 10° C during transit.

- i) Fecal coliform procedure: Standard Methods, 18th, 19th,

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20th, or 21st ed.; Method 9221 E.

BOARD NOTE: A-1 broth may be held up to seven days in a tightly closed screwcap tube at 4° C (39° F).

- ii) Fecal Coliform Membrane Filter Procedure: Standard Methods, 18th, 19th, 20th, or 21st ed.; Method 9222 D.

BOARD NOTE: USEPA added Standard Methods, 21st ed., Methods 9221 E and 9222 D as approved alternative methods for fecal coliforms in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616).

C) Heterotrophic bacteria.

- i) Pour plate method: Standard Methods, 18th, 19th, 20th, or 21st ed.; Method 9215 B.

BOARD NOTE: The time from sample collection to initiation of analysis must not exceed eight hours. The supplier is encouraged but not required to hold samples below 10° C during transit.

- ii) SimPlate method.

BOARD NOTE: USEPA added Standard Methods, 21st ed., Method 9215 B as an approved alternative method for heterotrophic bacteria in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616).

D) Turbidity.

BOARD NOTE: Styrene divinyl benzene beads (e.g., AMCO-AEPA-1 or equivalent) and stabilized formazin (e.g., Hach StablCal™ or equivalent) are acceptable substitutes for formazin.

- i) Nephelometric method: Standard Methods, 18th, 19th, 20th, or 21st ed.; Method 2130 B.

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- ii) Nephelometric method: USEPA Environmental Inorganic Methods, Method 180.1 ([rev.2.0](#)).
- iii) GLI Method 2.
- iv) Hach FilterTrak Method 10133.
- v) [Laser nephelometry \(on-line\): Mitchell Method M5271.](#)
- vi) [LED nephelometry \(on-line\): Mitchell Method M5331 or AMI Turbiwell Method.](#)
- vii) [LED nephelometry \(portable\): Orion Method AQ4500.](#)

[BOARD NOTE: USEPA added Standard Methods, 21st ed., Method 9130 B as an approved alternative method for turbidity in appendix A to subpart C of 40 CFR 141 on June 3, 2008 \(at 73 Fed. Reg. 31616\). USEPA added Mitchell Method M5271 and Orion Method AQ4500 as approved alternative methods for turbidity in appendix A to subpart C of 40 CFR 141 on August 3, 2009 \(at 74 Fed. Reg. 38348\). USEPA added AMI Turbiwell Method as an approved alternative method for turbidity in appendix A to subpart C of 40 CFR 141 on November 10, 2009 \(at 74 Fed. Reg. 57908\).](#)

- E) Temperature: Standard Methods, 18th, 19th, 20th, or 21st ed., Method 2550.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entries for total coliforms, fecal coliforms, heterotrophic bacteria, turbidity, and temperature at corresponding 40 CFR 141.74(a)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 2130 B (as approved in 2001); Method 9215 B (as approved in 2000); Method 9221 A, B, and C (as approved in 1999); Method 9222 A, B, C, and D (as approved in 1997); and Method 9223 B (as approved in 1997). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the versions of Method 2130, Method 9215, Method 9221, Method 9222, and Method 9223 that appear in that printed volume are those cited by USEPA as acceptable for use. USEPA later~~

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~~added Method 2130 B; Method 9215 B; Method 9221 A, B, C, and E; Method 9222 A, B, C, and D; and Method 9223 from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- b) A supplier must measure residual disinfectant concentrations with one of the following analytical methods:
- 1) Free chlorine.
 - A) Amperometric Titration.
 - i) Standard Methods, 18th, 19th, 20th, or 21st ed.; Method 4500-Cl D.
 - ii) ASTM Method ~~D1253-03~~ or ~~D1253-08~~~~D-1253-03~~.
 - B) DPD Ferrous Titrimetric: Standard Methods, 18th, 19th, 20th, or 21st ed.; Method 4500-Cl F.
 - C) DPD Colimetric: Standard Methods, 18th, 19th, 20th, or 21st ed.; Method 4500-Cl G.
 - D) Syringaldazine (FACTS): Standard Methods, 18th, 19th, 20th, or 21st ed.; Method 4500-Cl H.
 - E) On-line chlorine analyzer: USEPA OGWDW Methods, Method 334.0.
 - F) Amperometric sensor: Palintest ChloroSense.

BOARD NOTE: USEPA added Standard Methods, 21st ed., Methods 4500-Cl D, F, G, and H; Method 4500-ClO₂ C and E as approved alternative methods for free chlorine in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616). USEPA added ASTM Method D1253-08, USEPA OGWDW Methods, Method 334.0, and Palintest ChloroSense as approved alternative methods for free chlorine in appendix A to subpart C of 40 CFR 141 on November 10, 2009 (at 74 Fed. Reg. 57908).

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2) Total chlorine.

A) Amperometric Titration:-

i) Standard Methods, 18th, 19th, 20th, or 21st ed., Method 4500-CI D.

ii) ASTM Method ~~D1253-03 or D1253-08~~D-1253-03.

B) Amperometric Titration (low level measurement): Standard Methods, 18th, 19th, 20th, or 21st ed., Method 4500-CI E.C) DPD Ferrous Titrimetric: Standard Methods, 18th, 19th, 20th, or 21st ed., Method 4500-CI F.D) DPD Colimetric: Standard Methods, 18th, 19th, 20th, or 21st ed., Method 4500-CI G.E) Iodometric Electrode: Standard Methods, 18th, 19th, 20th, or 21st ed., Method 4500-CI I.

F) On-line chlorine analyzer: USEPA OGWDW Methods, Method 334.0.

G) Amperometric sensor: Palintest ChloroSense.

BOARD NOTE: USEPA added Standard Methods, 21st ed., Methods 4500-CI D, E, F, G, and I as approved alternative methods for total chlorine in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616). USEPA added ASTM Method D1253-08, USEPA OGWDW Methods, Method 334.0, and Palintest ChloroSense as approved alternative methods for total chlorine in appendix A to subpart C of 40 CFR 141 on November 10, 2009 (at 74 Fed. Reg. 57908).

3) Chlorine dioxide.

A) Amperometric Titration: Standard Methods, 18th, 19th, 20th, or 21st ed., Method 4500-CIO₂ C or E.

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- B) DPD Method: Standard Methods, 18th, 19th or 20th ed. Method 4500-ClO₂ D.
- C) Spectrophotometric: USEPA OGWDW Methods, Method 327.0 (rev. 1.1).
- 4) Ozone: Indigo Method: Standard Methods, 18th, 19th, 20th, or 21st ed. Method 4500-O₃ B.
- 5) Alternative test methods: The Agency may grant a SEP pursuant to Section 611.110 that allows a supplier to use alternative chlorine test methods as follows:
- A) DPD colorimetric test kits: Residual disinfectant concentrations for free chlorine and combined chlorine may also be measured by using DPD colorimetric test kits.
- B) Continuous monitoring for free and total chlorine: Free and total chlorine residuals may be measured continuously by adapting a specified chlorine residual method for use with a continuous monitoring instrument, provided the chemistry, accuracy, and precision remain the same. Instruments used for continuous monitoring must be calibrated with a grab sample measurement at least every five days or as otherwise provided by the Agency.

BOARD NOTE: Suppliers may use a five-tube test or a 10-tube test.

BOARD NOTE: USEPA added Standard Methods, 21st ed., Method 4500-ClO₂ C, D, and E and Method 4500-O₃ B as approved alternative methods for chlorine dioxide in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616).

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entries for free chlorine, total chlorine, chlorine dioxide, and ozone at corresponding 40 CFR 141.74(a)(2) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 4500-Cl D, E, F, G, and H (as approved in 2000); Method 4500-ClO₂ C and E (as approved in 2000); and Method 4500-~~

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~~O₃-B (as approved in 1997). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the versions of Method 4500-Cl, Method 4500-ClO₂, and Method 4500-O₃ that appear in that printed volume are those cited by USEPA as acceptable for use. USEPA later added Method 4500-Cl-D, E, F, G, and H; Method 4500-ClO₂-C and E; and Method 4500-O₃-B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

BOARD NOTE: Derived from 40 CFR 141.74(a) ~~(2007)~~ and appendix A to 40 CFR 141 ~~(2009)~~, as added at 73 Fed. Reg. 31616 (June 3, 2008).

(Source: Amended at 34 Ill. Reg. 19848, effective December 7, 2010)

SUBPART N: INORGANIC MONITORING AND ANALYTICAL REQUIREMENTS

Section 611.611 Inorganic Analysis

Analytical methods are from documents incorporated by reference in Section 611.102. These are mostly referenced by a short name defined by Section 611.102(a). Other abbreviations are defined in Section 611.101.

- a) Analysis for the following contaminants must be conducted using the following methods or an alternative method approved pursuant to Section 611.480. Criteria for analyzing arsenic, chromium, copper, lead, nickel, selenium, sodium, and thallium with digestion or directly without digestion, and other analytical procedures, are contained in USEPA Technical Notes, incorporated by reference in Section 611.102.

BOARD NOTE: Because MDLs reported in USEPA Environmental Metals Methods 200.7 and 200.9 were determined using a 2× preconcentration step during sample digestion, MDLs determined when samples are analyzed by direct analysis (i.e., no sample digestion) will be higher. For direct analysis of cadmium ~~and arsenic~~ by USEPA Environmental Metals Method 200.7, ~~and arsenic by Standard Methods, 18th, 19th, 20th, or 21st ed., Method 3120-B~~ sample preconcentration using pneumatic nebulization may be required to achieve lower detection limits. Preconcentration may also be required for direct analysis of antimony, lead, and thallium by USEPA Environmental Metals Method 200.9; antimony and lead by Standard Methods, 18th, 19th, or 21st ed., Method 3113 B;

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and lead by ASTM Method D3559-96 D or D3559-03 D unless multiple in-furnace depositions are made.

- 1) Alkalinity.
 - A) Titrimetric.
 - i) ASTM Method D1067-92 B or D1067-02 B; or
 - ii) Standard Methods, 18th, 19th, 20th, or 21st ed.; Method 2320 B.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for alkalinity by titrimetric alkalinity in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 2320 B (as approved in 1997). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 2320 that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 2320 B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- B) Electrometric titration: USGS Methods: Method I-1030-85.

BOARD NOTE: USEPA added Standard Methods, 21st ed., Method 2320 B as an approved alternative method for alkalinity in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616).

- 2) Antimony.
 - A) Inductively coupled plasma-mass spectrometry: USEPA Environmental Metals Methods; Method 200.8 (rev. 5.3).

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- B) Atomic absorption, hydride technique: ASTM Method D3697-92, ~~or D3697-02, or D3697-07.~~
- C) Atomic absorption, platform furnace technique: USEPA Environmental Metals Methods, ~~Method 200.9~~ Method 200.9 (rev.2.2).
- D) Atomic absorption, furnace technique: Standard Methods, 18th, 19th, or 21st ed., ~~Method 3113 B.~~

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for antimony by atomic absorption, furnace technique, in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 3113 B (as approved in 1999). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 3113 that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 3113 B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- E) Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES): USEPA ~~NERL Methods:~~ Method 200.5.

~~BOARD NOTE: USEPA added this method as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- 3) Arsenic.

BOARD NOTE: If ultrasonic nebulization is used in the determination of arsenic by ~~Method Methods 200.7, 200.8, or Standard Methods, 18th, 19th, 20th, or 21st ed., 3120 B,~~ the arsenic must be in the pentavalent state to provide uniform signal response. ~~For methods 200.7 and 3120 B, both samples and standards must be diluted in the same mixed acid matrix concentration of nitric and hydrochloric acid with the addition of 100 µl~~

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~~of 30% hydrogen peroxide per 100 ml of solution.~~ For direct analysis of arsenic with ~~Method~~method 200.8 using ultrasonic nebulization, samples and standards must contain one mg/l of sodium hypochlorite.

~~A) Inductively coupled plasma.~~

~~BOARD NOTE: Effective January 23, 2006, a supplier may no longer employ analytical methods using the ICP-AES technology because the detection limits for these methods are 0.008 mg/l or higher. This restriction means that the two ICP-AES methods (USEPA Environmental Metals Method 200.7 and Standard Methods, Method 3120 B) approved for use for the MCL of 0.05 mg/l may not be used for compliance determinations for the revised MCL of 0.010 mg/l. However, prior to the 2005 through 2007 compliance period, a supplier may have compliance samples analyzed with these less sensitive methods.~~

- ~~i) USEPA Environmental Metals Methods: Method 200.7; or~~
- ~~ii) Standard Methods, 18th, 19th, 20th, or 21st ed.: Method 3120 B.~~

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for arsenic by inductively coupled plasma in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 3120 B (as approved in 1999). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 3120 that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 3120 B from the 21st edition of Standard Methods as an approved alternative method for several other metals in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616). USEPA, however, did not specifically add Method 2130 B as to arsenic in the June 3, 2008 action.~~

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~~A)B)~~ Inductively coupled plasma-mass spectrometry: USEPA Environmental Metals Methods, Method 200.8 (rev. 5.3).

~~B)C)~~ Atomic absorption, platform furnace technique: USEPA Environmental Metals Methods, Method 200.9 (rev. 2.2).

~~C)D)~~ Atomic absorption, furnace technique.

i) ASTM Method D2972-97 C, D2972-03 C, or D2972-08 C ~~or 2972-03 C~~; or

ii) Standard Methods, 18th, 19th, or 21st ed., Method 3113 B.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for arsenic by atomic absorption, furnace technique, in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 3113 B (as approved in 1999). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 3113 that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 3113 B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

~~D)E)~~ Atomic absorption, hydride technique.

i) ASTM Method D2972-97 B, D2972-03 C, or D2972-08 B ~~or 2972-03 B~~; or

ii) Standard Methods, 18th, 19th, or 21st ed., Method 3114 B.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for antimony by atomic absorption, hydride technique, in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods~~

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~~Online (at www.standardmethods.org), Method 3114 B (as approved in 1997). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 3114 that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 3114 B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- ~~E)F)~~ Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES): USEPA ~~NERL Methods-~~ Method 200.5.

~~BOARD NOTE: USEPA added Standard Methods, 21st ed., Method 3113 B and USEPA NERL Method 200.5 as approved alternative methods for arsenic in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616). USEPA added ASTM Methods D2972-08 B and C as approved alternative methods for arsenic in appendix A to subpart C of 40 CFR 141 on November 10, 2009 (at 74 Fed. Reg. 57908).~~

~~BOARD NOTE: USEPA added this method as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- 4) Asbestos: Transmission electron microscopy: USEPA Asbestos ~~MethodMethods-~~100.1 ~~or~~ USEPA Asbestos ~~MethodMethods-~~100.2.
- 5) Barium.
- A) Inductively coupled plasma.
- i) USEPA Environmental Metals Methods~~;~~ Method 200.7 (~~rev. 4.4~~); or
- ii) Standard Methods, 18th, 19th, 20th, or 21st ed.~~;~~ Method 3120 B.

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~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for barium by inductively coupled plasma in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 3120 B (as approved in 1999). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 3120 that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 3120 B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- B) Inductively coupled plasma-mass spectrometry: USEPA Environmental Metals Methods, Method 200.8 ([rev. 5.3](#)).
- C) Atomic absorption, direct aspiration technique: Standard Methods, 18th, 19th, or 21st ed., Method 3111 D.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for barium by atomic absorption, direct aspiration technique, in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 3111 D (as approved in 1999). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 3111 that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 3111 D from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- D) Atomic absorption, furnace technique: Standard Methods, 18th, 19th, or 21st ed., Method 3113 B.

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~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for barium by atomic absorption, furnace technique, in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 3113 B (as approved in 1999). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 3113 that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 3113 B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- E) Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES): USEPA NERL Methods: Method 200.5.

BOARD NOTE: USEPA added Standard Methods, 21st ed., Methods 3111 D, 3113 B, and 3120 B and USEPA NERL Method 200.5 as approved alternative methods for barium in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616).

~~BOARD NOTE: USEPA added this method as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

6) Beryllium.

A) Inductively coupled plasma.

- i) USEPA Environmental Metals Methods, Method 200.7 (rev. 4.4); or
- ii) Standard Methods, 18th, 19th, 20th, or 21st ed., Method 3120 B.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for beryllium by~~

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~~inductively coupled plasma in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 3120 B (as approved in 1999). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 3120 that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 3120 B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- B) Inductively coupled plasma-mass spectrometry: USEPA Environmental Metals Methods, Method 200.8 (rev. 5.3).
- C) Atomic absorption, platform furnace technique: USEPA Environmental Metals Methods, Method 200.9 (rev. 2.2).
- D) Atomic absorption, furnace technique.
- i) ASTM Method D3645-97 B or D3645-03 B; or
- ii) Standard Methods, 18th, 19th, or 21st ed., Method 3113 B.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for beryllium by atomic absorption, furnace technique, in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 3113 B (as approved in 1999). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 3113 that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 3113 B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

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- E) Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES): USEPA ~~NERL Methods:~~ Method 200.5.

~~BOARD NOTE: USEPA added Standard Methods, 21st ed., Methods 3113 B and 3120 B and USEPA NERL Method 200.5 as approved alternative methods for beryllium in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616). USEPA added ASTM Method D3645-08 B as an approved alternative method for beryllium in appendix A to subpart C of 40 CFR 141 on November 10, 2009 (at 74 Fed. Reg. 57908).~~

~~BOARD NOTE: USEPA added this method as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- 7) Cadmium.
- A) Inductively coupled plasma arc furnace: USEPA Environmental Metals Methods, Method 200.7 ~~(rev. 4.4)~~.
- B) Inductively coupled plasma-mass spectrometry: USEPA Environmental Metals Methods, Method 200.8 ~~(rev. 5.3)~~.
- C) Atomic absorption, platform furnace technique: USEPA Environmental Metals Methods, Method 200.9 ~~(rev. 2.2)~~.
- D) Atomic absorption, furnace technique: Standard Methods, 18th, 19th, or 21st ed., Method 3113 B.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for cadmium by atomic absorption, furnace technique, in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 3113 B (as approved in 1999). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method~~

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~~3113 that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 3113-B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- E) Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES): USEPA ~~NERL Methods:~~ Method 200.5.

BOARD NOTE: USEPA added Standard Methods, 21st ed., Method 3113 B and USEPA NERL Method 200.5 as approved alternative methods for cadmium in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616).

~~BOARD NOTE: USEPA added this method as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- 8) Calcium.

- A) EDTA titrimetric.

- i) ASTM Method D511-93 A₂ ~~or D511-03 A₂~~ or D511-09 A₂;
or
- ii) Standard Methods, 18th or 19th ed.₂; Method 3500-Ca D or Standard Methods, 20th or 21st ed.₂; Method 3500-Ca B.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for calcium by EDTA titrimetric in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 3500-Ca D (as approved in 1997). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 3500-Ca that appears in that printed volume is that cited by USEPA as acceptable for~~

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~~use. USEPA later added Method 3500-Ca B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- B) Atomic absorption, direct aspiration.
- i) ASTM Method D511-93 B, ~~or~~ D511-03 B, or D511-09 B; or
 - ii) Standard Methods, 18th, 19th, or 21st ed.; Method 3111 B.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for calcium by atomic absorption, direct aspiration, in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 3111 B (as approved in 1999). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 3111 that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 3111 B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- C) Inductively coupled plasma.
- i) USEPA Environmental Metals Methods; Method 200.7 (rev. 4.4); or
 - ii) Standard Methods, 18th, 19th, 20th, or 21st ed.; Method 3120 B.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for calcium by inductively coupled plasma in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods~~

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~~Online (at www.standardmethods.org), Method 3120 B (as approved in 1999). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 3120 that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 3120 B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- D) Ion chromatography: ASTM Method D6919-03.
- E) Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES): USEPA ~~NERL Methods:~~ Method 200.5.

BOARD NOTE: USEPA added Standard Methods, 21st ed., Methods 3111 B, 3120 B, and 3500-Ca B and USEPA NERL Method 200.5 as approved alternative methods for calcium in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616). USEPA added ASTM Methods D511-09 A and B as approved alternative methods for calcium in appendix A to subpart C of 40 CFR 141 on November 10, 2009 (at 74 Fed. Reg. 57908).

~~BOARD NOTE: USEPA added this method as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- 9) Chromium.
- A) Inductively coupled plasma.
- i) USEPA Environmental Metals Methods ~~2:~~ Method 200.7 (rev. 4.4); or
- ii) Standard Methods, 18th, 19th, 20th, or 21st ed. ~~:~~ Method 3120 B.

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~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for chromium by inductively coupled plasma in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 3120 B (as approved in 1999). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 3120 that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 3120 B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- B) Inductively coupled plasma-mass spectrometry: USEPA Environmental Metals Methods, Method 200.8 ([rev. 5.3](#)).
- C) Atomic absorption, platform furnace technique: USEPA Environmental Metals Methods, Method 200.9 ([rev. 2.2](#)).
- D) Atomic absorption, furnace technique: Standard Methods, 18th, 19th, or 21st ed., Method 3113 B.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for chromium by atomic absorption, furnace technique, in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 3113 B (as approved in 1999). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 3113 that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 3113 B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

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- E) Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES): USEPA ~~NERL Methods-~~ Method 200.5.

BOARD NOTE: USEPA added Standard Methods, 21st ed., Methods 3113 B and 3120 B and USEPA NERL Method 200.5 as approved alternative methods for chromium in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616).

~~BOARD NOTE: USEPA added this method as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

10) Copper.

- A) Atomic absorption, furnace technique.

- i) ~~ASTM Method D1688-95 C, or D1688-02 C, or D1688-07 C;~~ or
ii) Standard Methods, 18th, 19th, or 21st ed.; Method 3113 B.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for copper by atomic absorption, furnace technique, in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 3113 B (as approved in 1999). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 3113 that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 3113 B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- B) Atomic absorption, direct aspiration.

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- i) ASTM Method D1688-95 A, ~~or D1688-02 A, or D1688-07 A~~; or
- ii) Standard Methods, 18th, 19th, or 21st ed.; Method 3111 B.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for copper by atomic absorption, direct aspiration, in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 3111 B (as approved in 1999). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 3111 that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 3111 B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

C) Inductively coupled plasma.

- i) USEPA Environmental Metals Methods; Method 200.7 (rev. 4.4); or
- ii) Standard Methods, 18th, 19th, 20th, or 21st ed.; Method 3120 B.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for copper by inductively coupled plasma in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 3120 B (as approved in 1999). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 3120 that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 3120 B from the 21st~~

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~~edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- D) Inductively coupled plasma-mass spectrometry: USEPA Environmental Metals Methods, Method 200.8 (rev. 5.3).
- E) Atomic absorption, platform furnace technique: USEPA Environmental Metals Methods, Method 200.9 (rev. 2.2).
- F) Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES): USEPA ~~NERL Methods~~ Method 200.5.

BOARD NOTE: USEPA added Standard Methods, 21st ed., Methods 3111 B, 3113 B, and 3120 B and USEPA NERL Method 200.5 as an approved alternative method for copper in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616). USEPA added ASTM Methods D1688-07 A and C as approved alternative methods for copper in appendix A to subpart C of 40 CFR 141 on November 10, 2009 (at 74 Fed. Reg. 57908).

~~BOARD NOTE: USEPA added this method as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- 11) Conductivity; Conductance.
 - A) ASTM Method D1125-95(1999) A; or
 - B) Standard Methods, 18th, 19th, 20th, or 21st ed., Method 2510 B.

BOARD NOTE: USEPA added Standard Methods, 21st ed., Method 2510 B as an approved alternative method for conductivity in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616).

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for conductivity by conductance in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of~~

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~~Standard Methods Online (at www.standardmethods.org), Method 2510-B (as approved in 1997). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 2510 that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 2510-B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

12) Cyanide.

A) Manual distillation (ASTM Method D2036-98 A or Standard Methods, 18th, 19th, or 20th ed.; Method 4500-CN⁻ C), followed by spectrophotometric, amenable.

i) ASTM Method D2036-98 B or 2036-06 B; or

~~BOARD NOTE: USEPA added ASTM Method 2036-06 A as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

ii) Standard Methods, 18th, 19th, 20th, or 21st ed.; Method 4500-CN⁻ G.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for cyanide by spectrophotometric, amenable, in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 4500-CN⁻ G (as approved in 1999). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 4500-CN⁻ that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 4500-CN⁻ G from the 21st edition of Standard Methods as an approved~~

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~~alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- B) Manual distillation (ASTM Method D2036-98 A or Standard Methods, 18th, 19th, or 20th ed.; Method 4500-CN C), followed by spectrophotometric, manual.
- i) ASTM Method D2036-98 A or ~~D2036-06 A~~~~2036-06 A~~;
- ii) Standard Methods, 18th, 19th, 20th, or 21st ed.; Method 4500-CN E; or

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for cyanide by spectrophotometric, manual, in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 4500-CN E (as approved in 1999). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 4500-CN that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 4500-CN E from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- iii) USGS Methods; Method I-3300-85.

- C) Spectrophotometric, semiautomated: USEPA Environmental Inorganic Methods; Method 335.4 (rev. 1.0).

- D) Selective electrode: Standard Methods, 18th, 19th, 20th, or 21st ed.; Method 4500-CN F.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for cyanide by selective electrode in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method~~

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~~4500-CN-F (as approved in 1999). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 4500-CN that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 4500-CN-F from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- E) UV/Distillation/Spectrophotometric: Kelada 01.
- F) Microdistillation/Flow Injection/Spectrophotometric: QuickChem 10-204-00-1-X.
- G) Ligand exchange and amperometry.
 - i) ASTM Method D6888-03.
 - ii) OI Analytical Method OIA-1677 DW.

H) Gas chromatography-mass spectrometry headspace: Method ME355.01.

BOARD NOTE: USEPA added ASTM Method D2036-06 A and Standard Methods, 21st ed., Methods 4500-CNE, F, and G as approved alternative methods for cyanide in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616). USEPA added Method ME355.01 as an approved alternative method for cyanide in appendix A to subpart C of 40 CFR 141 on August 3, 2009 (at 74 Fed. Reg. 38348).

- 13) Fluoride.
 - A) Ion Chromatography.
 - i) USEPA Environmental Inorganic Methods, Method 300.0 (rev. 2.1) or USEPA Organic and Inorganic Methods, Method 300.1 (rev. 1.0);

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- ii) ASTM Method D4327-97 or D4327-03; or
- iii) Standard Methods, 18th, 19th, 20th, or 21st ed., Method 4110 B.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for fluoride by ion chromatography in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 4110 B (as approved in 2000). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 4110 that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 4110 B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- B) Manual distillation, colorimetric SPADNS: Standard Methods, 18th, 19th, 20th, or 21st ed., Method 4500-F⁻ B and D.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for fluoride by manual distillation, colorimetry SPADNS, in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 4500-F⁻ B and D (as approved in 1997). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 4500-F⁻ that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 4500-F⁻ B and D from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- C) Manual electrode.

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- i) ASTM Method D1179-93 B, D1179-99 B, or D1179-04 B;
or

~~BOARD NOTE: USEPA added ASTM Method D1179-04 B as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- ii) Standard Methods, 18th, 19th, 20th, or 21st ed.; Method 4500-F⁻ C.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for fluoride by manual electrode in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 4500-F⁻ C (as approved in 1997). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 4500-F⁻ that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 4500-F⁻ C from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- D) Automated electrode: Technicon Methods; Method 380-75WE.

- E) Automated alizarin.

- i) Standard Methods, 18th, 19th, 20th, or 21st ed.; Method 4500-F⁻ E; or

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for fluoride by automated alizarin in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 4500-F⁻ E (as~~

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~~approved in 1997). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 4500-F that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 4500-F-E from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

ii) Technicon Methods, Method 129-71W.

F) Capillary ion electrophoresis: ASTM Method D6508-00(2005).

BOARD NOTE: USEPA added Standard Methods, 21st ed., Methods 4110 B and 4500 B, C, D, and E and ASTM Method D1179-04 B as approved alternative methods for fluoride in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616).

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for fluoride to add capillary ion electrophoresis in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of "Waters Method D6508, Rev. 2." The Board attempt to locate a copy of the method disclosed that it is an ASTM method originally approved in 2000 and reapproved in 2005. The Board has cited to the ASTM Method D6508-00(2005).~~

14) Lead.

A) Atomic absorption, furnace technique.

i) ASTM Method D3559-96 D, ~~or~~ D3559-03 D, or D3559-08;
or

ii) Standard Methods, 18th, 19th, or 21st ed., Method 3113 B.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for lead by atomic absorption, furnace technique, in the table at corresponding~~

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~~40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 3113-B (as approved in 1999). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 3113 that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 3113-B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- B) Inductively coupled plasma-mass spectrometry: USEPA Environmental Metals Methods, ~~Method 200.8~~ Method 200.8 (rev. 5.3).
- C) Atomic absorption, platform furnace technique: USEPA Environmental Metals Methods, ~~Method 200.9~~ Method 200.9 (rev. 2.2).
- D) Differential Pulse Anodic Stripping Voltammetry: Palintest Method 1001.
- E) Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES): USEPA ~~NERL Methods~~ Method 200.5.

BOARD NOTE: USEPA added Standard Methods, 21st ed., Method 3113 B and USEPA NERL Method 200.5 as approved alternative methods for lead in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616). USEPA added ASTM Method D3559-08 D as an approved alternative method for lead in appendix A to subpart C of 40 CFR 141 on November 10, 2009 (at 74 Fed. Reg. 57908).

~~BOARD NOTE: USEPA added this method as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- 15) Magnesium.
 - A) Atomic absorption.

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- i) ASTM Method D511-93 B, ~~or D511-03 B~~, or D511-09 B;
or
- ii) Standard Methods, 18th, 19th, or 21st ed., ~~or~~ Method 3111 B.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for magnesium by atomic absorption in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 3111 B (as approved in 1999). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 3111 that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 3111 B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

B) Inductively coupled plasma.

- i) USEPA Environmental Metals Methods, ~~or~~ Method 200.7 (rev. 4.4); or
- ii) Standard Methods, 18th, 19th, 20th, or 21st ed., ~~or~~ Method 3120 B.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for magnesium by inductively coupled plasma in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 3120 B (as approved in 1999). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 3120 that appears in that printed volume is that cited by USEPA as acceptable for~~

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~~use. USEPA later added Method 3120 B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- C) Complexation titrimetric.
- i) ASTM Method D511-93 A, ~~or~~ D511-03 A, or D511-09 A; or
 - ii) Standard Methods, 18th or 19th ed., ~~or~~ Method 3500-Mg E or Standard Methods, 20th or 21st ed., ~~or~~ Method 3500-Mg B.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for magnesium by complexation titrimetric in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 3500-Mg B (as approved in 1997). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 3500-Mg that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 3500-Mg B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- D) Ion chromatography: ASTM Method D6919-03.
- E) Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES): USEPA ~~NERL Methods:~~ Method 200.5.

BOARD NOTE: USEPA added Standard Methods, 21st ed., Methods 3111 B, 3120 B, and 3500-Mg B and USEPA NERL Method 200.5 as approved alternative methods for magnesium in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616). USEPA added ASTM Methods D511-09 A and B as approved alternative methods for

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magnesium in appendix A to subpart C of 40 CFR 141 on November 10, 2009 (at 74 Fed. Reg. 57908).

~~BOARD NOTE: USEPA added this method as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

16) Mercury.

A) Manual cold vapor technique.

- i) USEPA Environmental Metals Methods, ~~Method 245.1 (rev. 3.0);~~
- ii) ASTM Method D3223-97 or D3223-02; or
- iii) Standard Methods, 18th, 19th, or 21st ed., ~~Method 3112 B.~~

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for mercury by manual cold vapor technique in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 3112 B (as approved in 1999). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 3112 that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 3112 B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

B) Automated cold vapor technique: USEPA Inorganic Methods, ~~Method 245.2.~~C) Inductively coupled plasma-mass spectrometry: USEPA Environmental Metals Methods, ~~Method 200.8 (rev. 5.3).~~

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BOARD NOTE: USEPA added Standard Methods, 21st ed., Method 3112 B as an approved alternative method for mercury in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616).

17) Nickel.

A) Inductively coupled plasma.

- i) USEPA Environmental Metals Methods, ~~Method 200.7 (rev. 4.4);~~ or
- ii) Standard Methods, 18th, 19th, 20th, or 21st ed., ~~Method 3120 B.~~

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for nickel by inductively coupled plasma in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 3120 B (as approved in 1999). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods); since the version of Method 3120 that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 3120 B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

B) Inductively coupled plasma-mass spectrometry: USEPA Environmental Metals Methods, ~~Method 200.8 (rev. 5.3).~~C) Atomic absorption, platform furnace technique: USEPA Environmental Metals Methods, ~~Method 200.9 (rev. 2.2).~~D) Atomic absorption, direct aspiration technique: Standard Methods, 18th, 19th, or 21st ed., ~~Method 3111 B.~~

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~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for nickel by atomic absorption, direct aspiration technique, in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 3111 B (as approved in 1999). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 3111 that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 3111 B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- E) Atomic absorption, furnace technique: Standard Methods, 18th, 19th, or 21st ed.; Method 3113 B.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for nickel by atomic absorption, furnace technique, in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 3113 B (as approved in 1999). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 3113 that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 3113 B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- F) Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES): USEPA ~~NERL Methods:~~ Method 200.5.

BOARD NOTE: USEPA added Standard Methods, 21st ed., Methods 3111 B, 3113 B, and 3120 B and USEPA NERL Method 200.5 as approved alternative methods for nickel in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616).

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~~BOARD NOTE: USEPA added this method as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

18) Nitrate.

A) Ion chromatography.

- i) ~~USEPA Environmental Inorganic Methods, Method 300.0 (rev. 2.1) or USEPA Organic and Inorganic Methods, Method 300.1 (rev. 1.0);~~
- ii) ASTM Method D4327-97 or D4327-03;
- iii) Standard Methods, 18th, 19th, 20th, or 21st ed., Method 4110 B; or

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for nitrate by ion chromatography in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 4110 B (as approved in 2000). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 4110 that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 4110 B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- iv) Waters Test Method B-1011, available from Millipore Corporation.

B) Automated cadmium reduction.

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- i) USEPA Environmental Inorganic Methods; Method 353.2 (rev. 2.0);
- ii) ASTM Method D3867-90 A; or
- iii) Standard Methods, 18th, 19th, 20th, or 21st ed.; Method 4500-NO₃⁻ F.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for nitrate by automated cadmium reduction in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 4500-NO₃⁻ F (as approved in 2000). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 4500-NO₃⁻ that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 4500-NO₃⁻ F from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

C) Ion selective electrode.

- i) Standard Methods, 18th, 19th, 20th, or 21st ed.; Method 4500-NO₃⁻ D; or

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for nitrate by ion selective electrode in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 4500-NO₃⁻ D (as approved in 2000). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 4500-NO₃⁻ that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 4500-NO₃⁻ D from the~~

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~~21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

ii) Technical Bulletin 601.

D) Manual cadmium reduction.

i) ASTM Method D3867-90 B; or

ii) Standard Methods, 18th, 19th, 20th, or 21st ed.; Method 4500-NO₃⁻ E.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for nitrate by manual cadmium reduction in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 4500-NO₃⁻ E (as approved in 2000). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 4500-NO₃⁻ that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 4500-NO₃⁻ E from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

E) Capillary ion electrophoresis: ASTM Method D6508-00(2005).

BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for nitrate to add capillary ion electrophoresis in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of "Waters Method D6508, Rev. 2." The Board attempt to locate a copy of the method disclosed that it is an ASTM method originally approved in 2000 and reapproved in 2005. The Board has cited to the ASTM Method D6508-00(2005).

F) Reduction-colorimetric: Systea Easy (1-Reagent).

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BOARD NOTE: USEPA added Standard Methods, 21st ed., Methods 4110 B and 4500-NO₃⁻ D, E, and F as approved alternative methods for nitrate in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616). USEPA added Syssta Easy (1-Reagent) as an approved alternative method for nitrate in appendix A to subpart C of 40 CFR 141 on August 3, 2009 (at 73 Fed. Reg. 38348).

19) Nitrite.

A) Ion chromatography.

- i) USEPA Environmental Inorganic Methods, Method 300.0 (rev. 2.1) or USEPA Organic and Inorganic Methods, Method 300.1 (rev. 1.0);
- ii) ASTM Method D4327-97 or D4327-03;
- iii) Standard Methods, 18th, 19th, 20th, or 21st ed., Method 4110 B; or

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for nitrite by ion chromatography in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 4110 B (as approved in 2000). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 4110 that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 4110 B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- iv) Waters Test Method B-1011, available from Millipore Corporation.

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- B) Automated cadmium reduction.
- i) USEPA Environmental Inorganic Methods, ~~Method 353.2 (rev. 2.0)~~;
 - ii) ASTM Method D3867-90 A; or
 - iii) Standard Methods, 18th, 19th, 20th, or 21st ed., ~~Method 4500-NO₃⁻ F~~.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for nitrite by automated cadmium reduction in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 4500-NO₃⁻ F (as approved in 2000). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 4500-NO₃⁻ F that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 4500-NO₃⁻ F from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- C) Manual cadmium reduction.
- i) ASTM Method D3867-90 B; or
 - ii) Standard Methods, 18th, 19th, 20th, or 21st ed., ~~Method 4500-NO₃⁻ E~~.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for nitrite by manual cadmium reduction in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 4500-NO₃⁻ E (as approved in 2000). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water~~

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~~and Wastewater (the printed version of Standard Methods), since the version of Method 4500-NO₃⁻ that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 4500-NO₃⁻ E from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- D) Spectrophotometric: Standard Methods, 18th, 19th, 20th, or 21st ed., Method 4500-NO₂⁻ B.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for nitrite by spectrophotometric in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 4500-NO₂⁻ B (as approved in 2000). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 4500-NO₂⁻ that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 4500-NO₂⁻ B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- E) Capillary ion electrophoresis: ASTM Method D6508-00(2005).

BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for nitrite to add capillary ion electrophoresis in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of "Waters Method D6508, Rev. 2." The Board attempt to locate a copy of the method disclosed that it is an ASTM method originally approved in 2000 and reapproved in 2005. The Board has cited to the ASTM Method D6508-00(2005).

- F) Reduction-colorimetric: Systea Easy (1-Reagent).

BOARD NOTE: USEPA added Standard Methods, 21st ed., Methods 4110 B, 4500-NO₃⁻ E and F; and 4500-NO₂⁻ B as approved alternative

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methods for nitrite in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616). USEPA added Syssta Easy (1-Reagent) as an approved alternative method for nitrite in appendix A to subpart C of 40 CFR 141 on August 3, 2009 (at 73 Fed. Reg. 38348).

20) Orthophosphate (unfiltered, without digestion or hydrolysis).

A) Automated colorimetric, ascorbic acid.

- i) USEPA Environmental Inorganic Methods, Method 365.1 (rev. 2.0); or
- ii) Standard Methods, 18th, 19th, 20th, or 21st ed., Method 4500-P F.

~~BOARD NOTE: USEPA added Method 4500-P F from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616). USEPA also added Method 4500-P F (as approved in 1999) as available from Standard Methods Online (at www.standardmethods.org). The Board has instead cited only to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 4500-P F that appears in the printed volume is the 1999 version available from the online source.~~

B) Single reagent colorimetric, ascorbic acid.

- i) ASTM Method D515-88 A; or
- ii) Standard Methods, 18th, 19th, 20th, or 21st ed., Method 4500-P E.

~~BOARD NOTE: USEPA added Method 4500-P E from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

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~~USEPA also added Method 4500-P-E (as approved in 1999) as available from Standard Methods Online (at www.standardmethods.org). The Board has instead cited only to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 4500-P-E that appears in the printed volume is the 1999 version available from the online source.~~

- C) Colorimetric, phosphomolybdate: USGS Methods; Method I-1601-85.
- D) Colorimetric, phosphomolybdate, automated-segmented flow: USGS Methods; Method I-2601-90.
- E) Colorimetric, phosphomolybdate, automated discrete: USGS Methods; Method I-2598-85.
- F) Ion Chromatography.
 - i) USEPA Environmental Inorganic Methods: Method 300.0 ([rev. 2.1](#)) or [USEPA Organic and Inorganic Methods](#), Method 300.1 ([rev. 1.0](#));
 - ii) ASTM Method D4327-97 or D4327-03; or
 - iii) Standard Methods, 18th, 19th, 20th, or 21st ed.; Method 4110 B.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for orthophosphate by ion chromatography in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 4110 B (as approved in 2000). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 4110 that appears in that printed volume is that cited by USEPA as acceptable for~~

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~~use. USEPA later added Method 4110 B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- G) Capillary ion electrophoresis: ASTM Method D6508-00(2005).

BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for orthophosphate to add capillary ion electrophoresis in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of "Waters Method D6508, Rev. 2." The Board attempt to locate a copy of the method disclosed that it is an ASTM method originally approved in 2000 and reapproved in 2005. The Board has cited to the ASTM Method D6508-00(2005).

~~BOARD NOTE: USEPA added Standard Methods, 21st ed., Methods 4110 B, 4500-P E and F as approved alternative methods for orthophosphate in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- 21) pH: electrometric.
- A) USEPA Inorganic Methods, ~~Method 150.1 or Method 150.2;~~
- B) ASTM Method D1293-95 or D1293-99; or
- C) Standard Methods, 18th, 19th, 20th, or 21st ed., ~~Method 4500-H⁺ B.~~

~~BOARD NOTE: USEPA added Standard Methods, 21st ed., Method 4500-H⁺ B as an approved alternative method for pH in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616).~~

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for pH by electrometric in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 4500-H⁺ B (as approved in 2000). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the~~

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~~version of Method 4500-H⁺ that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 4500-H⁺ B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

22) Selenium.

A) Atomic absorption, hydride.

- i) ~~ASTM Method D3859-98 A₂ or D3859-03 A₂ or D3859-08 A₂; or~~
- ii) ~~Standard Methods, 18th, 19th, or 21st ed.; Method 3114 B.~~

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for selenium by atomic absorption, hydride, in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 3114 B (as approved in 1997). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 3114 that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 3114 B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- B) Inductively coupled plasma-mass spectrometry: USEPA Environmental Metals Methods; Method 200.8 (rev. 5.3).
- C) Atomic absorption, platform furnace technique: USEPA Environmental Metals Methods; Method 200.9 (rev. 2.2).
- D) Atomic absorption, furnace technique.

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- i) ASTM Method D3859-98 B, ~~or~~ D3859-03 B, or D3859-08 B; or
- ii) Standard Methods, 18th, 19th, or 21st ed., ~~or~~ Method 3113 B.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for selenium by atomic absorption, furnace technique, in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 3113 B (as approved in 1999). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 3113 that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 3113 B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- E) Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES): USEPA ~~NERL Methods:~~ Method 200.5.

BOARD NOTE: USEPA added Standard Methods, 21st ed., Methods 3113 B and 3114 B and USEPA NERL Method 200.5 as approved alternative methods for selenium in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616). USEPA added ASTM Methods D3859-08 A and B as approved alternative methods for selenium in appendix A to subpart C of 40 CFR 141 on November 10, 2009 (at 74 Fed. Reg. 57908).

~~BOARD NOTE: USEPA added this method as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- 23) Silica.

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- A) Colorimetric, molybdate blue: USGS Methods, Method I-1700-85.
- B) Colorimetric, molybdate blue, automated-segmented flow: USGS Methods, Method I-2700-85.
- C) Colorimetric: ASTM Method D859-94, D859-00, or D859-05.

~~BOARD NOTE: USEPA added ASTM Method D859-05 as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- D) Molybdosilicate: Standard Methods, 18th or 19th ed., Method 4500-Si D or Standard Methods, 20th or 21st ed., Method 4500-SiO₂ C.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for silica by molybdosilicate in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 4500-SiO₂-C (as approved in 1997). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 4500-SiO₂ that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 4500-SiO₂-C from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- E) Heteropoly blue: Standard Methods, 18th or 19th ed., Method 4500-Si E or Standard Methods, 20th or 21st ed., Method 4500-SiO₂ D.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for silica by heteropoly blue in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 4500-SiO₂-D (as approved in 1997). The Board has instead cited~~

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~~to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods); since the version of Method 4500-SiO₂ that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 4500-SiO₂-D from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- F) Automated method for molybdate-reactive silica: Standard Methods, 18th or 19th ed.; Method 4500-Si F or Standard Methods, 20th or 21st ed.; Method 4500-SiO₂ E.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for silica by automated method for molybdate-reactive silica in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 4500-SiO₂-E (as approved in 1997). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 4500-SiO₂ that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 4500-SiO₂-E from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- G) Inductively coupled plasma.

- i) USEPA Environmental Metals Methods; Method 200.7 ([rev. 4.4](#)); or
- ii) Standard Methods, 18th, 19th, 20th, or 21st ed.; Method 3120 B.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for silica by inductively coupled plasma in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods~~

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~~Online (at www.standardmethods.org), Method 3120 B (as approved in 1999). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 3120 that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 3120 B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- H) Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES): USEPA ~~NERL Methods:~~ Method 200.5.

BOARD NOTE: USEPA added ASTM Method D859-05, Standard Methods, 21st ed.; Methods 3120 B and 4500-SiO₂ C, D, and E; and USEPA NERL Method 200.5 as approved alternative methods for silica in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616).

~~BOARD NOTE: USEPA added this method as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

24) Sodium.

- A) Inductively coupled plasma: USEPA Environmental Metals Methods;~~:~~ Method 200.7 (rev. 4.4).
- B) Atomic absorption, direct aspiration: Standard Methods, 18th, 19th, or 21st ed.~~:~~ Method 3111 B.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for sodium by atomic absorption, direct aspiration, in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 3111 B (as approved in 1999). The Board has instead cited to the 21st edition of Standard~~

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~~Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 3111 that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 3111-B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- C) Ion chromatography: ASTM Method D6919-03.
- D) Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES): USEPA ~~NERL Methods:~~ Method 200.5.

BOARD NOTE: USEPA added Standard Methods, 21st ed., Method 3113 B and USEPA NERL Method 200.5 as approved alternative methods for sodium in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616).

~~BOARD NOTE: USEPA added this method as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- 25) Temperature; thermometric: Standard Methods, 18th, 19th, 20th, or 21st ed.; ~~Method 2550.~~

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for temperature by thermometric in the table at corresponding 40 CFR 141.23(k)(1) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 2550 (as approved in 2000). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 2550 that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 2550 from the 21st edition of Standard Methods. USEPA added Standard Methods, 21st ed., Method 2550 as an approved alternative method for temperature in appendix A to subpart C; added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

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- 26) Thallium.
- A) Inductively coupled plasma-mass spectrometry: USEPA Environmental Metals Methods, Method 200.8 (rev. 5.3).
 - B) Atomic absorption, platform furnace technique: USEPA Environmental Metals Methods, Method 200.9 (rev. 2.2).
- b) Sample collection for antimony, arsenic (effective January 22, 2004), asbestos, barium, beryllium, cadmium, chromium, cyanide, fluoride, mercury, nickel, nitrate, nitrite, selenium, and thallium pursuant to Sections 611.600 through 611.604 must be conducted using the following sample preservation, container, and maximum holding time procedures:

BOARD NOTE: For cyanide determinations samples must be adjusted with sodium hydroxide to pH 12 at the time of collection. When chilling is indicated the sample must be shipped and stored at 4° C or less. Acidification of nitrate or metals samples may be with a concentrated acid or a dilute (50% by volume) solution of the applicable concentrated acid. Acidification of samples for metals analysis is encouraged and allowed at the laboratory rather than at the time of sampling provided the shipping time and other instructions in Section 8.3 of USEPA Environmental Metals Method 200.7, 200.8, or 200.9 are followed.

- 1) Antimony.
 - A) Preservative: Concentrated nitric acid to pH less than 2.
 - B) Plastic or glass (hard or soft).
 - C) Holding time: Samples must be analyzed as soon after collection as possible, but in any event within six months.
- 2) Arsenic.
 - A) Preservative: Concentrated nitric acid to pH less than 2.
 - B) Plastic or glass (hard or soft).

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- C) Holding time: Samples must be analyzed as soon after collection as possible, but in any event within six months.
- 3) Asbestos.
- A) Preservative: Cool to 4° C.
 - B) Plastic or glass (hard or soft).
 - C) Holding time: Samples must be analyzed as soon after collection as possible, but in any event within 48 hours.
- 4) Barium.
- A) Preservative: Concentrated nitric acid to pH less than 2.
 - B) Plastic or glass (hard or soft).
 - C) Holding time: Samples must be analyzed as soon after collection as possible, but in any event within six months.
- 5) Beryllium.
- A) Preservative: Concentrated nitric acid to pH less than 2.
 - B) Plastic or glass (hard or soft).
 - C) Holding time: Samples must be analyzed as soon after collection as possible, but in any event within six months.
- 6) Cadmium.
- A) Preservative: Concentrated nitric acid to pH less than 2.
 - B) Plastic or glass (hard or soft).
 - C) Holding time: Samples must be analyzed as soon after collection as possible, but in any event within six months.

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- 7) Chromium.
 - A) Preservative: Concentrated nitric acid to pH less than 2.
 - B) Plastic or glass (hard or soft).
 - C) Holding time: Samples must be analyzed as soon after collection as possible, but in any event within six months.
- 8) Cyanide.
 - A) Preservative: Cool to 4° C. Add sodium hydroxide to pH greater than 12. See the analytical methods for information on sample preservation.
 - B) Plastic or glass (hard or soft).
 - C) Holding time: Samples must be analyzed as soon after collection as possible, but in any event within 14 days.
- 9) Fluoride.
 - A) Preservative: None.
 - B) Plastic or glass (hard or soft).
 - C) Holding time: Samples must be analyzed as soon after collection as possible, but in any event within one month.
- 10) Mercury.
 - A) Preservative: Concentrated nitric acid to pH less than 2.
 - B) Plastic or glass (hard or soft).
 - C) Holding time: Samples must be analyzed as soon after collection as possible, but in any event within 28 days.
- 11) Nickel.

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- A) Preservative: Concentrated nitric acid to pH less than 2.
 - B) Plastic or glass (hard or soft).
 - C) Holding time: Samples must be analyzed as soon after collection as possible, but in any event within six months.
- 12) Nitrate, chlorinated.
- A) Preservative: Cool to 4° C.
 - B) Plastic or glass (hard or soft).
 - C) Holding time: Samples must be analyzed as soon after collection as possible, but in any event within 14 days.
- 13) Nitrate, non-chlorinated.
- A) Preservative: Concentrated sulfuric acid to pH less than 2.
 - B) Plastic or glass (hard or soft).
 - C) Holding time: Samples must be analyzed as soon after collection as possible, but in any event within 14 days.
- 14) Nitrite.
- A) Preservative: Cool to 4° C.
 - B) Plastic or glass (hard or soft).
 - C) Holding time: Samples must be analyzed as soon after collection as possible, but in any event within 48 hours.
- 15) Selenium.
- A) Preservative: Concentrated nitric acid to pH less than 2.

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- B) Plastic or glass (hard or soft).
 - C) Holding time: Samples must be analyzed as soon after collection as possible, but in any event within six months.
- 16) Thallium.
- A) Preservative: Concentrated nitric acid to pH less than 2.
 - B) Plastic or glass (hard or soft).
 - C) Holding time: Samples must be analyzed as soon after collection as possible, but in any event within six months.
- c) Analyses under this Subpart N must be conducted by laboratories that received approval from USEPA or the Agency. The Agency must certify laboratories to conduct analyses for antimony, arsenic (effective January 23, 2006), asbestos, barium, beryllium, cadmium, chromium, cyanide, fluoride, mercury, nickel, nitrate, nitrite, selenium, and thallium if the laboratory does as follows:
- 1) It analyzes performance evaluation (PE) samples, provided by the Agency pursuant to 35 Ill. Adm. Code 186, that include those substances at levels not in excess of levels expected in drinking water; and
 - 2) It achieves quantitative results on the analyses within the following acceptance limits:
 - A) Antimony: $\pm 30\%$ at greater than or equal to 0.006 mg/l.
 - B) Arsenic: $\pm 30\%$ at greater than or equal to 0.003 mg/l.
 - C) Asbestos: 2 standard deviations based on study statistics.
 - D) Barium: $\pm 15\%$ at greater than or equal to 0.15 mg/l.
 - E) Beryllium: $\pm 15\%$ at greater than or equal to 0.001 mg/l.
 - F) Cadmium: $\pm 20\%$ at greater than or equal to 0.002 mg/l.

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- G) Chromium: $\pm 15\%$ at greater than or equal to 0.01 mg/l.
- H) Cyanide: $\pm 25\%$ at greater than or equal to 0.1 mg/l.
- I) Fluoride: $\pm 10\%$ at 1 to 10 mg/l.
- J) Mercury: $\pm 30\%$ at greater than or equal to 0.0005 mg/l.
- K) Nickel: $\pm 15\%$ at greater than or equal to 0.01 mg/l.
- L) Nitrate: $\pm 10\%$ at greater than or equal to 0.4 mg/l.
- M) Nitrite: $\pm 15\%$ at greater than or equal to 0.4 mg/l.
- N) Selenium: $\pm 20\%$ at greater than or equal to 0.01 mg/l.
- O) Thallium: $\pm 30\%$ at greater than or equal to 0.002 mg/l.

BOARD NOTE: Derived from 40 CFR 141.23(k) (~~2007~~) and appendix A to 40 CFR 141 (~~2010~~); as added at 73 Fed. Reg. 31616 (June 3, 2008).

(Source: Amended at 34 Ill. Reg. 19848, effective December 7, 2010)

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.

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- 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) of this Section 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 pursuant to subsection (b) of this Section, 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 pursuant to Subpart V of this Part. Monitoring after public notification must be at a frequency designated by the Agency by a SEP granted pursuant to Section 611.110 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 granted pursuant to Section 611.110.
- 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) Except for arsenic, for which analyses must be made in accordance with Section 611.611, 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 pursuant to Section 611.480.
 - 1) Fluoride: The methods specified in Section 611.611(c) must apply for the purposes of this Section.

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2) Iron.

A) Standard Methods.

- i) Method 3111 B, 18th, 19th, or 21st ed.;
- ii) Method 3113 B, 18th, 19th, or 21st ed.;
- iii) Method 3120 B, 18th, 19th, 20th, or 21st ed.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entries for iron in the table at 40 CFR 143.4(b) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 3111 B, Method 3113 B, and Method 3120 B (as approved in 1999). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the versions of Method 3111, Method 3113, and Method 3120 that appear in that printed volume are those cited by USEPA as acceptable for use. USEPA later added Method 3111 B, Method 3113 B, and Method 3120 B from the 21st edition of Standard Methods as approved alternative methods in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

B) USEPA Environmental Metals Methods.

- i) Method 200.7 ([rev. 4.4](#)); or
- ii) Method 200.9 ([rev. 2.2](#)).

C) Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES): USEPA ~~NERL Methods:~~ Method 200.5.

BOARD NOTE: USEPA added this method as an approved alternative method in appendix A to subpart C of 40 CFR 141, ~~added~~ on June 3, 2008 (at 73 Fed. Reg. 31616).

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BOARD NOTE: USEPA added Standard Methods, 21st ed.; Methods 3111 B, 3113 B, and 3120 B and USEPA NERL Method 200.5 as approved alternative methods for iron in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616).

3) Manganese.

A) Standard Methods.

- i) Method 3111 B, 18th, 19th, or 21st ed.;
- ii) Method 3113 B, 18th, 19th, or 21st ed.; or
- iii) Method 3120 B, 18th, 19th, 20th, or 21st ed.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entries for manganese in the table at 40 CFR 143.4(b) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 3111 B, Method 3113 B, and Method 3120 B (as approved in 1999). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the versions of Method 3111, Method 3113, and Method 3120 that appear in that printed volume are those cited by USEPA as acceptable for use. USEPA later added Method 3111 B, Method 3113 B, and Method 3120 B from the 21st edition of Standard Methods as approved alternative methods in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

B) USEPA Environmental Metals Methods.

- i) Method 200.7 ([rev. 4.4](#));
- ii) Method 200.8 ([rev. 5.3](#)); or
- iii) Method 200.9 ([rev. 2.2](#)).

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- C) Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES): USEPA ~~NERL Methods-~~ Method 200.5.

BOARD NOTE: USEPA added Standard Methods, 21st ed.; Methods 3111 B, 3113 B, and 3120 B and USEPA NERL Method 200.5 as approved alternative methods for manganese in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616).

~~BOARD NOTE: USEPA added this method as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- 4) Zinc.

- A) Standard Methods.

- i) Method 3111 B, 18th, 19th, or 21st ed.; or
ii) Method 3120 B, 18th, 19th, 20th, or 21st ed.

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entries for zinc in the table at 40 CFR 143.4(b) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 3111 B and Method 3120 B (as approved in 1999). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the versions of Method 3111 and Method 3120 that appear in that printed volume are those cited by USEPA as acceptable for use. USEPA later added Method 3111 B, Method 3113 B, and Method 3120 B from the 21st edition of Standard Methods as approved alternative methods in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- B) USEPA Environmental Metals Methods.

- i) Method 200.7 (rev. 4.4); or

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- ii) Method 200.8 (rev. 5.3).
- C) Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES): USEPA ~~NERL Methods~~: Method 200.5.

BOARD NOTE: USEPA added Standard Methods, 21st ed.; Methods 3111 B and 3120 B and USEPA NERL Method 200.5 as approved alternative methods for zinc in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616).

~~BOARD NOTE: USEPA added this method as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

BOARD NOTE: The provisions of subsections (a) through ~~(e)(f)~~ of this Section derive from 40 CFR 141.23(l) through (p) ~~(2010)(2007)~~. Subsections (f)(2) through (f)(4) of this Section relate exclusively to additional State requirements. The Board retained subsection (f) of this Section 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) ~~(2007)~~ and appendix A to subpart C of 40 CFR 141 (2010), ~~as added at 73 Fed. Reg. 31616 (June 3, 2008)~~, for secondary MCLs.

(Source: Amended at 34 Ill. Reg. 19848, effective December 7, 2010)

SUBPART O: ORGANIC MONITORING AND ANALYTICAL REQUIREMENTS

Section 611.645 Analytical Methods for Organic Chemical Contaminants

Analysis for the Section 611.311(a) VOCs under Section 611.646; the Section 611.311(c) SOCs under Section 611.648; the Section 611.310 old MCLs under Section 611.641; and for THMs, TTHMs, and TTHM potential must be conducted using the methods listed in this Section ~~or by alternative methods as approved by the Agency pursuant to Section 611.480~~. All methods are from USEPA Organic Methods, unless otherwise indicated. All methods are incorporated by reference in Section 611.102. Other required analytical test procedures germane to the conduct of these analyses are contained in the USEPA document, "Technical Notes of Drinking Water Methods," incorporated by reference in Section 611.102.

Volatile Organic Chemical Contaminants (VOCs).

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Contaminant	Analytical Methods
Benzene	502.2 (rev. 2.1), 524.2 (rev. 4.1), USEPA OGWDW Methods, Method 524.3 (rev. 1.0)
Carbon tetrachloride	502.2 (rev. 2.1), 524.2 (rev. 4.1), USEPA OGWDW Methods, Method 524.3 (rev. 1.0) , 551.1 (rev. 1.0)
Chlorobenzene	502.2 (rev. 2.1), 524.2 (rev. 4.1), USEPA OGWDW Methods, Method 524.3 (rev. 1.0)
1,2-Dichlorobenzene	502.2 (rev. 2.1), 524.2 (rev. 4.1), USEPA OGWDW Methods, Method 524.3 (rev. 1.0)
1,4-Dichlorobenzene	502.2 (rev. 2.1), 524.2 (rev. 4.1), USEPA OGWDW Methods, Method 524.3 (rev. 1.0)
1,2-Dichloroethane	502.2 (rev. 2.1), 524.2 (rev. 4.1), USEPA OGWDW Methods, Method 524.3 (rev. 1.0)
cis-Dichloroethylene	502.2 (rev. 2.1), 524.2 (rev. 4.1), USEPA OGWDW Methods, Method 524.3 (rev. 1.0)
trans-Dichloroethylene	502.2 (rev. 2.1), 524.2 (rev. 4.1), USEPA OGWDW Methods, Method 524.3 (rev. 1.0)
Dichloromethane	502.2 (rev. 2.1), 524.2 (rev. 4.1), USEPA OGWDW Methods, Method 524.3 (rev. 1.0)

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1,2-Dichloropropane	502.2 (rev. 2.1) , 524.2 (rev. 4.1) , USEPA OGWDW Methods, Method 524.3 (rev. 1.0)
Ethylbenzene	502.2 (rev. 2.1) , 524.2 (rev. 4.1) , USEPA OGWDW Methods, Method 524.3 (rev. 1.0)
Styrene	502.2 (rev. 2.1) , 524.2 (rev. 4.1) , USEPA OGWDW Methods, Method 524.3 (rev. 1.0)
Tetrachloroethylene	502.2 (rev. 2.1) , 524.2 (rev. 4.1) , USEPA OGWDW Methods, Method 524.3 (rev. 1.0) , 551.1 (rev. 1.0)
1,1,1-Trichloroethane	502.2 (rev. 2.1) , 524.2 (rev. 4.1) , USEPA OGWDW Methods, Method 524.3 (rev. 1.0) , 551.1 (rev. 1.0)
Trichloroethylene	502.2 (rev. 2.1) , 524.2 (rev. 4.1) , USEPA OGWDW Methods, Method 524.3 (rev. 1.0) , 551.1 (rev. 1.0)
Toluene	502.2 (rev. 2.1) , 524.2 (rev. 4.1) , USEPA OGWDW Methods, Method 524.3 (rev. 1.0)
1,2,4-Trichlorobenzene	502.2 (rev. 2.1) , 524.2 (rev. 4.1) , USEPA OGWDW Methods, Method 524.3 (rev. 1.0)
1,1-Dichloroethylene	502.2 (rev. 2.1) , 524.2 (rev. 4.1) , USEPA OGWDW Methods, Method 524.3 (rev. 1.0)

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1,1,2-Trichloroethane	502.2 (rev. 2.1) , 524.2 (rev. 4.1) , USEPA OGWDW Methods, Method 524.3 (rev. 1.0)
Vinyl chloride	502.2 (rev. 2.1) , 524.2 (rev. 4.1) , USEPA OGWDW Methods, Method 524.3 (rev. 1.0)
Xylenes (total)	502.2 (rev. 2.1) , 524.2 (rev. 4.1) , USEPA OGWDW Methods, Method 524.3 (rev. 1.0)

[BOARD NOTE: USEPA added USEPA OGWDW Method 524.3 \(rev. 1.0\) as an alternative method for all of the VOCs in appendix A to subpart C of 40 CFR 141 on August 3, 2009 \(at 74 Fed. Reg. 38348\).](#)

Synthetic Organic Chemical Contaminants (SOCs).

Contaminant	Analytical Methods
2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCDD or dioxin)	Dioxin and Furan Method 1613 (rev. B)
2,4-D	515.2 (rev. 1.1) , 555 (rev. 1.0) , 515.1 (rev. 4.0) , USEPA Organic and Inorganic Methods, Method 515.3 (rev. 1.0) , USEPA OGWDW Methods, Method 515.4 (rev. 1.0) , ASTM Method D5317-93 or D5317-98

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2,4,5-TP (Silvex)	515.2 (rev. 1.1), 555 (rev. 1.0), 515.1 (rev. 4.0), USEPA Organic and Inorganic Methods, Method 515.3 (rev. 1.0) , USEPA OGWDW Methods, Method 515.4 (rev. 1.0) , ASTM Method D5317-93 or D5317-98
Alachlor	505 (rev. 2.1) ¹ , 507 (rev. 2.1), 508.1 (rev. 2.0), 525.2 (rev. 2.0), 551.1 (rev. 1.0)
Atrazine	505 (rev. 2.1) ¹ , 507 (rev. 2.1), 508.1 (rev. 2.1), 525.2 (rev. 2.0), 551.1 (rev. 1.0), Syngenta AG-625 ²
Benzo(a)pyrene	525.2 (rev. 2.0), 550, 550.1
Carbofuran	531.1 (rev. 3.1), USEPA OGWDW Methods, Method 531.2 (rev. 1.0) , Standard Methods, 18 th ed. Supplement, 19 th ed., or 20 th ed.; Method 6610 or Standard Methods 21 st ed. or Standard Methods Online; Method 6610 B-04
Chlordane	505 (rev. 2.1), 508 (rev. 3.1), 508.1 (rev. 2.1), 525.2 (rev. 2.0)

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Dalapon	515.1 (rev. 4.0) , 552.1 (rev. 1.0) , 552.2 (rev. 1.0) , USEPA Organic and Inorganic Methods, Method 515.3 (rev. 1.0) , USEPA OGWDW Methods, Method 515.4 (rev. 1.0) , OGWDW Methods, Method 552.3 (rev. 1.0) , and 557; and Standard Methods, 21st ed., Method 6640 B
Di(2-ethylhexyl)adipate	506 (rev. 1.1) , 525.2 (rev. 2.0)
Di(2-ethylhexyl)phthalate	506 (rev. 1.1) , 525.2 (rev. 2.0)
Dibromochloropropane (DBCP)	504.1 (rev. 1.1) , USEPA OGWDW Methods, Method 524.3 (rev. 1.0) , 551.1 (rev. 1.0)
Dinoseb	515.1 (rev. 4.0) , 515.2 (rev. 1.1) , USEPA Organic and Inorganic Methods, Method 515.3 (rev. 1.0) , USEPA OGWDW Methods, Method 515.4 (rev. 1.0) , 555 (rev. 1.0)
Diquat	USEPA NERL Method 549.2 (rev. 1.0) 549.1
Endothall	548.1 (rev. 2.0)
Endrin	505 (rev. 2.1) , 508 (rev. 3.1) , 508.1 (rev. 2.0) , 525.2 (rev. 2.0) , 551.1 (rev. 1.0)
Ethylene dibromide Dibromide (EDB)	504.1 (rev. 1.1) , USEPA OGWDW Methods, Method 524.3 (rev. 1.0) , 551.1 (rev.1.0)

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Glyphosate	547, Standard Methods, 18 th ed., 19 th ed., or 20 th ed.; Method 6651
Heptachlor	505 (rev. 2.1) , 508 (rev. 3.1) , 508.1 (rev. 2.0) , 525.2 (rev. 2.0) , 551.1 (rev. 1.0)
Heptachlor Epoxide	505 (rev. 2.1) , 508 (rev. 3.1) , 508.1 (rev. 2.0) , 525.2 (rev. 2.0) , 551.1 (rev. 1.0)
Hexachlorobenzene	505 (rev. 2.1) , 508 (rev. 3.1) , 508.1 (rev. 2.0) , 525.2 (rev. 2.0) , 551.1 (rev. 1.0)
Hexachlorocyclopentadiene	505 (rev. 2.1) , 508 (rev. 3.1) , 508.1 (rev. 2.0) , 525.2 (rev. 2.0) , 551.1 (rev. 1.0)
Lindane	505 (rev. 2.1) , 508 (rev. 3.1) , 508.1 (rev. 2.0) , 525.2 (rev. 2.0) , 551.1 (rev. 1.0)
Methoxychlor	505 (rev. 2.1) , 508 (rev. 3.1) , 508.1 (rev. 2.0) , 525.2 (rev. 2.0) , 551.1 (rev. 1.0)
Oxamyl	531.1 (rev. 3.1) ; USEPA OGWDW Methods, Method 531.2 (rev. 1.0) ; Standard Methods, 18 th ed. Supplement, 19 th ed., or 20 th ed.; Method 6610; or Standard Methods 21 st ed.; Method 6610 B ; or Standard Methods Online; Method 6610 B- 04

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PCBs (measured for compliance purposes as decachlorobiphenyl decchlorobiphenyl)	508A <u>(rev. 1.0)</u>
PCBs (qualitatively identified as Aroclors)	505 <u>(rev. 2.1)</u> , 508 <u>(rev. 3.1)</u> , 508.1 <u>(rev. 2.0)</u> , 525.2 <u>(rev. 2.0)</u>
Pentachlorophenol	515.1 <u>(rev. 4.0)</u> , 515.2 <u>(rev. 1.1)</u> , 525.2 <u>(rev. 2.0)</u> , 555 <u>(rev. 1.0)</u> , <u>USEPA Organic and Inorganic Methods, Method 515.3 (rev. 1.0)</u> , <u>USEPA OGWDW Methods, Method 515.4 (rev. 1.0)</u> , ASTM Method D5317-93 or D5317-98(2003)
Picloram	515.1 <u>(rev. 4.0)</u> , 515.2, <u>(rev. 1.1)</u> , 555 <u>(rev. 1.0)</u> , <u>USEPA Organic and Inorganic Methods, Method 515.3 (rev. 1.0)</u> , <u>USEPA OGWDW Methods, Method 515.4 (rev. 1.0)</u> , ASTM Method D5317-93 or D5317-98(2003)
Simazine	505 <u>(rev. 2.1)</u> ¹ , 507 <u>(rev. 2.1)</u> , 508.1 <u>(rev. 2.0)</u> , 525.2 <u>(rev. 2.0)</u> , <u>551.1 (rev. 1.0)</u> 551.2
Toxaphene	505 <u>(rev. 2.1)</u> , 508 <u>(rev. 2.1)</u> , 508.1 <u>(rev. 2.0)</u> , 525.2 <u>(rev. 2.0)</u> , 508.1

BOARD NOTE: USEPA added Standard Methods, 21st ed., Method 6610 B and Standard Methods Online, Method 6610 B-04 as approved alternative methods for carbofuran and oxamyl on June 3, 2008 (at 73 Fed. Reg. 31616). USEPA added USEPA OGWDW Method 524.3 (rev. 1.0) as an alternative method for dibromochloropropane and ethylene dibromide in appendix A to subpart C of 40 CFR 141 on August 3, 2009 (at 74 Fed. Reg. 38348). USEPA approved Standard Methods, 21st ed., Method 6640 B and

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Standard Methods Online, Method 6640 B-01 and USEPA OGWDW Methods, Method 557 as approved alternative methods for dalapon in appendix A to subpart C of 40 CFR 141 on June 8, 2010 (at 75 Fed. Reg. 32295). Since the version of Method 6640 that appears in Standard Methods Online is the same as that which appears in Standard Methods, 21st ed., the Board has cited only to Standard Methods, 21st ed.

Total Trihalomethanes (TTHMs).

Contaminant	Analytical Methods
Total Trihalomethanes (TTHMs), Trihalomethanes (THMs), and Maximum Total Trihalomethane Potential	502.2 (rev. 2.1), 524.2 (rev. 4.1), USEPA OGWDW Methods, Method 524.3 (rev. 1.0), 551.1 (rev. 1.0)

BOARD NOTE: USEPA added USEPA OGWDW Method 524.3 (rev. 1.0) as an alternative method for total trihalomethane in appendix A to subpart C of 40 CFR 141 on August 3, 2009 (at 74 Fed. Reg. 38348).

State-Only MCLs (for which a method is not listed above).

Contaminant	Analytical Methods
Aldrin	505 (rev. 2.1), 508 (rev. 3.1), 508.1 (rev. 2.0), 525.2 (rev. 2.0)
DDT	505 (rev. 2.1), 508 (rev. 3.1)
Dieldrin	505 (rev. 2.1), 508 (rev. 3.1), 508.1 (rev. 2.0), 525.2 (rev. 2.0)

¹ denotes that, for the particular contaminant, a nitrogen-phosphorus detector should be substituted for the electron capture detector in method 505 (or another approved method should be used) to determine alachlor, atrazine, and simazine if lower detection limits are required.

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² denotes that Syngenta Method AG-625 may not be used for the analysis of atrazine in any system where chlorine dioxide is used for drinking water treatment. In samples from all other systems, any result for atrazine generated by Syngenta Method AG-625 that is greater than one-half the maximum contaminant level (MCL) (in other words, greater than 0.0015mg/ℓ or 1.5 µg/ℓ) must be confirmed using another approved method for this contaminant and should use additional volume of the original sample collected for compliance monitoring. In instances where a result from Syngenta Method AG-625 triggers such confirmatory testing, the confirmatory result is to be used to determine compliance.

BOARD NOTE: Derived from 40 CFR 141.24(e) ~~(2007)~~ and appendix A to subpart C of 40 CFR 141 (2010), as ~~amended~~ at ~~7473~~ Fed. Reg. 38348 (August 3, 2009) and 75 Fed. Reg. 32295 (June 8, 2010) ~~31616 (June 3, 2008)~~.

(Source: Amended at 34 Ill. Reg. 19848, effective December 7, 2010)

SUBPART P: THM MONITORING AND ANALYTICAL REQUIREMENTS

Section 611.680 Sampling, Analytical, and other Requirements

- a) Required monitoring.
 - 1) A CWS supplier that serves a population of 10,000 or more individuals and which adds a disinfectant (oxidant) to the water in any part of the drinking water treatment process must analyze for TTHMs in accordance with this Subpart P.
 - 2) For the purpose of this Subpart P, the minimum number of samples required to be taken by the supplier must be based on the number of treatment plants used by the supplier. However, the Agency shall, by a SEP issued pursuant to Section 611.110, provide that multiple wells drawing raw water from a single aquifer be considered one treatment plant for determining the minimum number of samples.
 - 3) All samples taken within an established frequency must be collected within a 24-hour period.
- b) A CWS supplier that serves 10,000 or more individuals.
 - 1) For a CWS supplier utilizing surface a water source in whole or in part,

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and for a CWS supplier utilizing only a groundwater source, except as provided in Section 611.683, analyses for TTHMs must be performed at quarterly intervals on at least four water samples for each treatment plant used by the system. At least 25 percent of the samples must be taken at locations within the distribution system reflecting the maximum residence time (MRT) of the water in the system. The remaining 75 percent must be taken at representative locations in the distribution system, taking into account the number of persons served, different sources of water and different treatment methods employed. The results of all analyses per quarter must be arithmetically averaged and reported to the Agency within 30 days after the supplier's receipt of such results. All samples collected must be used in the computation of the average, unless the analytical results are invalidated for technical reasons. Sampling and analyses must be conducted in accordance with the methods listed in Section 611.685.

- 2) Upon application by a CWS supplier, the Agency must, by a SEP issued pursuant to Section 611.110, reduce the monitoring frequency required by subsection (b)(1) to a minimum of one sample analyzed for TTHMs per quarter taken at a point in the distribution system reflecting the MRT of the water in the system, if the Agency determines that the data from at least one year of monitoring in accordance with subsection (b)(1) and local conditions demonstrate that TTHM concentrations will be consistently below the MCL.
- 3) If at any time during which the reduced monitoring frequency prescribed under this subsection (b) applies, the results from any analysis exceed 0.10 mg/l TTHMs and such results are confirmed by at least one check sample taken promptly after such results are received, or if the CWS supplier makes any significant change to its source of water or treatment program, the supplier must immediately begin monitoring in accordance with the requirements of subsection (b)(1), which monitoring must continue for at least one+ year before the frequency may be reduced again. The Agency must, by a SEP issued pursuant to Section 611.110, require monitoring in excess of the minimum frequency where it is necessary to detect variations of TTHM levels within the distribution system.

BOARD NOTE: Subsections (a) and (b) of this Section are derived from 40 CFR 141.30(a) and (b) ~~(2010)(2002)~~, modified to remove the limitation regarding addition of disinfectant.

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- c) Surface water sources for a CWS supplier that serves fewer than 10,000 individuals. Suppliers must have submitted at least one initial sample per treatment plant for analysis or analytical results from a certified laboratory for MRT concentration taken between May 1, 1990, and October 31, 1990. After written request by the supplier and the determination by the Agency that the results of the sample indicate that the CWS supplier is not likely to exceed the MCL, the CWS must continue to submit one annual sample per treatment plant for analysis or analytical results from a certified laboratory to the Agency taken between May 1 and October 31 of succeeding years. If the sample exceeds the MCL, the CWS must submit to the Agency samples in accordance with the sampling frequency specified in subsection (b) of this Section.

BOARD NOTE: This is an additional State requirement.

- d) Groundwater sources for a CWS supplier that serves fewer than 10,000 individuals. Suppliers are not required to submit samples for THM analysis under this Subpart P.

BOARD NOTE: This is an additional State requirement.

(Source: Amended at 34 Ill. Reg. 19848, effective December 7, 2010)

SUBPART Q: RADIOLOGICAL MONITORING AND ANALYTICAL REQUIREMENTS

Section 611.720 Analytical Methods

- a) The methods specified below, or alternative methods approved by the Agency pursuant to Section 611.480, incorporated by reference in Section 611.102, are to be used to determine compliance with Section 611.330, except in cases where alternative methods have been approved in accordance with Section 611.480.
- 1) Gross Alpha and Beta.
 - A) Standard Methods.
 - i) Method 302, 13th ed.; or
 - ii) Method 7110 B, 17th, 18th, 19th, 20th, or 21st ed.;

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~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for gross alpha and beta by evaporation in the table at corresponding 40 CFR 141.25(a) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 7110-B (as approved in 2000). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 7110 that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 7110-B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- B) USEPA Interim Radiochemical Methods: ~~pagespage 1-3~~;
- C) USEPA Radioactivity Methods, ~~:-~~ Method 900.0;
- D) USEPA Radiochemical Analyses: ~~pagespage 1-5~~;
- E) USEPA Radiochemistry Methods Procedures, ~~:- Method~~ 00-01; or
- F) USGS Methods, ~~:-~~ Method R-1120-76.

BOARD NOTE: USEPA added Standard Methods, 21st ed., Method 7110 B as an approved alternative method for gross alpha and beta in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616).

2) Gross Alpha.

- A) Standard Methods, 18th, 19th, 20th, or 21st ed., ~~:-~~ Method 7110 C; or

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for gross alpha by coprecipitation in the table at corresponding 40 CFR 141.25(a) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 7110-C (as approved in 2000). The Board has instead cited to the~~

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~~21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 7110 that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 7110 C from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- B) USEPA Radiochemistry ~~Procedures, Methods:~~ Method 00-02.

BOARD NOTE: USEPA added Standard Methods, 21st ed., Method 7110 C as an approved alternative method for gross alpha in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616).

- 3) Radium-226.

- A) ASTM Methods.

- i) Method D2460-97 or D2460-07; or
ii) Method D3454-97 or D3454-05;

- B) New York Radium Method;

- C) Standard Methods.

- i) Method 304, 13th ed.;
ii) Method 305, 13th ed.;
iii) Method 7500-Ra B, 17th, 18th, 19th, 20th, or 21st ed.; or
iv) Method 7500-Ra C, 17th, 18th, 19th, 20th, or 21st ed.;

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entries for radium-226 in the table at corresponding 40 CFR 141.25(a) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 7500-Ra B and C (as approved in 2000). The Board has instead cited to the~~

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~~21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 7500-Ra that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 7500-Ra B and C from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- D) ~~EML Procedures~~ USDOE Manual (27th or 28th ed.); Method Ra-04;
- E) USEPA Interim Radiochemical Methods: pages 13-~~15 or and 16-~~ 23;
- F) USEPA Radioactivity Methods; ~~Methods 903.0, 903.1;~~
- G) USEPA Radiochemical Analyses. ~~pages: page 19-32~~;
- H) USEPA Radiochemistry ~~Procedures, Method~~ Methods: Methods Ra-03 or, Ra-04; or
- I) USGS Methods.
- i) Method R-1140-76; or
- ii) Method R-1141-76.
- J) Georgia Radium Method.

BOARD NOTE: USEPA added Standard Methods, 21st ed., Methods 7500-Ra B and C as approved alternative methods for radium-226 in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616). USEPA added ASTM Methods D2460-07 and D3454-05 as approved alternative methods for radium-226 in appendix A to subpart C of 40 CFR 141 on June 8, 2010 (at 75 Fed. Reg. 32295).

- 4) Radium-228.

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- A) Standard Methods, 17th, 18th, 19th, 20th, or 21st ed.; ~~Method 7500-Ra D;~~

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for radium-228 by radiochemical in the table at corresponding 40 CFR 141.25(a) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 7500-Ra D (as approved in 2000). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 7500-Ra that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 7500-Ra D from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- B) New York Radium Method;
- C) USEPA Interim Radiochemical Methods, ~~pages: page 24-28;~~
- D) USEPA Radioactivity Methods; ~~Method 904.0;~~
- E) USEPA Radiochemical Analyses, ~~pages: page 19-32;~~
- F) USEPA Radiochemistry ~~Procedures, Methods:~~ Method Ra-05;
- G) USGS Methods; ~~Method R-1142-76;~~
- H) New Jersey Radium Method; or
- I) Georgia Radium Method.

BOARD NOTE: USEPA added Standard Methods, 21st ed., Method 7500-Ra D as an approved alternative method for radium-228 in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616).

- 5) Uranium.

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- A) Standard Methods, 17th, 18th, 19th, 20th, or 21st ed. ~~;~~ Method 7500-U C;

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entries for uranium by radiochemical and alpha spectrometry in the table at corresponding 40 CFR 141.25(a) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 7500-U C (as approved in 2000). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 7500-U that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 7500-U B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- B) Standard Methods, 20th ed. ~~;~~ Method 3125;

- C) ASTM Methods.

- i) Method D2907-97;
- ii) Method D3972-97 or D3972-02;
- iii) Method D5174-97, ~~or~~ D5174-02, ~~or~~ D5174-07; or
- iv) Method D5673-03 or Method 5673-05;

~~BOARD NOTE: USEPA added this method as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- D) USEPA Radioactivity Methods ~~;~~ Methods 908.0, 908.1;

- E) USEPA Environmental Metals Methods ~~;~~ Method 200.8 (rev. 5.3);

- F) USEPA Radiochemical Analyses, ~~pages: page~~ 33-48;

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- G) USEPA Radiochemistry ~~Procedures, Methods:~~ Method 00-07;
- H) ~~EML Procedures~~ ~~USDOE~~ Manual (27th or 28th ed.); Method U-02 or U-04; or
- I) USGS Methods.
- i) Method R-1180-76;
 - ii) Method R-1181-76; or
 - iii) Method R-1182-76.

BOARD NOTE: If uranium (U) is determined by mass, a conversion factor of 0.67 pCi/μg of uranium must be used. This conversion factor is based on the 1:1 activity ratio of ²³⁴U and ²³⁸U that is characteristic of naturally occurring uranium.

BOARD NOTE: USEPA added Standard Methods, 21st ed., Method 7500-U C and ASTM D5673-05 as approved alternative methods for uranium in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616). USEPA added ASTM Method D5174-07 as an approved alternative method for uranium in appendix A to subpart C of 40 CFR 141 on June 8, 2010 (at 75 Fed. Reg. 32295).

- 6) Radioactive Cesium.
- A) ASTM Methods.
- i) Method D2459-72; or
 - ii) Method D3649-91, ~~or~~ D3649-98a, or D3649-06;
- B) Standard Methods.
- i) Method 7120, 19th, 20th, or 21st ed.; or
 - ii) Method 7500-Cs B, 17th, 18th, 19th, 20th, or 21st ed.;

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~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entries for radioactive cesium in the table at corresponding 40 CFR 141.25(a) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 7120 (as approved in 1997) and Method 7500-Cs B (as approved in 2000). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the versions of Method 7120 and Method 7500-Cs that appear in that printed volume are those cited by USEPA as acceptable for use. USEPA later added Method 7120 and Method 7500-Cs B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- C) ~~EML Procedures USDOE Manual (27th or 28th ed.)~~; Method 4.5.2.3;
- D) USEPA Interim Radiochemical Methods, ~~pages:—page 4-5~~;
- E) USEPA Radioactivity Methods, ~~—~~ Methods 901.0, 901.1;
- F) USEPA Radiochemical Analyses, ~~pages:—page 92-95~~; or
- G) USGS Methods.
 - i) Method R-1110-76; or
 - ii) Method R-1111-76.

BOARD NOTE: USEPA added Standard Methods, 21st ed., Methods 7120 and 7500-Cs B as approved alternative methods for radioactive cesium in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616). USEPA added ASTM Method D3649-06 as an approved alternative method for radioactive cesium in appendix A to subpart C of 40 CFR 141 on June 8, 2010 (at 75 Fed. Reg. 32295).

- 7) Radioactive Iodine.

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- A) ASTM Methods.
- i) ~~D3649-91, or D3649-98a, or D3649-06;~~ or
 - ii) ~~D4785-93, or D4785-98, or D4785-08;~~
- B) Standard Methods.
- i) Method 7120, 19th, 20th, or 21st ed.;
 - ii) Method 7500-I B, 17th, 18th, 19th, 20th, or 21st ed.;
 - iii) Method 7500-I C, 17th, 18th, 19th, 20th, or 21st ed.; or
 - iv) Method 7500-I D, 17th, 18th, 19th, 20th, or 21st ed.;

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entries for radioactive iodine in the table at corresponding 40 CFR 141.25(a) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 7120 (as approved in 1997) and Method 7500-I B, C, and D (as approved in 2000). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the versions of Method 7120 and Method 7500-I that appear in that printed volume are those cited by USEPA as acceptable for use. USEPA later added Method 7500-I B, C, and D from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- C) ~~EML Procedures~~ USDOE Manual (27th or 28th ed.); Method 4.5.2.3;
- D) USEPA Interim Radiochemical Methods; ~~pages 6-8 or; 9-12;~~
- E) USEPA Radiochemical Analyses; ~~pages~~ page 92-95; or
- F) USEPA Radioactivity Methods; ~~Methods 901.1 or; 902.0.~~

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BOARD NOTE: USEPA added Standard Methods, 21st ed., Methods 7120 and 7500-I B, C, and D as approved alternative methods for radioactive iodine in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616). USEPA added ASTM Methods D3649-06 and D4785-08 as approved alternative methods for radioactive iodine in appendix A to subpart C of 40 CFR 141 on June 8, 2010 (at 75 Fed. Reg. 32295).

8) Radioactive Strontium-89 & 90.

A) Standard Methods.

- i) Method 303, 13th ed.; or
- ii) Method 7500-Sr B, 17th, 18th, 19th, 20th, or 21st ed.;

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for radioactive strontium in the table at corresponding 40 CFR 141.25(a) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 7500-Sr B (as approved in 2001). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 7500-Sr that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 7500-Sr B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

B) EML Procedures~~USDOE~~ Manual (27th or 28th ed.), Method Sr-01 or Sr-02.

- ~~i) Method Sr-01; or~~
- ~~ii) Method Sr-02;~~

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- C) USEPA Interim Radiochemical Methods, ~~pages:—page~~ 29-33;
- D) USEPA Radioactivity Methods, ~~—~~ Method 905.0;
- E) USEPA Radiochemical Analyses, ~~pages:—page~~ 65-73;
- F) USEPA Radiochemistry ~~Procedures, Methods:~~ Method Sr-04; or
- G) USGS Methods, ~~—~~ Method R-1160-76.

BOARD NOTE: USEPA added Standard Methods, 21st ed., Method 7500-Sr B as an approved alternative method for radioactive strontium in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616).

- 9) Tritium.
 - A) ASTM Methods: Method D4107-91, ~~—or~~ D4107-98, or D4107-08;
 - B) Standard Methods.
 - i) Method 306, 13th ed.; or
 - ii) Method 7500-³H B, 17th, 18th, 19th, 20th, or 21st ed.;

~~BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entry for tritium in the table at corresponding 40 CFR 141.25(a) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 7500-³H B (as approved in 2000). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 7500-³H that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA later added Method 7500-³H B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

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- C) USEPA Interim Radiochemical Methods, ~~pages:—page~~ 34-37;
- D) USEPA Radioactivity Methods, ~~—~~ Method 906.0;
- E) USEPA Radiochemical Analyses, ~~pages:—page~~ 87-91;
- F) USEPA Radiochemistry ~~Procedures, Methods:~~ Method H-02; or
- G) USGS Methods, ~~—~~ Method R-1171-76.

BOARD NOTE: USEPA added Standard Methods, 21st ed., Method 7500-³H B as an approved alternative method for tritium in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616). USEPA added ASTM Method D4107-08 as an approved alternative method for tritium in appendix A to subpart C of 40 CFR 141 on June 8, 2010 (at 75 Fed. Reg. 32295).

10) Gamma Emitters.

- A) ASTM Methods.
 - i) Method D3649-91, ~~—~~ D3649-98a, ~~—~~ D3649-06; or
 - ii) Method D4785-93, ~~—~~ D4785-00a, ~~—~~ D4785-08;
- B) Standard Methods.
 - i) Method 7120, 19th, 20th, or 21st ed.;
 - ii) Method 7500-Cs B, 17th, 18th, 19th, 20th, or 21st ed.; or
 - iii) Method 7500-I B, 17th, 18th, 19th, 20th, or 21st ed.;

BOARD NOTE: On March 12, 2007 (at 72 Fed. Reg. 11200), USEPA amended the entries for gamma emitters in the table at corresponding 40 CFR 141.25(a) to allow the use of Standard Methods Online (at www.standardmethods.org), Method 7120 (as approved in 1997), Method 7500-Cs B (as approved in 2000), and

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~~Method 7500-I B (as approved in 2000). The Board has instead cited to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the versions of Method 7120, Method 7500-Cs, and Method 7500-I that appear in that printed volume are those cited by USEPA as acceptable for use. USEPA later added Method 7150, Method 7500-Cs B, and Method 7500-I B from the 21st edition of Standard Methods as an approved alternative method in appendix A to subpart C of 40 CFR 141, added on June 3, 2008 (at 73 Fed. Reg. 31616).~~

- C) ~~EML Procedures~~ USDOE Manual (27th or 28th ed.); Method Ga-01-R;
- D) USEPA Radioactivity Methods; Methods 901.0, 901.1, or 902.0;
- E) USEPA Radiochemical Analyses. ~~pages: page 92-95;~~ or
- F) USGS Methods; Method R-1110-76.

BOARD NOTE: USEPA added Standard Methods, 21st ed., Methods 7120, 7500-Cs B, and 7500-I B as approved alternative methods for gamma emitters in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616). USEPA added ASTM Methods D3649-08 and D4785-08 as approved alternative methods for tritium in appendix A to subpart C of 40 CFR 141 on June 8, 2010 (at 75 Fed. Reg. 32295).

- b) When the identification and measurement of radionuclides other than those listed in subsection (a) of this Section are required, the following methods, incorporated by reference in Section 611.102, are to be used, except in cases where alternative methods have been approved in accordance with Section 611.480:
 - 1) "Procedures for Radiochemical Analysis of Nuclear Reactor Aqueous Solutions," available from NTIS.
 - 2) ~~EML Procedures~~ HASL Procedure Manual (27th or 28th ed.), HASL-300, available from USDOE, EMLERDA Health and Safety Laboratory.

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- c) For the purpose of monitoring radioactivity concentrations in drinking water, the required sensitivity of the radioanalysis is defined in terms of a detection limit. The detection limit must be that concentration which can be counted with a precision of plus or minus 100 percent at the 95 percent confidence level (1.96σ , where σ is the standard deviation of the net counting rate of the sample).

- 1) To determine compliance with Section 611.330(b), (c), and (e), the detection limit must not exceed the concentrations set forth in the following table:

Contaminant	Detection Limit
Gross alpha particle activity	3 pCi/ℓ
Radium-226	1 pCi/ℓ
Radium-228	1 pCi/ℓ
Uranium	1 µg/ℓ

BOARD NOTE: Derived from 40 CFR 141.25(c) Table B ~~(2009)(2007)~~.

- 2) To determine compliance with Section 611.330(d), the detection limits must not exceed the concentrations listed in the following table:

Radionuclide	Detection Limit
Tritium	1,000 pCi/ℓ
Strontium-89	10 pCi/ℓ
Strontium-90	2 pCi/ℓ
Iodine-131	1 pCi/ℓ
Cesium-134	10 pCi/ℓ
Gross beta	4 pCi/ℓ
Other radionuclides	1/10 of applicable limit

BOARD NOTE: Derived from 40 CFR 141.25(c) Table C ~~(2009)(2007)~~.

- d) To judge compliance with the MCLs listed in Section 611.330, averages of data must be used and must be rounded to the same number of significant figures as the MCL for the substance in question.

BOARD NOTE: Derived from 40 CFR 141.25 ~~(2007)~~ and appendix A to subpart C of 40 CFR 141 ~~(2010)~~, as added at 73 Fed. Reg. 31616 (June 3, 2008).

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(Source: Amended at 34 Ill. Reg. 19848, effective December 7, 2010)

SUBPART S: GROUNDWATER RULE

Section 611.802 Groundwater Source Microbial Monitoring and Analytical Methods

- a) Triggered source water monitoring.
 - 1) General requirements. A GWS supplier must conduct triggered source water monitoring if the following conditions exist:
 - A) The supplier does not provide at least 4-log treatment of viruses (using inactivation, removal, or an Agency-approved combination of 4-log virus inactivation and removal) before or at the first customer for each groundwater source; and
 - B) The supplier is notified that a sample collected pursuant to Section 611.521 is total coliform-positive, and the sample is not invalidated by the Agency pursuant to Section 611.523.
 - 2) Sampling requirements. A GWS supplier must collect, within 24 hours after notification of the total coliform-positive sample, at least one groundwater source sample from each groundwater source in use at the time the total coliform-positive sample was collected pursuant to Section 611.521, except as provided in subsection (a)(2)(B) of this Section.
 - A) The Agency may, by a SEP issued pursuant to Section 611.110, extend the 24-hour time limit on a case-by-case basis if it determines that the supplier cannot collect the groundwater source water sample within 24 hours due to circumstances beyond the supplier's control. In the case of an extension, the Agency must specify how much time the supplier has to collect the sample.
 - B) If approved by the Agency, a supplier with more than one groundwater source may meet the requirements of this subsection (a)(2) by sampling a representative groundwater source or sources. If directed by the Agency by a SEP issued pursuant to Section 611.110, the supplier must submit for Agency approval a triggered

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source water monitoring plan that identifies one or more groundwater sources that are representative of each monitoring site in the system's sample siting plan pursuant to Section 611.521 and that the system intends to use for representative sampling pursuant to this subsection (a).

- C) A GWS supplier that serves 1,000 or fewer people may use a repeat sample collected from a groundwater source to meet both the requirements of Section 611.522 and to satisfy the monitoring requirements of subsection (a)(2) of this Section for that groundwater source only if the Agency approves the use of E. coli as a fecal indicator for source water monitoring pursuant to this subsection (a) by a SEP issued pursuant to Section 611.110. If the repeat sample collected from the groundwater source is E.coli positive, the system must comply with subsection (a)(3) of this Section.
- 3) Additional requirements. If the Agency does not require corrective action pursuant to Section 611.803(a)(2) for a fecal indicator-positive source water sample collected pursuant to subsection (a)(2) of this Section that is not invalidated pursuant to subsection (d) of this Section, the system must collect five additional source water samples from the same source within 24 hours after being notified of the fecal indicator-positive sample.
 - 4) Consecutive and wholesale systems.
 - A) In addition to the other requirements of this subsection (a), a consecutive GWS supplier that has a total coliform-positive sample collected pursuant to Section 611.521 must notify the wholesale systems within 24 hours after being notified of the total coliform-positive sample.
 - B) In addition to the other requirements of this subsection (a), a wholesale GWS supplier must comply with the following requirements:
 - i) A wholesale GWS supplier that receives notice from a consecutive system it serves that a sample collected pursuant to Section 611.521 is total coliform-positive must,

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within 24 hours after being notified, collect a sample from its groundwater sources pursuant to subsection (a)(2) of this Section and analyze it for a fecal indicator pursuant to subsection (c) of this Section.

- ii) If the sample collected pursuant to subsection (a)(4)(B)(i) of this section is fecal indicator-positive, the wholesale GWS supplier must notify all consecutive systems served by that groundwater source of the fecal indicator source water positive within 24 hours of being notified of the groundwater source sample monitoring result and must meet the requirements of subsection (a)(3) of this Section.
- 5) Exceptions to the triggered source water monitoring requirements. A GWS supplier is not required to comply with the source water monitoring requirements of subsection (a) of this Section if either of the following conditions exists:
- A) The Agency determines, and documents in writing, by a SEP issued pursuant to Section 611.110, that the total coliform-positive sample collected pursuant to Section 611.521 is caused by a distribution system deficiency; or
 - B) The total coliform-positive sample collected pursuant to Section 611.521 is collected at a location that meets Agency criteria for distribution system conditions that will cause total coliform-positive samples.
- b) Assessment source water monitoring. If directed by the Agency by a SEP issued pursuant to Section 611.110, a GWS supplier must conduct assessment source water monitoring that meets Agency-determined requirements for such monitoring. A GWS supplier conducting assessment source water monitoring may use a triggered source water sample collected pursuant to subsection (a)(2) of this Section to meet the requirements of subsection (b) of this Section. Agency-determined assessment source water monitoring requirements may include the following:
- 1) Collection of a total of 12 groundwater source samples that represent each month the system provides groundwater to the public;

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- 2) Collection of samples from each well, unless the system obtains written Agency approval to conduct monitoring at one or more wells within the GWS that are representative of multiple wells used by that system and which draw water from the same hydrogeologic setting;
 - 3) Collection of a standard sample volume of at least 100 ml for fecal indicator analysis, regardless of the fecal indicator or analytical method used;
 - 4) Analysis of all groundwater source samples using one of the analytical methods listed in subsection (c)(2) of this Section for the presence of E. coli, enterococci, or coliphage;
 - 5) Collection of groundwater source samples at a location prior to any treatment of the groundwater source unless the Agency approves a sampling location after treatment; and
 - 6) Collection of groundwater source samples at the well itself, unless the system's configuration does not allow for sampling at the well itself and the Agency approves an alternate sampling location by a SEP issued pursuant to Section 611.110 that is representative of the water quality of that well.
- c) Analytical methods.
- 1) A GWS supplier subject to the source water monitoring requirements of subsection (a) of this Section must collect a standard sample volume of at least 100 ml for fecal indicator analysis, regardless of the fecal indicator or analytical method used.
 - 2) A GWS supplier must analyze all groundwater source samples collected pursuant to subsection (a) of this Section using one of the analytical methods listed in subsections (c)(2)(A) through (c)(2)(C) of this Section, or alternative methods approved by the Agency pursuant to Section 611.480, subject to the limitations of subsection (c)(2)(D) of this Section, for the presence of E. coli, enterococci, or coliphage:
 - A) E. coli:

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- i) Autoanalysis Colilert System, Standard Methods, 20th or 21st ed., Method 9223 B.
- ii) Colisure Test, Standard Methods, 20th or 21st ed., Method 9223 B.
- iii) Membrane Filter Method with MI Agar, USEPA Method 1604.
- iv) m-ColiBlue24 Test.
- v) E*Colite Test.
- vi) EC-MUG, Standard Methods, 20th ed., Method 9221 F.
- vii) NA-MUG, Standard Methods, 20th ed., Method 9222 G.
- viii) Colilert-18, Standard Methods, 20th or 21st ed., Method 9223 B~~9222 G~~.
- ix) [Readycult® 2007](#).
- x) [Modified Colitag™ Method](#).
- xi) [Chromocult® Method](#).

BOARD NOTE: EC-MUG (Standard Methods, Method 9221F) or NA-MUG (Standard Methods, Method 9222G) can be used for E. coli testing step, as described in Section 611.526(f)(1) or (f)(2)~~611.526(a) or (b)~~ after use of Standard Methods, Method 9221 B, 9221 D, 9222 B, or 9222 C. USEPA added Standard Methods, 21st ed., Method 9223 B as an approved alternative method for E. coli on June 3, 2008 (at 73 Fed. Reg. 31616). USEPA added Readycult® 2007, Modified Colitag™ Method, and Chromocult® Method as approved alternative methods for E. coli on June 8, 2010 (at 75 Fed. Reg. 32295). ~~On June 3, 2008 (at 73 Fed. Reg. 31616), USEPA added appendix A to subpart C of 40 CFR 141, which authorized alternative methods to those listed for E. coli by Colilert and Colisure and added Colilert-18 in the table at corresponding 40 CFR 141.402(c)(2) to~~

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~~allow the use of the 21st edition of Standard Methods for the Examination of Water and Wastewater and Standard Methods Online (at www.standardmethods.org), Method 9223 B (as approved in 1997). The Board has instead cited only to the 21st edition of Standard Methods for the Examination of Water and Wastewater (the printed version of Standard Methods), since the version of Method 9223 B that appears in that printed volume is that cited by USEPA as acceptable for use. USEPA also added the version of Method 9223 B that appears in the 20th edition of Standard Methods as to Colilert-18.~~

B) Enterococci:

- i) Multiple-Tube Technique, Standard Methods, 20th ed., Method 9230 B or Standard Methods Online, Method 9230 B-04.

~~BOARD NOTE: On June 3, 2008 (at 73 Fed. Reg. 31616), USEPA added appendix A to subpart C of 40 CFR 141, which authorized alternative methods to those listed for enterococci by multiple tube technique at corresponding 40 CFR 141.402(c)(2) to allow the use of the Standard Methods Online (at www.standardmethods.org), Method 9230 B (as approved in 2004).~~

- ii) Membrane Filter Technique, Standard Methods, 20th ed., Method 9230 C, and USEPA Method 1600.

BOARD NOTE: The holding time and temperature for groundwater samples are specified in subsection (c)(2)(D) of this Section, rather than as specified in Section 8 of USEPA Method 1600.

- iii) Enterolert.

BOARD NOTE: Medium is available through IDEXX Laboratories, Inc., at the address set forth in Section 611.102(b). Preparation and use of the medium must be as set forth in the article that embodies the method as incorporated by reference in Section 611.102(b).

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[BOARD NOTE: USEPA added Standard Methods Online, Method 9230 B-04 as an approved alternative method for enterococci on June 3, 2008 \(at 73 Fed. Reg. 31616\).](#)

- C) Coliphage:
 - i) Two-Step Enrichment Presence-Absence Procedure, USEPA Method 1601.
 - ii) Single Agar Layer Procedure, USEPA Method 1602.
 - D) Limitation on methods use. The time from sample collection to initiation of analysis may not exceed 30 hours. The GWS supplier is encouraged but is not required to hold samples below 10°C during transit.
- d) Invalidation of a fecal indicator-positive groundwater source sample.
- 1) A GWS supplier may obtain Agency invalidation of a fecal indicator-positive groundwater source sample collected pursuant to subsection (a) of this Section only under either of the following conditions:
 - A) The supplier provides the Agency with written notice from the laboratory that improper sample analysis occurred; or
 - B) The Agency determines and documents in writing by a SEP issued pursuant to Section 611.110 that there is substantial evidence that a fecal indicator-positive groundwater source sample is not related to source water quality.
 - 2) If the Agency invalidates a fecal indicator-positive groundwater source sample, the GWS supplier must collect another source water sample pursuant to subsection (a) of this Section within 24 hours after being notified by the Agency of its invalidation decision, and the supplier must have it analyzed for the same fecal indicator using the analytical methods in subsection (c) of this Section. The Agency may extend the 24-hour time limit on a case-by-case basis if the supplier cannot collect the source water sample within 24 hours due to circumstances beyond its control. In

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the case of an extension, the Agency must specify how much time the system has to collect the sample.

- e) Sampling location.
 - 1) Any groundwater source sample required pursuant to subsection (a) of this Section must be collected at a location prior to any treatment of the groundwater source unless the Agency approves a sampling location after treatment.
 - 2) If the supplier's system configuration does not allow for sampling at the well itself, it may collect a sample at an Agency-approved location to meet the requirements of subsection (a) of this Section if the sample is representative of the water quality of that well.
- f) New sources. If directed by the Agency by a SEP issued pursuant to Section 611.110, a GWS supplier that places a new groundwater source into service after November 30, 2009 must conduct assessment source water monitoring pursuant to subsection (b) of this Section. If directed by the SEP, the system must begin monitoring before the groundwater source is used to provide water to the public.
- g) Public Notification. A GWS supplier with a groundwater source sample collected pursuant to subsection (a) or (b) of this Section that is fecal indicator-positive and which is not invalidated pursuant to subsection (d) of this Section, including a consecutive system supplier served by the groundwater source, must conduct public notification pursuant to Section 611.902.
- h) Monitoring Violations. A failure to meet the requirements of subsections (a) through (f) of this Section is a monitoring violation that requires the GWS supplier to provide public notification pursuant to Section 611.904.

BOARD NOTE: Derived from 40 CFR 141.402 ~~(2007)~~ and appendix A to 40 CFR 141 ~~(2010)~~, as added at 73 Fed. Reg. 31616 (June 3, 2008).

(Source: Amended at 34 Ill. Reg. 19848, effective December 7, 2010)

SUBPART W: INITIAL DISTRIBUTION SYSTEM EVALUATIONS

Section 611.925 Subpart Y Compliance Monitoring Location Recommendations

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- a) A supplier's IDSE report must include its recommendations and justification for where and during what months it will conduct TTHM and HAA5 monitoring for Subpart Y of this Part. The supplier must base its recommendations on the criteria set forth in subsections (b) through (e) of this Section.
- b) The supplier must select the number of monitoring locations specified in the applicable of subsections (b)(1) through (b)(13) of this Section, subject to the limitations of subsections (b)(14) and (b)(15) of this Section. The supplier will use these recommended locations as Subpart Y routine compliance monitoring locations, unless the Agency requires different or additional locations. The supplier should distribute locations throughout the distribution system to the extent possible.
 - 1) A Subpart B system supplier that serves fewer than 500 persons must annually collect samples from two monitoring locations: one sample from the highest TTHM location and one sample from the highest HAA5 location.
 - 2) A Subpart B system supplier that serves 500 to 3,300 persons must quarterly collect samples from two monitoring locations: one sample from the highest TTHM location and one sample from the highest HAA5 location.
 - 3) A Subpart B system supplier that serves 3,301 to 9,999 persons must quarterly collect samples from two monitoring locations: one sample from the highest TTHM location and one sample from the highest HAA5 location.
 - 4) A Subpart B system supplier that serves 10,000 to 49,999 persons must quarterly collect samples from four monitoring locations: two samples from the highest TTHM locations, one sample from the highest HAA5 location, and one sample from an existing Subpart I compliance location.
 - 5) A Subpart B system supplier that serves 50,000 to 249,999 persons must quarterly collect samples from eight monitoring locations: three samples from the highest TTHM location, three samples from the highest HAA5 locations, and two samples from existing Subpart I compliance locations.

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- 6) A Subpart B system supplier that serves 250,000 to 999,999 persons must quarterly collect samples from 12 monitoring locations: five samples from the highest TTHM location, four samples from the highest HAA5 locations, and three samples from existing Subpart I compliance locations.
- 7) A Subpart B system supplier that serves 1,000,000 to 4,999,999 persons must quarterly collect samples from 16 monitoring locations: six samples from the highest TTHM location, six samples from the highest HAA5 locations, and four samples from existing Subpart I compliance locations.
- 8) A Subpart B system supplier that serves more than 5,000,000 persons must quarterly collect samples from 20 monitoring locations: eight samples from the highest TTHM location, seven samples from the highest HAA5 locations, and five samples from existing Subpart I compliance locations.
- 9) A groundwater system supplier that serves fewer than 500 persons must annually collect samples from two monitoring locations: one sample from the highest TTHM location and one sample from the highest HAA5 location.
- 10) A groundwater system supplier that serves 500 to 9,999 persons must annually collect samples from two monitoring locations: one sample from the highest TTHM location and one sample from the highest HAA5 location.
- 11) A groundwater system supplier that serves 10,000 to 99,999 persons must quarterly collect samples from four monitoring locations: two samples from the highest TTHM locations, one sample from the highest HAA5 location, and one sample from an existing Subpart I compliance location.
- 12) A groundwater system supplier that serves 100,000 to 499,999 persons must quarterly collect samples from six monitoring locations: three samples from the highest TTHM locations, two samples from the highest HAA5 locations, and one sample from an existing Subpart I compliance location.
- 13) A groundwater system supplier that serves more than 500,000 persons must quarterly collect samples from eight monitoring locations: three

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samples from the highest TTHM locations, three samples from the highest HAA5 locations, and two samples from existing Subpart I compliance locations.

- 14) The supplier must monitor during the month of highest DBP concentrations.
 - 15) A supplier on quarterly monitoring must take dual sample sets every 90 days at each monitoring location, except for a Subpart B system supplier that serves 500 to 3,300 persons. A groundwater system supplier that serves 500 to 9,999 persons which is on annual monitoring must take dual sample sets at each monitoring location. Any other supplier that is on annual monitoring or which is ~~and~~ a Subpart B system supplier that serves 500 to 3,300 persons is required to take individual TTHM and HAA5 samples (instead of a dual sample set) at the locations with the highest TTHM and HAA5 concentrations, respectively. For a supplier that serves fewer than 500 people, only ~~Only~~ one location with a dual sample set per monitoring period is needed if the highest TTHM and HAA5 concentrations occur at the same location and month, ~~if monitored annually.~~
- c) The supplier must recommend Subpart Y compliance monitoring locations based on standard monitoring results, system-specific study results, and Subpart I compliance monitoring results. The supplier must follow the protocol in subsections (c)(1) through (c)(8) of this Section. If required to monitor at more than eight locations, the supplier must repeat the protocol as necessary. If the supplier does not have existing Subpart I compliance monitoring results or if the supplier does not have enough existing Subpart I compliance monitoring results, the supplier must repeat the protocol, skipping the provisions of subsections (c)(3) and (c)(7) of this Section as necessary, until the supplier has identified the required total number of monitoring locations.
- 1) The location with the highest TTHM LRAA not previously selected as a Subpart Y monitoring location.
 - 2) The location with the highest HAA5 LRAA not previously selected as a Subpart Y monitoring location.

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- 3) The existing Subpart I average residence time compliance monitoring location (maximum residence time compliance monitoring location for a groundwater system) with the highest HAA5 LRAA not previously selected as a Subpart Y monitoring location.
 - 4) The location with the highest TTHM LRAA not previously selected as a Subpart Y monitoring location.
 - 5) The location with the highest TTHM LRAA not previously selected as a Subpart Y monitoring location.
 - 6) The location with the highest HAA5 LRAA not previously selected as a Subpart Y monitoring location.
 - 7) The existing Subpart I average residence time compliance monitoring location (maximum residence time compliance monitoring location for a groundwater system) with the highest TTHM LRAA not previously selected as a Subpart Y monitoring location.
 - 8) The location with the highest HAA5 LRAA not previously selected as a Subpart Y monitoring location.
- d) The supplier may recommend locations other than those specified in subsection (c) of this Section if the supplier includes a rationale for selecting other locations. If the Agency approves the alternative locations, the supplier must monitor at these locations to determine compliance under Subpart Y of this Part.
- e) The supplier's recommended schedule must include Subpart Y monitoring during the peak historical month for TTHM and HAA5 concentration, unless the Agency approves another month. Once the supplier has identified the peak historical month, and if the supplier is required to conduct routine monitoring at least quarterly, the supplier must schedule Subpart Y compliance monitoring at a regular frequency of every 90 or fewer days.

BOARD NOTE: Derived from 40 CFR 141.605 [\(2010\)](#)~~(2006)~~.

(Source: Amended at 34 Ill. Reg. 19848, effective December 7, 2010)

SUBPART Y: STAGE 2 DISINFECTION BYPRODUCTS REQUIREMENTS

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Section 611.971 Routine Monitoring

- a) Monitoring.
 - 1) If a supplier submitted an IDSE report, it must begin monitoring at the locations and during the months that the supplier has recommended in its IDSE report submitted pursuant to Section 611.925, following the schedule set forth in Section 611.970(c), unless the Agency, by a SEP issued pursuant to Section 611.110, requires other locations or additional locations after its review. If the supplier submitted a 40/30 certification pursuant to Section 611.923, it qualified for a very small system waiver pursuant to Section 611.924, or it is a NTNCWS that serves fewer than 10,000 persons, the supplier must monitor at the locations and on the dates identified in its monitoring plan as described in Section 611.382(f), updated as required by Section 611.972.
 - 2) The supplier must monitor at no fewer than the number of locations identified in the applicable of subsections (a)(2)(A) through (a)(2)(M) of this Section, subject to the limitations of subsections (a)(2)(N) and (a)(2)(O) of this Section.
 - A) A Subpart B system supplier that serves fewer than 500 persons must monitor annually at two distribution system monitoring locations during each monitoring period.
 - B) A Subpart B system supplier that serves 500 to 3,300 persons must monitor quarterly at two distribution system monitoring locations during each monitoring period.
 - C) A Subpart B system supplier that serves 3,301 to 9,999 persons must monitor quarterly at two distribution system monitoring locations during each monitoring period.
 - D) A Subpart B system supplier that serves 10,000 to 49,999 persons must monitor quarterly at four distribution system monitoring locations during each monitoring period.

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- E) A Subpart B system supplier that serves 50,000 to 249,999 persons must monitor quarterly at eight distribution system monitoring locations during each monitoring period.
- F) A Subpart B system supplier that serves 250,000 to 999,999 persons must monitor quarterly at 12 distribution system monitoring locations during each monitoring period.
- G) A Subpart B system supplier that serves 1,000,000 to 4,999,999 persons must monitor quarterly at 16 distribution system monitoring locations during each monitoring period.
- H) A Subpart B system supplier that serves 5,000,000 or more persons must monitor quarterly at 20 distribution system monitoring locations during each monitoring period.
- I) A groundwater system supplier that serves fewer than 500 persons must monitor annually at two distribution system monitoring locations during each monitoring period.
- J) A groundwater system supplier that serves 500 to 9,999 persons must monitor annually at two distribution system monitoring locations during each monitoring period.
- K) A groundwater system supplier that serves 10,000 to 99,999 persons must monitor quarterly at four distribution system monitoring locations during each monitoring period.
- L) A groundwater system supplier that serves 100,000 to 499,999 persons must monitor quarterly at six distribution system monitoring locations during each monitoring period.
- M) A groundwater system supplier that serves 500,000 or more persons must monitor quarterly at eight distribution system monitoring locations during each monitoring period.
- N) The supplier must monitor during month of highest DBP concentrations.

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- O) A supplier on quarterly monitoring must take dual sample sets every 90 days at each monitoring location, except for a Subpart B system supplier that serves 500 to 3,300. A groundwater system supplier that serves 500 to 9,999 persons which is on annual monitoring must take dual sample sets at each monitoring location. Any otherA supplier that is on annual monitoring or which is a Subpart B system supplier that serves 500 to 3,300 is required to take individual TTHM and HAA5 samples (instead of a dual sample set) at the locations with the highest TTHM and HAA5 concentrations, respectively. For a supplier that serves fewer than 500 people, only~~Only~~ one location with a dual sample set per monitoring period is needed if the highest TTHM and HAA5 concentrations occur at the same location ~~(and month, if monitored annually).~~
- 3) If a supplier is an undisinfected system that begins using a disinfectant other than UV light after the dates set forth in Subpart W of this Part for complying with the IDSE requirements, the supplier must consult with the Agency to identify compliance monitoring locations for this Subpart Y. The supplier must then develop a monitoring plan pursuant to Section 611.972 that includes those monitoring locations.
- b) Analytical methods. A supplier must use an approved method listed in Section 611.381 for TTHM and HAA5 analyses in this Subpart Y. Analyses must be conducted by laboratories that have received certification by USEPA or the Agency as specified in Section 611.381.

BOARD NOTE: Derived from 40 CFR 141.621 ~~(2010)(2006)~~.

(Source: Amended at 34 Ill. Reg. 19848, effective December 7, 2010)

SUBPART Z: ENHANCED TREATMENT FOR CRYPTOSPORIDIUM

Section 611.1004 Source Water Monitoring Requirements: Analytical Methods

- a) Cryptosporidium. A supplier must analyze for Cryptosporidium using USEPA OGWDW Methods, Method 1623 (05) or USEPA OGWDW Methods, Method 1622 (05), ~~or alternative methods approved by the Agency pursuant to Section~~

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~~611.480~~, each incorporated by reference in Section 611.102, or alternative methods approved by the Agency pursuant to Section 611.480.

- 1) The supplier must analyze at least a 10 ℓ sample or a packed pellet volume of at least 2 mℓ as generated by the methods listed in subsection (a) of this Section. A supplier unable to process a 10 ℓ sample must analyze as much sample volume as can be filtered by two filters approved by USEPA for the methods listed in subsection (a) of this Section, up to a packed pellet volume of at least 2 mℓ.
 - 2) Matrix spike (MS) samples.
 - A) MS samples, as required by the methods in subsection (a) of this Section, must be spiked and filtered by a laboratory approved for Cryptosporidium analysis pursuant to Section 611.1005.
 - B) If the volume of the MS sample is greater than 10 ℓ, the supplier may filter all but 10 ℓ of the MS sample in the field, and ship the filtered sample and the remaining 10 ℓ of source water to the laboratory. In this case, the laboratory must spike the remaining 10 ℓ of water and filter it through the filter used to collect the balance of the sample in the field.
 - 3) Flow cytometer-counted spiking suspensions must be used for MS samples and ongoing precision and recovery samples.
- b) E. coli. A supplier must use methods for enumeration of E. coli in source water approved in 40 CFR 136.3(a), ~~or alternative methods approved by the Agency pursuant to Section 611.480~~, incorporated by reference in Section 611.102, or alternative methods approved by the Agency pursuant to Section 611.480.
- 1) The time from sample collection to initiation of analysis may not exceed 30 hours, unless the supplier meets the condition of subsection (b)(2) of this Section.
 - 2) The Agency may, by a SEP issued pursuant to Section 611.110, approve on a case-by-case basis the holding of an E. coli sample for up to 48 hours between sample collection and initiation of analysis if it determines that analyzing an E. coli sample within 30 hours is not feasible. E. coli

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samples held between 30 to 48 hours must be analyzed by the Autoanalysis Colilert System reagent version of Standard Methods, 18th, 19th, or 20th ed., Method 9223 B, as listed in 40 CFR 136.3(a), incorporated by reference in Section 611.102.

- 3) A supplier must maintain the temperature of its samples between 0°C and 10°C during storage and transit to the laboratory.
- 4) The supplier may use the membrane filtration, two-step procedure described in Standard Methods, 20th ed., Method 9222 D and G, incorporated by reference in Section 611.102.

BOARD NOTE: On June 3, 2008 (at 73 Fed. Reg. 31616), USEPA added appendix A to subpart C of 40 CFR 141 ~~of 40 CFR 141~~, which authorized alternative methods to those listed for E. coli by multiple-tube technique at corresponding 40 CFR 141.402(c)(2) to allow the use of Standard Methods for the Examination of Water and Wastewater, 20th ed., Method 9222 D and G.

- c) Turbidity. A supplier must use methods for turbidity measurement approved in Section 611.531(a).

BOARD NOTE: Derived from 40 CFR 141.704 ~~(2007)~~ and appendix A to 40 CFR 141 ~~(2010)~~, as added at 73 Fed. Reg. 31616 (June 3, 2008).

(Source: Amended at 34 Ill. Reg. 19848, effective December 7, 2010)

SUBPART AA: AIRCRAFT DRINKING WATER RULE

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Section 611.APPENDIX F Mandatory Lead Public Education Information for Non-Transient Non-Community Water Systems

1) INTRODUCTION

The United States Environmental Protection Agency (USEPA) and (insert name of water supplier) are concerned about lead in your drinking water. Some drinking water samples taken from this facility have lead levels above the USEPA action level of 15 parts per billion (ppb), or 0.015 milligrams of lead per liter of water (mg/l). Under Federal law we are required to have a program in place to minimize lead in your drinking water by (insert date when corrosion control will be completed for your system). This program includes corrosion control treatment, source water treatment, and public education. We are also required to replace the portion of each lead service line that we own if the line contributes lead concentrations of more than 15 ppb after we have completed the comprehensive treatment program. If you have any questions about how we are carrying out the requirements of the lead regulation please give us a call at (insert water system's phone number). This brochure explains the simple steps you can take to protect you and your family by reducing your exposure to lead in drinking water.

2) HEALTH EFFECTS OF LEAD

Lead is found throughout the environment in lead-based paint; air; soil; household dust; food; certain types of pottery, porcelain, and pewter; and water. Lead can pose a significant risk to your health if too much of it enters your body. Lead builds up in the body over many years and can cause damage to the brain, red blood cells, and kidneys. The greatest risk is to young children and pregnant women. Amounts of lead that won't hurt adults can slow down normal mental and physical development of growing bodies. In addition, a child at play often comes into contact with sources of lead contamination – like dirt and dust – that rarely affect an adult. It is important to wash children's hands and toys often, and to try to make sure they only put food in their mouths.

3) LEAD IN DRINKING WATER

- A) Lead in drinking water, although rarely the sole cause of lead poisoning, can significantly increase a person's total lead exposure, particularly the exposure of infants who drink baby formulas and concentrated juices that are mixed with water. The EPA estimates that drinking water can make up 20 percent or more of a person's total exposure to lead.
- B) Lead is unusual among drinking water contaminants in that it seldom occurs

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naturally in water supplies like rivers and lakes. Lead enters drinking water primarily as a result of the corrosion, or wearing away, of materials containing lead in the water distribution system and household plumbing. These materials include lead-based solder used to join copper pipe, brass, and chrome plated brass faucets, and in some cases, pipes made of lead that connect houses and buildings to the water main (service lines). In 1986, Congress banned the use of lead solder containing greater than 0.2% lead, and restricted the lead content of faucets, pipes, and other plumbing materials to 8.0%.

- C) When water stands in lead pipes or plumbing systems containing lead for several hours or more, the lead may dissolve into your drinking water. This means the first water drawn from the tap in the morning, or later in the afternoon after returning from work or school, can contain fairly high levels of lead.

4) STEPS YOU CAN TAKE TO REDUCE EXPOSURE TO LEAD IN DRINKING WATER

- A) Let the water run from the tap before using it for drinking or cooking any time the water in a faucet has gone unused for more than six hours. The longer water resides in plumbing the more lead it may contain. Flushing the tap means running the cold water faucet until the water gets noticeably colder, usually about 15-30 seconds. Although toilet flushing or showering flushes water through a portion of the plumbing system, you still need to flush the water in each faucet before using it for drinking or cooking. Flushing tap water is a simple and inexpensive measure you can take to protect your family's health. It usually uses less than one gallon.
- B) Do not cook with or drink water from the hot water tap. Hot water can dissolve more lead more quickly than cold water. If you need hot water, draw water from the cold tap and heat it.
- C) The steps described above will reduce the lead concentrations in your drinking water. However, if you are still concerned, you may wish to use bottled water for drinking and cooking.
- D) You can consult a variety of sources for additional information. Your family doctor or pediatrician can perform a blood test for lead and provide you with information about the health effects of lead. State and local government agencies that can be contacted include the following:

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- i) (Insert the name or title of facility official if appropriate) at (insert phone number) can provide you with information about your facility's water supply; and
- ii) The Illinois Department of Public Health at 217-782-4977 or 312-814-2608 or the (insert the name of the city or county health department) at (insert phone number) can provide you with information about the health effects of lead.

BOARD NOTE: Derived from 40 CFR 141.85(a)(2) ~~(2009)(2002)~~. The Department of Public Health (Department) regulates non-community water supplies, including non-transient, non-community water supplies. The Department has incorporated this Part into its regulations at 77 Ill. Adm. Code 900.15(a)(2)(A) and 900.20(k)(2). Thus, the Board has included the notice language of 40 CFR 141.85(a)(2) ~~in~~ this Section for the purposes of facilitating federal review and authorization of the Illinois drinking water regulations.

(Source: Amended at 35 Ill. Reg. 19848, effective December 7, 2010)

DEPARTMENT OF PUBLIC HEALTH

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- 1) Heading of the Part: Loan Repayment Assistance for Dentists
- 2) Code Citation: 77 Ill. Adm. Code 580
- 3)

<u>Section Numbers</u> :	<u>Adopted Action</u> :
580.100	New
580.110	New
580.200	New
580.210	New
580.220	New
580.230	New
- 4) Statutory Authority: Loan Repayment Assistance for Dentists Act [110 ILCS 948]
- 5) Effective Date of Rulemaking: December 9, 2010
- 6) Does this rulemaking contain an automatic repeal date? No
- 7) Does this rulemaking contain incorporations by reference? No
- 8) A copy of the adopted amendments, including any material incorporated by reference, is on file in the agency's principal office and is available for public inspection.
- 9) Notice of Proposed Amendments Published in Illinois Register: July 23, 2010; 34 Ill. Reg. 10488
- 10) Has JCAR issued a Statement of Objection to this rulemaking? No
- 11) Differences between proposal and final version: No changes were made to the proposed rulemaking during the first notice period.

The following change was made in response to comments and suggestions of JCAR:

Section 580.220(e): changed "a designated shortage area" to "an HPSA"
- 12) Have all the changes agreed upon by the agency and JCAR been made as indicated in the agreements issued by JCAR? Yes
- 13) Will this rulemaking replace any emergency rulemaking currently in effect? No

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- 14) Are there any amendments pending on this Part? No
- 15) Summary and Purpose of Rulemaking: Part 580 was promulgated to administer the Loan Repayment Assistance for Dentists Act [110 ILCS 948]. This Part provides educational loan repayment assistance to dentists, dental specialists and dental hygienists to help increase the number of individuals practicing in designated shortage areas. The new rules clarify that applicants receiving educational loan repayment assistance with federal funds are ineligible for assistance from this program. In addition, the Act was amended by Public Act 96-757. These amendments include a definition for dental hygienist and stipulate that this professional is eligible for loan repayment assistance.
- 16) Information and questions regarding these adopted amendments shall be directed to:

Susan Meister
Division of Legal Services
Department of Public Health
535 West Jefferson, 5th Floor
Springfield, Illinois 62761

217/782-2043
e-mail: dph.rules@illinois.gov

The full text of the Adopted Amendments begins on the next page:

DEPARTMENT OF PUBLIC HEALTH

NOTICE OF ADOPTED AMENDMENTS

TITLE 77: PUBLIC HEALTH
CHAPTER I: DEPARTMENT OF PUBLIC HEALTH
SUBCHAPTER g: GRANTS TO DENTAL AND MEDICAL STUDENTSPART 580
LOAN REPAYMENT ASSISTANCE FOR DENTISTS

SUBPART A: GENERAL PROVISIONS

Section	
580.100	Definitions
580.110	Incorporated and Referenced Materials

SUBPART B: EDUCATIONAL LOAN REPAYMENT APPLICATION,
ELIGIBILITY AND PROGRAM REQUIREMENTS

Section	
580.200	Application
580.210	Eligibility
580.220	Grant Awards
580.230	Grant Terms and Obligations
580.240	Penalty for Failure to Fulfill Obligation

AUTHORITY: Implementing and authorized by the Loan Repayment Assistance for Dentists Act [110 ILCS 948].

SOURCE: Adopted at 33 Ill. Reg. 7166, effective May 14, 2009; amended at 34 Ill. Reg. 20105, effective December 9, 2010.

SUBPART A: GENERAL PROVISIONS

Section 580.100 Definitions

"Act" means the Loan Repayment Assistance for Dentists Act [110 ILCS 948].

"Applicant" means a person who submits an application to the Department to receive a dental loan assistance grant.

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"Dental Hygienist" means a person who holds a dental hygienist license under the Illinois Dental Practice Act to perform dental services as authorized by Section 18 of the Illinois Dental Practice Act (Section 10 of the Act).

"Dental Payments" means compensation provided to dentists and dental specialists for services rendered under Article V of the Illinois Public Aid Code [305 ILCS 5/Art. V], the Covering ALL KIDS Health Insurance Act [215 ILCS 170], or the Children's Health Program Insurance Act [215 ILCS 106] administered by the Illinois Department of Healthcare and Family Services (HFS). (Section 10 of the Act)

"Dental Specialist" means a person who has received a license as a dentist in this State and who is trained and qualified to practice in one or more of the following specialties of dentistry: endodontics, oral and maxillofacial surgery, orthodontics, pedodontics, periodontics, and prosthodontics. (Section 10 of the Act)

"Dentist" means a person who has received a general license pursuant to Section 11(a) of the Illinois Dental Practice Act [225 ILCS 25/11(a)], who may perform any intraoral and extraoral procedure required in the practice of dentistry, and to whom are reserved the responsibilities specified in Section 17 of the Illinois Dental Practice Act. (Section 10 of the Act)

"Department" means the Department of Public Health. (Section 10 of the Act)

"Designated Shortage Area" means a dental Health Professional Shortage Area (HPSA) as defined by the United States Department of Health and Human Services (Designation of Health Professional Shortage Areas (42 CFR 5, 51c) and the Public Health Service Act (42 USC 216, 254c)) or as otherwise designated by the Department of Public Health. (Section 10 of the Act)

"Educational Loans" means higher education student loans that a person has incurred in attending a registered professional dental education program ~~in this State~~. (Section 10 of the Act)

"Full-Time Practice" means a dental practice with a 40-hour work week where at least 32 hours of the 40 hours per week are spent providing clinical services. These services shall be conducted during normally scheduled clinic hours in the ambulatory care setting offices ~~specified in the contract~~. The remaining hours shall be spent providing inpatient care and/or in practice-related administrative

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activities. The 40 hours per week may be compressed into no fewer than four days per week, with no more than 12 hours of work to be performed in any 24-hour period. Time spent in "on-call" status will not count toward the 40-hour week. Hours worked over the required 40 hours per week will not be applied to any other work week.

"Grantee" refers to a person who is the recipient of a grant for educational loan repayment assistance under the Act and this Part.

"Health Professional Shortage Area" or "HPSA" means a designation provided by the U.S. Department of Health and Human Services, Health Resources and Services Administration. The HPSA designation indicates the shortage of primary medical care, dental or mental health providers. The designation may be geographic (a county or service area), demographic (low income population) or institutional (comprehensive health center, federally qualified health center or other public facility). HPSA designations can be found at <http://hpsafind.hrsa.gov/>

"HPSA Score" refers to the HPSA shortage severity score calculated by the United States Department of Health and Human Services, Bureau of Health Professionals when an HPSA is federally designated. This severity score provides a relative number of the amount of dental shortage in a geographic area.

"Low Income Person" refers to a person whose income is at or below the 200% poverty level as determined by the most recent U.S. Census Bureau's decennial census information.

"Low Income Patients" refers to the patients in the dental practice whose income is at or below the 200% poverty level as determined by the most recent U.S. Census Bureau's decennial census information.

"Medical Assistance" means services for medical and dental assistance provided under Article V of the Illinois Public Aid Code.

"Medical Assistance Reimbursement Documentation" refers to the documentation of medical assistance reimbursement dollars that dentists receive from the Illinois Department of Healthcare and Family Services for dental services provided to medical assistance recipients. The Department of Healthcare and Family Services periodically provides this data to the Department.

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"Metropolitan Statistical Area" means one or more adjacent counties that have at least one urban core area of at least 50,000 in population, plus adjacent territory that has a high degree of social and economic integration with the core as measured by commuting ties.

"Program" means the educational loan repayment assistance program for dentists and dental specialists or dental hygienists established by the Department under the Act. (Section 10 of the Act)

"Registered Professional Dental Education Program" means a dental school ~~located in Illinois and~~ accredited by the American Dental Association Commission on Dental Accreditation (CODA).

"Rural" means any geographic area not located in a U.S. Census Bureau Metropolitan Statistical Area; or a county located within a Metropolitan Statistical Area but having a population of 60,000 or less; or a geographic area located within a Metropolitan Statistical Area but having a population of 2,500 or less.

"Service Area" refers to the geographic area of the HPSA.

"Service Term" refers to the length of time that the dentist, dental hygienist or dental specialist will receive loan repayment funds from the Department while serving a dental HPSA.

"Urban" means any geographic area that does not meet the rural geographic area definition in this Part.

(Source: Amended at 34 Ill. Reg. 20105, effective December 9, 2010)

Section 580.110 Incorporated and Referenced Materials

- a) The following Illinois statutes are referenced in this Part:
 - 1) Loan Repayment Assistance for Dentists Act [110 ILCS 948]
 - 2) Illinois Public Aid Code [305 ILCS 5]
 - 3) Illinois Dental Practice Act [225 ILCS 25]

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4) Children's Health Insurance Program Act [215 ILCS 106]

5) Covering ALL KIDS Health Insurance Act [215 ILCS 170]

b) The following federal ~~statute is~~~~statutes are~~ referenced in this Part:

Public Health Service Act [42 USC 216, 254b and 254e]

c) The following federal ~~regulation is~~~~regulations are~~ incorporated in this Part:

Designation of Health Professional Shortage Areas (42 CFR 5, 51c) (October 1, 2007)

d) Incorporations by reference of federal regulations refer to the regulations on the date specified and do not include any later amendments or editions.

(Source: Amended at 34 Ill. Reg. 20105, effective December 9, 2010)

SUBPART B: EDUCATIONAL LOAN REPAYMENT APPLICATION,
ELIGIBILITY AND PROGRAM REQUIREMENTS

Section 580.200 Application

- a) *The Department shall, each year, consider 4 applications for assistance under the program.* (Section 20 of the Act) The Department will review all applications received.
- b) Applicants shall complete an application on forms available from the Department. The applicant shall indicate the location of the dental practice in a designated shortage area where service will be performed.
- c) Applicants shall document currently existing educational loan indebtedness to a governmental or commercial lending institution incurred for educational expenses in pursuit of the applicant's dental or dental hygienist degree ~~in Illinois~~. The documentation of indebtedness shall include a photocopy or original copy of promissory notes or other evidence of indebtedness with disclosure of the lending institution or agency, loan amount, loan period, and interest rate.

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- d) Applicants shall demonstrate that the applicant meets all eligibility criteria in Section 580.210.

(Source: Amended at 34 Ill. Reg. 20105, effective December 9, 2010)

Section 580.210 Eligibility

- a) Individuals who receive educational loan repayment assistance with federal funds are ineligible for assistance from this program.
- b) *To be eligible for assistance under the program, an applicant must meet all of the following qualifications: ~~(Section 25 of the Act)~~*
- 1)a) *He or she must be a citizen or permanent resident of the United States.*
- 2)b) *He or she must be a resident of this State.*
- 3)e) *He or she must be practicing full time in this State as a dentist, ~~or~~ dental specialist, or dental hygienist.*
- 4)d) *He or she must currently be repaying educational loans.*
- 5)e) *He or she must accept dental payments as defined in the Act.*
- 6)f) *He or she must ~~continue full time practice~~ or commit to practice full time in this State in a designated shortage area ~~for 2 years.~~ ~~(Section 25 of the Act)~~*
- 7) *He or she must allocate at least 20% of all patient appointments to patients covered by Article V of the Illinois Public Aid Code, the Covering ALL KIDS Health Insurance Act, or the Children's Health Insurance Program Act. (Section 25 of the Act)*

(Source: Amended at 34 Ill. Reg. 20105, effective December 9, 2010)

Section 580.220 Grant Awards

- a) *For each year that a qualified applicant who is selected as a recipient practices full time in this State in a designated shortage area as a dentist or dental*

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specialist, the Department shall, subject to appropriation, award a grant to that person in an amount equal to the amount in educational loans that the person must repay that year. However, the total amount in grants that a person may be awarded under the program must not exceed \$25,000 per year for a 4-year period. The Department shall require recipients to use the grants to pay off their educational loans. (Section 30 of the Act)

- b) *The initial grant awarded to a dentist or dental specialist under the Act shall be for a 2-year period. Based on the successful completion of the initial 2-year grant, the grantees may be awarded up to 2 subsequent one-year grants. Grantees are eligible to receive grant funds for no more than a 4-year period. Previous grant recipients shall be given priority for years 3 and 4 grant funding, provided that the grantee continues to meet the eligibility requirements set forth in Section 25 of the Act. Grantees shall practice full time in a designated shortage area for the period of each grant awarded. (Section 30(c) of the Act)*
- c) *The Department shall award grants to otherwise eligible dental applicants by using the following criteria:*
- 1) *Dental specialist willing to practice in any designated shortage area.*
 - 2) *Dentist willing to practice in a designated shortage area with the highest Health Professional Shortage Area (HPSA) score.*
 - 3) *Dentist willing to practice in a designated shortage area with the highest HPSA score and agreeing to allocate the highest percentage of patient appointments to those that are covered by Article V of the Illinois Public Aid Code, the Covering ALL KIDS Health Insurance Act, or the Children's Health Insurance Program Act. (Section 30(e) of the Act)*
- d) *Grants will be awarded in the order listed in subsection (c) of this Section. Dental specialists shall be the first group to receive funding. Once dental specialists are funded (or if no dental specialists apply) and if remaining funds allow, dentists will receive funding who fulfill the requirements of subsection (c)(2) of this Section. If there are more dentists applying for assistance than available funds, the Department shall award funding to dentists who fulfill the requirements of subsection (c)(3) of this Section.*

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- e) For each year that a qualified applicant who is selected as a recipient practices full time in this State in an HPSA as a dental hygienist, the Department shall, subject to appropriation, award a grant to that person in an amount equal to the amount in educational loans that the person must repay that year. However, the total amount in grants that a dental hygienist may be awarded under the program must not exceed \$25,000 per year for a two-year period. The Department shall require a recipient to use the grants to pay off his or her educational loans. (Section 30(c) of the Act)
- f)b) Payments ~~shall~~ **must** be used for the repayment of educational loans, including principal, interest and related expenses of government and commercial loans, received by the individual and used for tuition expenses while attending a registered professional dental education program ~~in this State~~.
- e) ~~When qualified applicants are available in both the dentists and dental specialists groups, the Department will award at least one grant to an individual in each group. Applicants will be selected with the following scoring system:~~
- 1) ~~All eligible applications will be divided into two groups:~~
 - A) ~~Dentists~~
 - B) ~~Dental Specialists~~
 - 2) ~~Applicants in each group will be ranked by HPSA score from highest need to lowest need with highest need being awarded first.~~
 - 3) ~~When qualified applicants are available, 50 percent of awards in each group will be made to urban dentists or dental specialists and 50 percent to rural dentists or dental specialists. When there are fewer than four eligible applications, the highest HPSA score not awarded from all groups will be the award recipient.~~
- g)d) The Department will accept applications for funding between July 1 and September 30 of each year, ~~except for 2009 when applications will be accepted between May 15 and June 1 and awarded by June 25~~. If enough eligible applications are received, all awards will be made. However, if funds remain available, subsequent applications will be evaluated individually as received.

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~~h)~~e) Payments shall be made on a quarterly basis to grant recipients following the completion of each three-month period of compliance with the terms of the grant agreement.

(Source: Amended at 34 Ill. Reg. 20105, effective December 9, 2010)

Section 580.230 Grant Terms and Obligations

- a) Each dentist, ~~or~~ dental specialist, or dental hygienist selected for educational loan repayment shall enter into a written grant agreement with the Department.
- b) Grantees shall complete ~~two years of~~ service in the HPSA underserved area designated in their application. Grantees who wish to move their practice from the location described in the ~~grantee's~~ recipient's original application and retain status as a recipient shall receive written approval from the Department prior to relocating and shall relocate to an area that qualifies for the same or a higher HPSA score.
- c) Mandatory reporting requirements every six months include:
 - 1) The grantee shall provide documentation of the percentage of low income patients served in his or her practice. Medical assistance reimbursement documentation and practice documentation will be accepted for this purpose.
 - 2) The grantee shall provide documentation that the amount of money paid for educational loan debt is greater than or equal to the amount of money paid by the Department under this program. Cancelled checks or documentation from the lending institution will be accepted for this purpose.
- d) For dentists and dental specialists, the grant program administered under this Part will allow for an initial two-year grant and two additional one-year grants. Grantees are eligible to receive grant funds for no more than a four-year period. Previous grantees shall receive priority for years three and four of grant funding, provided that:
 - 1) The grantee successfully completes the initial two-year grant; and

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- 2) The grantee continues to meet the eligibility requirements stipulated in Section 25 of the Act.
- e) The grant award for a dental hygienist shall be for a maximum of 2 years. (Section 30(c) of the Act)
- d) ~~The grant program administered under this Part will allow for an initial two-year grant and one additional two-year grant. Grant recipients will be given priority for the second two-year grant funding so long as they continue to meet the eligibility requirements described in Section 25 of the Act.~~

(Source: Amended at 34 Ill. Reg. 20105, effective December 9, 2010)

BOARD OF HIGHER EDUCATION

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- a) Part(s) (Heading and Code Citation): Collaborative Baccalaureate Degree Development Grant Program, 23 Ill. Adm. Code 1085
- 1) Rulemaking:
- A) Description: The Board plans to propose new rules to establish the framework for this new program to prevent any possible delays in implementation when a state appropriation of funds is made.
- B) Statutory Authority: Implementing Section 9.33 and authorized by Section 9.05 of the Board of Higher Education Act [110 ILCS 205/9.33 and 9.05].
- C) Scheduled meeting/hearing date: No meetings or hearings have been scheduled.
- D) Date agency anticipates First Notice: Undetermined.
- E) Effect on small businesses, small municipalities or not for profit corporations: None.
- F) Agency contact person for information:
- Karen Helland, Administrative Rules Coordinator
Illinois Board of Higher Education
431 East Adams Street, Second Floor
Springfield, IL 62701-1404
217/557-7358
- G) Related rulemakings and other pertinent information: None.
- b) Part(s) (Heading and Code Citation): Grow Your Own Teacher Education Act, 23 Ill. Adm. Code 1090
- 1) Rulemaking:
- A) Description: The Board proposes the adoption of new IBHE rules since this program was transferred from the State Board of Education to the Board on July 2, 2010. "All rules, standards,

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guidelines, and procedures adopted by the State Board of Education under this Act shall continue in effect as the rules, standards, guidelines, and procedures of the Board of Higher Education, until they are modified or abolished by the Board of Higher Education.” (110 ILCS 48/13)

- B) Statutory Authority: Section 13 of the Grow Your Own Teacher Education Act [110 ILCS 48]
 - C) Scheduled meeting/hearing date: No meetings or hearings have been scheduled.
 - D) Date agency anticipates First Notice: Undetermined.
 - E) Effect on small businesses, small municipalities or not for profit corporations: None.
 - F) Agency contact person for information:

Karen Helland, Administrative Rules Coordinator
Illinois Board of Higher Education
431 East Adams Street, Second Floor
Springfield, IL 62701-1404
217/557-7358
 - G) Related rulemakings and other pertinent information: None.
- c) Part(s) (Heading and Code Citation): Program Review (Private Colleges and Universities), 23 Ill. Adm. Code 1030
- 1) Rulemaking:
 - A) Description: The Board plans to conduct a review of the policies for the approval and authorization of institutions to operate and grant degrees. The scope of the review is limited to the transparency of review standards; the requirements of consumer information; and the cost of reviewing proposals. Findings of this review may necessitate proposed amendments to the rules.

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- B) Statutory Authority: Implementing and authorized by Section 9.05 of the Board of Higher Education Act [110 ILCS 205/9.05], Sections 14.5 and 14.10 of the Private College Act [110 ILCS 1005/14.5 and 14.10] and Sections 10.5 and 10.10 of the Academic Degree Act [110 ILCS 1010/10.5 and 10.10].
- C) Scheduled meeting/hearing date: No meetings or hearings have been scheduled.
- D) Date agency anticipates First Notice: Undetermined.
- E) Effect on small businesses, small municipalities or not for profit corporations: Undetermined.
- F) Agency contact person for information:

Karen Helland, Administrative Rules Coordinator
Illinois Board of Higher Education
431 East Adams Street, Second Floor
Springfield, IL 62701-1404
217/557-7358
- G) Related rulemakings and other pertinent information: None.

ENVIRONMENTAL PROTECTION AGENCY

JANUARY 2011 REGULATORY AGENDA

- a) Part (Heading and Code Citation): Environmental Laboratory Certification Fee Rules; 35 Ill. Adm. Code 185

1) Rulemaking:

- A) Description: This rulemaking will set forth the procedures the Agency will use to determine environmental laboratory assessments under Section 17.8 of the Environmental Protection Act.
- B) Statutory authority: Implementing and authorized by Section 17.8 of the Environmental Protection Act [415 ILCS 5/17.8].
- C) Scheduled meeting/hearing dates: The Agency has not yet scheduled meetings or hearings on this proposal.
- D) Date agency anticipates First Notice: Spring or Summer 2011
- E) Effect on small business, small municipalities or not-for-profit corporations: Any small business, small municipality, or not-for-profit corporation that requests certification for its laboratories.
- F) Agency contact person for information: Address written comments concerning the substance of the rulemaking as follows:

Stefanie Diers
Division of Legal Counsel
Environmental Protection Agency
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276
(217) 782-5544
stefanie.diers@illinois.gov

- G) Related rulemakings and other pertinent information: None

- b) Part (Heading and Code Citation): Construction Permit Application Fees For Air Pollution Sources; 35 Ill. Adm. Code 250

1) Rulemaking:

ENVIRONMENTAL PROTECTION AGENCY

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- A) Description: The proposed new rule will set forth the procedures the Agency will use to collect construction permit application fees for air pollution sources under Section 9.12 of the Environmental Protection Act including fees for sources which emit or will emit greenhouse gases.
- B) Statutory authority: Authorized by Section 9.12 of the Environmental Protection Act [415 ILCS 5/9.12].
- C) Scheduled meeting/hearing dates: The Agency has not yet scheduled meetings or hearings on this proposal.
- D) Date agency anticipates First Notice: Spring or Summer 2011
- E) Effect on small business, small municipalities or not-for-profit corporations: Any small businesses, small municipalities, or not-for-profit corporations that submit construction permit applications that trigger the fee provisions would be subject to the procedures set forth in this new rule.
- F) Agency contact person for information: Address written comments concerning the substance of the rulemaking as follows:

Annet Godiksen
Division of Legal Counsel
Illinois Environmental Protection Agency
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276
(217) 782-5544
annet.godiksen@illinois.gov

- G) Related rulemakings and other pertinent information: None
- c) Part (Heading and Code Citation): Procedures For Collection Of Air Pollution Site Fees;
35 Ill. Adm. Code 251
- 1) Rulemaking:

ENVIRONMENTAL PROTECTION AGENCY

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- A) Description: The proposed amendments will reflect a new fee schedule for existing pollutants and to add a fee for sources which emit greenhouse gases. In addition, the proposed amendments will make miscellaneous changes.
- B) Statutory authority: Authorized by Section 9.6 of the Environmental Protection Act [415 ILCS 5/9.6].
- C) Scheduled meeting/hearings dates: The Agency has not yet scheduled meetings or hearings on this proposal.
- D) Date agency anticipates First Notice: Spring or Summer 2011
- E) Effect on small business, small municipalities or not-for-profit corporations: Any small businesses, small municipalities, or not-for-profit corporations that must pay site fees would be subject to the modified applicability provisions.
- F) Agency contact person for information: Address written comments concerning the substance of the rulemaking as follows:

Charles E. Matoesian
Division of Legal Counsel
Illinois Environmental Protection Agency
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276
(217) 782-5544
charles.matoesian@illinois.gov

- G) Related rulemakings and other pertinent information: None
- d) Part (Headings and Code Citations): Annual Emission Reports; 35 Ill. Adm. Code 254

1) Rulemaking:

- A) Description: The proposal will amend 35 Ill. Adm. Code 254 to reflect the addition of greenhouse gas emissions to the list of items reported in annual emission reports.

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- B) Statutory authority: Implementing and authorized by Section 4(b) of the Environmental Protection Act [415 ILCS 5/4(b)].
- C) Scheduled meeting/hearing dates: The Agency has not yet scheduled meetings or hearings on this proposal.
- D) Date agency anticipates First Notice: Spring or Summer 2011
- E) Effect on small business, small municipalities, or not-for-profit corporations: Any small businesses, small municipalities, or not-for-profit corporations that file annual emission reports will be affected by the proposed amendments.
- F) Agency contact person for information: Address written comments concerning the substance of the rulemaking as follows:

Charles E. Matoesian
Division of Legal Counsel
Environmental Protection Agency
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276
(217) 782-5544
charles.matoesian@illinois.gov

- G) Related rulemakings and other pertinent information: None
- e) Part (Heading and Code Citation): Procedures For Collection Of Asbestos Fees; 35 Ill. Adm. Code 269
- 1) Rulemaking:
- A) Description: The proposed new rule will set forth the procedures the Agency will use to collect asbestos fees under Section 9.13 of the Environmental Protection Act.
- B) Statutory authority: Authorized by Section 9.13 of the Environmental Protection Act [415 ILCS 5/9.13].

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- C) Scheduled meeting/hearing dates: The Agency has not yet scheduled meetings or hearings on this proposal.
- D) Date agency anticipates First Notice: Spring or Summer 2011
- E) Effect on small business, small municipalities or not-for-profit corporations: Any small businesses, small municipalities, or not-for-profit corporations that must file an original 10-day notice of intent to renovate or demolish pursuant to 40 CFR 61.145(b) (part of the federal asbestos National Emission Standard for Hazardous Air Pollutants or NESHAP), would be subject to the procedures to set forth in this new rule.
- F) Agency contact person for information: Address written comments concerning the substance of the rulemaking as follows:

Annet Godiksen
Division of Legal Counsel
Illinois Environmental Protection Agency
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276
(217) 782-5544
annet.godiksen@illinois.gov

- G) Related rulemakings and other pertinent information: None
- f) Part (Heading and Code Citation): Clean Air Act Permit Program Procedures; 35 Ill. Adm. Code 270
- 1) Rulemaking:
- A) Description: The proposed rule will modify the current rule to address recent amendments to the Clean Air Act Permit Program (CAAPP) fee schedule and to reflect a new fee schedule for existing pollutants and to add a fee for sources which emit greenhouse gases. In addition, the proposed rule will make miscellaneous changes.

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- B) Statutory authority: Authorized by Section 39.5 of the Environmental Protection Act [415 ILCS 5/39.5].
- C) Scheduled meeting/hearing dates: The Agency has not yet scheduled meetings or hearings on this proposal.
- D) Date agency anticipates First Notice: Spring or Summer 2011
- E) Effect on small business, small municipalities or not-for-profit corporations: Any small businesses, small municipalities, or not-for-profit corporations that are subject to CAAPP fees would be subject to the proposed rule.
- F) Agency contact person for information: Address written comments concerning the substance of the rulemaking as follows:

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Illinois Environmental Protection Agency
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annet.godiksen@illinois.gov

- G) Related rulemakings and other pertinent information: None
- g) Part (Headings and Code Citations): Procedures to be Followed in the Performance of Inspections of Motor Vehicle Emissions; 35 Ill. Adm. Code 276
- 1) Rulemaking:
- A) Description: The regulations will be revised to reflect changes in relevant law and operational aspects of the underlying vehicle inspection and maintenance testing program.
- B) Statutory authority: Implementing and authorized by the Vehicle Emissions Inspection Law [625 ILCS 5/13(c)].

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- C) Scheduled meeting/hearing dates: The Agency has not yet scheduled meetings or hearings on this proposal.
- D) Date agency anticipates First Notice: Spring or Summer 2011
- E) Effect on small business, small municipalities, or not-for-profit corporation: This rulemaking may affect any small business, small municipality, or not-for-profit corporation that owns or operates a motor vehicle that is subject to enhanced I/M testing regulations.
- F) Agency contact person for information:
- Kent Mohr
Division of Legal Counsel
Illinois Environmental Protection Agency
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276
(217) 782-5544
kent.mohr@illinois.gov
- G) Related rulemakings and other pertinent information: None
- h) Parts (Headings and Code Citations): Procedures for Issuing Financial Assistance Awards Under the Illinois Nonpoint Source Pollution Control Grant Program; 35 Ill. Adm. Code 376
- 1) Rulemaking:
- A) Description: The proposed rule will set forth the procedures for soliciting applications for financial assistance, establishes the eligibility requirements for financial assistance and the criteria under which applications will be reviewed.
- B) Statutory authority: Authorized by Section 4 of the Environmental Protection Act [415 ILCS 5/4(k)]
- C) Scheduled meeting/hearing dates: The Agency has not yet scheduled meetings or hearings on this proposal.

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- D) Date agency anticipates First Notice: Spring or Summer 2011
- E) Effect on small business, small municipalities, or not-for-profit corporations: The rules will benefit these entities by creating procedures to enable these and other entities to obtain 319 grants for projects to control non-point source pollution.
- F) Agency contact person for information: Address written comments concerning the substance of the rulemaking as follows:

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stefanie.diers@illinois.gov

- G) Related rulemakings and other pertinent information: None
- i) Part (Heading and Code Citation): Amendment to Procedure for the Certification of Operators of Wastewater Treatment Works; 35 Ill. Adm. Code 380
- 1) Rulemaking:
- A) Description: Proposed amendments will modify the groupings of industrial wastewater treatment works and qualifications needed by Wastewater Operators.
- B) Statutory authority: Implementing and authorized by Section 11 and 27 of the Environmental Protection Act [415 ILCS 5/11 and 5/27].
- C) Scheduled meeting/hearing dates: The Agency has not yet scheduled meetings or hearings on this proposal.
- D) Date agency anticipates First Notice: Spring or Summer 2011

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- E) Effect on small business, small municipalities or not-for-profit corporations: Any small businesses, small municipalities, or not-for-profit corporations operating wastewater treatment works may be affected by the proposed amendments.
- F) Agency contact person for information: Address written comments concerning the substance of the rulemaking as follows:
- Stefanie Diers
Division of Legal Counsel
Environmental Protection Agency
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276
(217) 782-5544
stefanie.diers@illinois.gov
- G) Related rulemakings and other pertinent information: None
- j) Parts (Headings and Code Citations): Illinois Environmental Protection Agency Public Water Supplies, Technical Policy Statements; 35 Ill. Adm. Code 651 through 654
- 1) Rulemaking:
- A) Description: The amendments to these Agency rules will update definitions and explanations of administrative procedures and provide current information to owners, operators, and official custodians of public water supplies. More recent design and operational criteria will be incorporated to provide information necessary for the design, operation, and maintenance of public water supplies and to facilitate the permitting process. In addition, the amendments will exempt from restricted status certain public water supplies that exceed the combined radium standard, provided the supplies meet certain conditions.

The amendments to these Agency rules will also incorporate technical, financial, and managerial requirements for new public water supplies. The proposed amendments are required by the 1996 amendments to the federal Safe Drinking Water Act (SDWA). On May 22, 1998, the Illinois General Assembly passed SB 545 which, *inter alia*, amends Sections 15 and 18 of

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the Environmental Protection Act to require that new public water supplies have the technical, financial, and managerial capacity to meet federal and State drinking water regulations. The Governor signed this bill into law on August 14, 1998, as P.A. 90-0773.

- B) Statutory authority: Implementing and authorized by Sections 14 through 19 of the Illinois Environmental Protection Act [415 ILCS 5/14 through 5/19].
- C) Scheduled meeting/hearing dates: The Agency has not yet scheduled meetings or hearings on this proposal.
- D) Date agency anticipates First Notice: Spring or Summer 2011
- E) Effect on small business, small municipalities or not-for-profit corporations: These amendments will generally benefit small businesses, small municipalities, and not-for-profit entities by clarifying the requirements for operations and permits. There may be some additional reporting requirements. These amendments may also affect new small businesses, new small municipalities, and not-for-profit corporations in Illinois to the extent the affected entities own or operate a "public water supply" as defined by Section 3.28 of the Act, i.e., it has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year, or it is assisting a public water supply to demonstrate compliance.
- F) Agency contact person for information: Address written comments concerning the substance of the rulemaking as follows:

Stefanie Diers
Division of Legal Counsel
Illinois Environmental Protection Agency
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276
(217) 782-5544
stefanie.diers@illinois.gov

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- G) Related rulemakings and other pertinent information: The Agency is preparing a rulemaking proposal to establish the requirements that must be met by public water supplies that exceed the combined radium standard or the gross alpha particle activity standard, to avoid being placed on restrictive status.
- k) Part (Heading and Code Citation): Underground Storage Tank Fund Legacy Site Commitments; 35 Ill. Adm. Code 882
- 1) Rulemaking:
- A) Description: The proposed rules will set forth procedures for the commitment of money in the Underground Storage Tank Fund to the payment of corrective action costs for legacy sites pursuant to new Section 57.11(e) of the Environmental Protection Act.
- B) Statutory authority: Implementing and authorized by Section 57.11(e) of the Environmental Protection Act [415 ILCS 5/57.11(e)].
- C) Scheduled meeting/hearing dates: The Agency has not scheduled meeting or hearing dates on this proposal.
- D) Date Agency anticipates First Notice: Spring or Summer 2011
- E) Effect on small businesses, small municipalities or not-for-profit corporations: The rules will allow owners and operators of underground storage tanks with sites that meet the definition of "legacy site", as set forth in Section 57.11(e)(4) of the Environmental Protection Act, to obtain commitments of money in the Underground Storage Tank Fund for the payment of corrective action costs incurred in the cleanup of underground storage tank releases.
- F) Agency contact person for information: Address written comments concerning the substance of the rulemaking as follows:

Kyle Rominger
Division of Legal Counsel
Illinois Environmental Protection Agency
1021 North Grand Avenue East

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P.O. Box 19276
Springfield, IL 62794-9276
217-782-5544
kyle.rominger@illinois.gov

- G) Related Rulemaking and other pertinent information: None
- l) Part (Heading and Code Citation): Procedures For Issuing Loans From The Water Pollution Control Program for Non-Point Pollution Control Projects; New Part
- 1) Rulemaking:
- A) Description: This rulemaking will create procedures for eligible local government units, other governmental entities, non-governmental entities or any combination thereof, to obtain loans from the Water Pollution Control Loan Program for projects to control non-point sources of pollution.
- B) Statutory authority: The proposed rules implement Title IV-A: Water Pollution Control of the Illinois Environmental Protection Act [415 ILCS 5/19.1 through 5/19.8].
- C) Scheduled meeting/hearing date: The Agency has not yet scheduled meetings or hearings on this proposal.
- D) Date agency anticipates First Notice: Spring or Summer 2011
- E) Effect on small businesses, small municipalities or not-for-profit corporations: These rules will benefit these entities by creating procedures to enable these and other entities to obtain loans from the Water Pollution Control Loan Program for projects to control non-point sources of pollution.
- F) Agency contact person for information: Address written comments concerning the substance of the rulemaking as follows:

Stefanie Diers
Division of Legal Counsel
Illinois Environmental Protection Agency

ENVIRONMENTAL PROTECTION AGENCY

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1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276
(217) 782-5544
stefanie.diers@illinois.gov

G) Related rulemakings and other pertinent information: None

m) Part (Heading and Code Citation): New Part

1) Rulemaking:

- A) Description: The Illinois Environmental Protection Agency may propose rules governing the commitment of money in the Underground Storage Tank Fund to legacy sites pursuant to Section 57.11(e) of the Environmental Protection Act [415 ILCS 5/57.11(e)].
- B) Statutory authority: Section 57.11(e)(2) of the Environmental Protection Act [415 ILCS 5/57.11(e)(2)].
- C) Scheduled meeting/hearing date: The Agency has not yet scheduled meetings or hearings on this proposal.
- D) Date agency anticipates First Notice: Spring or Summer 2011
- E) Effect on small businesses, small municipalities or not-for-profit corporations: This rulemaking will affect small businesses, small municipalities, or not for profit corporations seeking to obtain a commitment of money in the Underground Storage Tank Fund to legacy sites pursuant to Section 57.11(e) of the Environmental Protection Act [415 ILCS 5/57.11(e)].
- F) Agency contact person for information: Address written comments concerning the substance of the rulemaking as follows:

Kyle Rominger
Division of Legal Counsel
Illinois Environmental Protection Agency
1021 North Grand Avenue East
P.O. Box 19276

ENVIRONMENTAL PROTECTION AGENCY

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Springfield, IL 62794-9276
217-782-5544
kyle.rominger@illinois.gov

- G) Related rulemakings and other pertinent information: None

HUMAN RIGHTS COMMISSION

JANUARY 2011 REGULATORY AGENDA

a) Part(s) (Heading and Code Citation): Procedural Rules (56 Ill. Adm. Code 5300).

1) Rulemaking:

- A) Description: Pursuant to P.A. 95-243, effective 01/01/08, P.A. 96-542, effective 01/01/10, and P.A. 96-876, effective 02-02-10 to correct outdated citations contained in the Human Rights Procedural Rules. Effective 01/01/08 the Human Rights Commission has jurisdiction to hear and determine requests for review of decisions of the Department to dismiss a charge; and notices of default issued by the Department. Effective 02/02/10, clarifies a respondent's rights upon receipt of a notice of default issued by the Department, expands the timeline for complainant to request the Commission review a notice of dismissal of a charge issued by the Department, expands the timeline for a complainant to request the Department file a complaint with the Commission on complainant's behalf. Effective 01/01/10 clarifies the public's right to access to the agency's public records.
- B) Statutory Authority: Implementing Section 5/8-103(A)(B)(C) and Article 8 of the Illinois Human Rights Act, and Sections 5/7A-102 (C)(4), 5/7A-102 (D)(3)(4), 7B-102 (D)(2)(a) and Article 7 of the Illinois Human Rights Act [775 ILCS 5/8- 103 (A)(B)(C), 775 ILCS 5/7A-102 (C)(4), and 775 ILCS 5/7B-102 (D)((2)(a)] and Implementing Section 140/1, 140/2.20, 140/3,140/6 [5 ILCS 140/1, 140/2.20, 140/3, 140/6] authorized by Section 5/8-102(E) of the Illinois Human Rights Act.
- C) Scheduled meeting/hearing dates: No meetings or hearings are scheduled or anticipated at this time.
- D) Date agency anticipates First Notice: During the next six months.
- E) Effect on small business, small municipalities or not for profit corporations: None
- F) Agency contact person for information:

Harriet Parker, General Counsel
Human Rights Commission
100 W. Randolph St., Ste. 5-100

HUMAN RIGHTS COMMISSION

JANUARY 2011 REGULATORY AGENDA

Chicago, IL 60601

312/814-6269 or 312/814-4760 (TTY)

- G) Related rulemaking and other pertinent information: None

SECRETARY OF STATE

JANUARY 2011 REGULATORY AGENDA

- a) Part(s) (Heading and Code Citations): Illinois Business Brokers Act of 1995, 14 Ill. Admin. Code 140
- 1) Rulemaking:
- A) Description of Rule(s): Amend rules and draft rules generally to conform regulations to legislative enactments.
- B) Statutory Authority: Illinois Business Brokers Act of 1995 [815 ILCS 307/10-1]
- C) Scheduled Meeting/Hearing Dates: None
- D) Date Agency Anticipates First Notice: Unknown
- E) Impact on Small Businesses, Small Municipalities or Not for Profit Corporations: Unknown
- F) Agency Contact Person for Information:
Illinois Secretary of State
Tanya Solov, Director
Illinois Securities Department
69 W. Washington Street, Suite 1220
Chicago, IL 60602
312-793-3384 Fax 312-793-1202
tsolov@ilsos.net
- G) Related Rulemakings and Other Pertinent Information: None
- b) Part(s) (Heading and Code Citations): Illinois Securities Law of 1953, 14 Ill. Admin. Code 130
- 1) Rulemaking:
- A) Description of Rule(s): Amend rules and draft rules generally to conform regulations to state and federal legislative enactments and rules of the US Securities and Exchange Commission.
- B) Statutory Authority: Illinois Securities Law of 1953 [815 ILCS 5/1]

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- C) Scheduled Meeting/Hearing Dates: None
 - D) Date Agency Anticipates First Notice: Unknown
 - E) Impact on Small Businesses, Small Municipalities or Not for Profit Corporations: Unknown
 - F) Agency Contact Person for Information:
Illinois Secretary of State
Tanya Solov, Director
Illinois Securities Department
69 W. Washington Street, Suite 1220
Chicago, IL 60602
312-793-3384 Fax 312-793-1202
tsolov@ilsos.net
 - G) Related Rulemakings and Other Pertinent Information: None
- c) Part(s) (Heading and Code Citations): Illinois Business Opportunity Sales Law of 1995, 14 Ill. Admin. Code 135
- 1) Rulemaking:
 - A) Description of Rule(s): Amend rules and draft rules generally to conform regulations to legislative enactments.
 - B) Statutory Authority: Illinois Business Opportunity Sales Law of 1995 [815 ILCS 602/5-1]
 - C) Scheduled Meeting/Hearing Dates: None
 - D) Date Agency Anticipates First Notice: Unknown
 - E) Impact on Small Businesses, Small Municipalities or Not for Profit Corporations: Unknown
 - F) Agency Contact Person for Information:
Illinois Secretary of State
Tanya Solov, Director

SECRETARY OF STATE

JANUARY 2011 REGULATORY AGENDA

Illinois Securities Department
69 W. Washington Street, Suite 1220
Chicago, IL 60602
312-793-3384 Fax 312-793-1202
tsolov@ilsos.net

- G) Related Rulemakings and Other Pertinent Information: None
- d) Part(s) (Heading and Code Citations): Illinois Loan Brokers Act of 1995, 14 Ill. Admin. Code 145
- 1) Rulemaking:
- A) Description of Rule(s): Amend rules and draft rules generally to conform regulations to legislative changes.
- B) Statutory Authority: Illinois Loan Brokers Act of 1995 [815 ILCS 175/15-1]
- C) Scheduled Meeting/Hearing Dates: None
- D) Date Agency Anticipates First Notice: Unknown
- E) Impact on Small Businesses, Small Municipalities or Not for Profit Corporations: Unknown
- F) Agency Contact Person for Information:
Illinois Secretary of State
Tanya Solov, Director
Illinois Securities Department
69 W. Washington Street, Suite 1220
Chicago, IL 60602
312-793-3384 Fax 312-793-1202
tsolov@ilsos.net
- G) Related Rulemakings and Other Pertinent Information: None
- e) Part(s) (Heading and Code Citations): Illinois State Library, Library Services Division (23 Ill. Admin. Code 3010)

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- 1) Rulemaking:
 - A) Description of Rule(s): Revision in Exhibit B related to use of public service area.
 - B) Statutory Authority: Implementing and authorized by the State Library Act [15 ILCS 320].
 - C) Scheduled Meeting/Hearing Dates: None
 - D) Date Agency Anticipates First Notice: April 2011
 - E) Impact on Small Businesses, Small Municipalities or Not for Profit Corporations: None
 - F) Agency Contact Person for Information:
Illinois Secretary of State
Joseph Natale
Rules Coordinator
Illinois State Library
Gwendolyn Brooks Building
300 South Second Street
Springfield, Illinois 62701-1796
217-558-4185 fax 217-557-2619
jnatale@ilsos.net
 - G) Related Rulemakings and Other Pertinent Information: None
- f) Part(s) (Heading and Code Citations): Illinois State Library Services Division (23 Ill. Admin. Code 3035)
 - 1) Rulemaking:
 - A) Description of Rule(s): Changes of status in all the library grant programs as related to State Grants (Subpart A).
 - B) Statutory Authority: Implementing and authorized by the Illinois Library System Act [75 ILCs 10].

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- C) Scheduled Meeting/Hearing Dates: None
- D) Date Agency Anticipates First Notice: April 2011
- E) Impact on Small Businesses, Small Municipalities or Not for Profit Corporations: The new standards detail assessment and reporting procedures for regional library systems.
- F) Agency Contact Person for Information:
Illinois Secretary of State
Joseph Natale
Rules Coordinator
Illinois State Library
Gwendolyn Brooks Building
300 South Second Street
Springfield, Illinois 62701-1796
217-558-4185 fax 217-557-2619
jnatale@ilsos.net
- G) Related Rulemakings and Other Pertinent Information: None
- g) Part(s) (Heading and Code Citations): Notary Public Records 14 Ill. Admin. Code 176
- 1) Rulemaking:
- A) Description of Rule(s): Rules will be amended to reflect procedures and policies executed by the Index Department in regards to the application and reapplication of individuals seeking commissions as notaries public for the state of Illinois. Rules also will outline process for completing applications process with county clerks. Language of this rule will clarify the costs applicable to purchasing data on notaries commissioned by the state in various formats.
- B) Statutory Authority: Illinois Notary Public Act 5 ILCS 312
- C) Scheduled Meeting/Hearing Dates: None
- D) Date Agency Anticipates First Notice: Unknown

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- E) Impact on Small Businesses, Small Municipalities or Not for Profit Corporations: The small businesses doing business in Illinois will have to submit proof of good standing and confirmation of insurance with the State of Illinois. The fees remain the same so the affect will not change from current practices. There is no affect on small municipalities or Not for Profit Corporations.
- F) Agency Contact Person for Information:
Illinois Secretary of State
Jacqueline Price, Director
Department of Index
111 E. Monroe Street
Springfield, Illinois 62756
217-782-7017 Fax 217-524-0930
jprice@ilsos.net
- G) Related Rulemakings and Other Pertinent Information: None
- h) Part(s) (Heading and Code Citations): Uniform Limited Partnership Act 14 Ill. Admin. Code 171.45
- 1) Rulemaking:
- A) Description of Rule(s): Rules will be amended to streamline registration processes for limited partnerships and to harmonize supporting documentation requirements with those of other business entities.
- B) Statutory Authority: 805 ILCS 215
- C) Scheduled Meeting/Hearing Dates: None
- D) Date Agency Anticipates First Notice: Unknown
- E) Impact on Small Businesses, Small Municipalities or Not for Profit Corporations: None
- F) Agency Contact Person for Information:
Illinois Secretary of State

SECRETARY OF STATE

JANUARY 2011 REGULATORY AGENDA

Michelle Nijm
Assistant General Counsel
100 W. Randolph Street, Suite 5-400
Chicago, Illinois 60601
312-814-7246 Fax 312-814-5958
mnijm@ilsos.net

G) Related Rulemakings and Other Pertinent Information: None

i) Part(s) (Heading and Code Citations): Uniform Partnership Act 14 Ill. Admin. Code 166.40

1) Rulemaking:

A) Description of Rule(s): Rules will be amended to streamline registration processes for limited liability partnerships and to harmonize supporting documentation requirements with those of other business entities.

B) Statutory Authority: 805 ILCS 206

C) Scheduled Meeting/Hearing Dates: None

D) Date Agency Anticipates First Notice: Unknown

E) Impact on Small Businesses, Small Municipalities or Not for Profit Corporations: None

F) Agency Contact Person for Information:
Illinois Secretary of State
Michelle Nijm
Assistant General Counsel
100 West Randolph Street, Suite 5-400
Chicago, Illinois 60601
312-814-7246 Fax 312-814-5958
mnijm@ilsos.net

G) Related Rulemakings and Other Pertinent Information: None

SECRETARY OF STATE

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- j) Part(s) (Heading and Code Citations): Dealers Established Place of Business (92 Ill. Admin. Code 1020.10)
- 1) Rulemaking:
- A) Description of Rule(s): This is a proposal to add new language by creating a new paragraph (f) to Title 92, Chapter II, Part 1020.10. There are times when a dealer licensed by the Secretary of State as a repairer (auto body shop) has sought approval to operate at the physical location where another separately owned dealer (usually a new vehicle dealer) licensed by the Secretary of State operates. Current rules do not permit this to be allowed. The Secretary of State seeks to add new language to the existing rules to permit such under restrictive guidelines and only when mutually agreed upon by both licensees.
- B) Statutory Authority: Illinois Vehicle Code Sections 5/2-101 and 5/2-104
- C) Scheduled Meeting/Hearing Dates: None
- D) Date Agency Anticipates First Notice: Unknown
- E) Impact on Small Businesses, Small Municipalities or Not for Profit Corporations: This proposal only impacts businesses that are licensed by the Secretary of State in a minimal way.
- F) Agency Contact Person for Information:
Illinois Secretary of State
Brad Demuzio, Director
Secretary of State Police
110 E. Adams
Springfield, Illinois 62701
217-782-7126 Fax 217-524-8020
dmuzio@ilsos.net
- G) Related Rulemakings and Other Pertinent Information: None
- k) Part(s) (Heading and Code Citations): Vehicles Subject to Registration – Exceptions (92 Ill. Admin. Code 1010.220)

SECRETARY OF STATE

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- 1) Rulemaking:
 - A) Description of Rule(s): This is a proposal to amend and add more defining language to Title 92, Chapter II, Part 1010.220, paragraph 9(c). There is a need for some vehicles to be excluded from the requirement to be registered to operate upon the roadways. Implements of Husbandry are such vehicles that are exempt from registration. The Secretary of State finds that there is a need to add more defining language used in the administrative code to further describe the specific types of wagons, trailers and vehicles that Section 5/1-130 of the Illinois Vehicle Code refers to.
 - B) Statutory Authority: Illinois Vehicle Code Sections 5/1-130, 5/2-101 and 5/2-104
 - C) Scheduled Meeting/Hearing Dates: None
 - D) Date Agency Anticipates First Notice: Unknown
 - E) Impact on Small Businesses, Small Municipalities or Not for Profit Corporations: Minimal to no impact upon the farm industry.
 - F) Agency Contact Person for Information:
Illinois Secretary of State
Brad Demuzio, Director
Secretary of State Police
110 E. Adams
Springfield, Illinois 62701
217-782-7126 Fax 217-524-8020
dmuzio@ilsos.net
 - G) Related Rulemakings and Other Pertinent Information: None
- l) Part(s) (Heading and Code Citations): Operation of Vehicles Without Proper Registration (92 Ill. Admin. Code 1010.330)
 - 1) Rulemaking:

SECRETARY OF STATE

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- A) Description of Rule(s): This is a proposal to strike and amend in full Title 92, Chapter II, Part 1010.330 and replace the entire part with all new language. This rule permits the Secretary of State to collect registration fees from second division vehicle owners that operate on the roadways of Illinois without lawful authority after apprehension or investigation by one of his sworn investigators. This enables the Secretary of State to collect monies on behalf of the State of Illinois that it would not be able to do otherwise. There is a need for the Secretary of State to strike and revise in entirety the current rule and replace it with new language to reflect the changes in procedures and policies that the Secretary of State wishes for his office to operate under.
- B) Statutory Authority: Illinois Vehicle Code Sections 5/3-401, 5/2-101 and 5/2-104
- C) Scheduled Meeting/Hearing Dates: None
- D) Date Agency Anticipates First Notice: Unknown
- E) Impact on Small Businesses, Small Municipalities or Not for Profit Corporations: This proposal strictly impacts only those businesses that choose to operate a second division vehicle on Illinois roadways without paying proper fees mandated by statute. This enables the Secretary of State to bring the owner into compliance with the statute.
- F) Agency Contact Person for Information:
Illinois Secretary of State
Brad Demuzio, Director
Secretary of State Police
110 E. Adams
Springfield, Illinois 62701
217-782-7126 Fax 217-524-8020
dmuzio@ilsos.net
- G) Related Rulemaking and Other Pertinent Information: None
- m) Part(s) (Heading and Code Citations): Administrative Citation for Violations (92 Ill. Admin. Code 1020.80)
- 1) Rulemaking:

SECRETARY OF STATE

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- A) Description of Rule(s): This is a proposal for a new administrative rule. This rule would allow Secretary of State Police sworn Investigators to issue administrative citations for violations of the administrative rules that a licensed dealer is mandated to operate under. Violators would be given the right to request an administrative hearing held by the Office of the Secretary of State to contest the merits of the citation. A preponderance of evidence by the state or a plea of guilt or no contest by the violator would be required before a hearing officer could implement an administrative fine of \$50.00 per violation or \$100.00 per violation for cases involving repeated offenses. This provides an enhanced measure to ensure compliance while enabling the Secretary of State to collect monies and deposit them in the Secretary of State Police Services fund.
- B) Statutory Authority: Illinois Vehicle Code Sections 5/2-101 and 5/2-104 and 5/5-100 et al.
- C) Scheduled Meeting/Hearing Dates: None
- D) Date Agency Anticipates First Notice: Unknown
- E) Impact on Small Businesses, Small Municipalities or Not for Profit Corporations: This proposal strictly impacts only dealer businesses that are licensed by statute by the Secretary of State and who choose not to follow the prescribed rules as mandated by the Administrative Code. Failure to pay fines in a timely manner would result in the revocation of the dealer license.
- F) Agency Contact Person for Information:
Illinois Secretary of State
Brad Demuzio, Director
Secretary of State Police
110 E. Adams
Springfield, Illinois 62701
217-782-7126 Fax 217-524-8020
dmuzio@ilsos.net
- G) Related Rulemakings and Other Pertinent Information: None

ILLINOIS STATE BOARD OF INVESTMENT

JANUARY 2011 REGULATORY AGENDA

- a) Part(s) (Heading and Code Citations): Rules and Regulations of the Board (74 Ill. Adm. Code 800)
- 1) Rulemaking:
- A) Description: The proposed amendments will update antiquated statutory references contained in 74 Ill. Adm. Code 800.
- B) Statutory Authority: 40 ILCS 5/22A
- C) Scheduled meeting/hearing dates: The Illinois State Board of Investment (ISBI) anticipates submitting its rulemaking proposal to the Board in Winter 2011.
- D) Date agency anticipates First Notice: ISBI's submittal of a proposal to the Board shall commence this proceeding. ISBI anticipates First Notice to occur in Winter or Spring 2011.
- E) Effect on small businesses, small municipalities or not for profit corporations: None.
- F) Agency contact person for information:
- Name: Linsey J. Schoemehl
General Counsel/Chief Compliance Officer
- Address: 180 N. LaSalle St., Suite 2015
Chicago, IL 60601
- Telephone: 312.793-1486
- Email: Linsey.Schoemehl@illinois.gov
- G) Related rulemakings and other pertinent information: This rulemaking is related to several other rulemakings listed in this Regulatory Agenda that are being developed to: i) update antiquated language contained in this Part ii) expand the Deferred Compensation program to allow participants to take loans from their accounts and iii) clarify the deadline for submitting hardship appeals under the Deferred Compensation Plan.

ILLINOIS STATE BOARD OF INVESTMENT

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- b) Part(s) (Heading and Code Citations): State (of Illinois) Employees' Deferred Compensation Plan (80 Ill. Adm. Code 2700)
- 1) Rulemaking:
- A) Description: The proposed amendments will expand 80 Ill. Adm. Code 2700 to allow participants to take loans from their accounts.
- B) Statutory Authority: 40 ILCS 5/22A
- C) Scheduled meeting/hearing dates: The Illinois State Board of Investment (ISBI) anticipates submitting its rulemaking proposal to the Board in Winter 2011.
- D) Date agency anticipates First Notice: ISBI's submittal of a proposal to the Board shall commence this proceeding. ISBI anticipates First Notice to occur in Winter or Spring 2011.
- E) Effect on small businesses, small municipalities or not for profit corporations: None.
- F) Agency contact person for information:
- Name: Linsey J. Schoemehl
General Counsel/Chief Compliance Officer
- Address: 180 N. LaSalle St., Suite 2015
Chicago, IL 60601
- Telephone: 312.793-1486
- Email: Linsey.Schoemehl@illinois.gov
- G) Related rulemakings and other pertinent information: This rulemaking is related to several other rulemakings listed in this Regulatory Agenda that are being developed to: i) update antiquated language contained in this Part ii) expand the Deferred Compensation program to allow participants to take loans from their accounts and iii) clarify the deadline for submitting hardship appeals under the Deferred Compensation Plan.
- 2) Rulemaking:

ILLINOIS STATE BOARD OF INVESTMENT

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- A) Description: The proposed amendments will modify 80 Ill. Adm. Code 2700 to clarify the deadline for participants to submit hardship appeals.
- B) Statutory Authority: 40 ILCS 5/22A
- C) Scheduled meeting/hearing dates: The Illinois State Board of Investment (ISBI) anticipates submitting its rulemaking proposal to the Board in Winter 2011.
- D) Date agency anticipates First Notice: ISBI's submittal of a proposal to the Board shall commence this proceeding. ISBI anticipates First Notice to occur in Winter or Spring 2011.
- E) Effect on small businesses, small municipalities or not for profit corporations: None.
- F) Agency contact person for information:
- Name: Linsey J. Schoemehl
General Counsel/Chief Compliance Officer
- Address: 180 N. LaSalle St., Suite 2015
Chicago, IL 60601
- Telephone: 312.793-1486
- Email: Linsey.Schoemehl@illinois.gov
- G) Related rulemakings and other pertinent information: This rulemaking is related to several other rulemakings listed in this Regulatory Agenda that are being developed to: i) update antiquated language contained in this Part ii) expand the Deferred Compensation program to allow participants to take loans from their accounts and iii) clarify the deadline for submitting hardship appeals under the Deferred Compensation Plan.

JOINT COMMITTEE ON ADMINISTRATIVE RULES
ILLINOIS GENERAL ASSEMBLY

SECOND NOTICES RECEIVED

The following second notices were received by the Joint Committee on Administrative Rules during the period of December 7, 2010 through December 13, 2010 and have been scheduled for review by the Committee at its January 11, 2011 meeting. Other items not contained in this published list may also be considered. Members of the public wishing to express their views with respect to a rulemaking should submit written comments to the Committee at the following address: Joint Committee on Administrative Rules, 700 Stratton Bldg., Springfield IL 62706.

<u>Second Notice Expires</u>	<u>Agency and Rule</u>	<u>Start Of First Notice</u>	<u>JCAR Meeting</u>
1/21/11	<u>Department of Transportation</u> , Rates to be Charged by Official Testing Stations for School Buses (92 Ill. Adm. Code 446)	10/22/10 34 Ill. Reg. 16301	1/11/11
1/21/11	<u>Department of Transportation</u> , Rates to be Charged by Official Testing Stations for Vehicles Other Than School Buses (92 Ill. Adm. Code 454)	10/22/10 34 Ill. Reg. 16315	1/11/11
1/22/11	<u>Department of Natural Resources</u> , Conservation Reserve Enhancement Program (CREP) (17 Ill. Adm. Code 1515)	10/8/10 34 Ill. Reg. 14825	1/11/11
1/22/11	<u>Department of Natural Resources</u> , The Taking of Wild Turkeys – Spring Season (17 Ill. Adm. Code 710)	10/15/10 34 Ill. Reg. 15749	1/11/11
1/23/11	<u>Department of Revenue</u> , Retailers' Occupation Tax (86 Ill. Adm. Code 130)	10/8/10 34 Ill. Reg. 15241	1/11/11
1/26/11	<u>Department of Children and Family Services</u> , Reports of Child Abuse and Neglect (89 Ill. Adm. Code 300)	2/16/10 34 Ill. Reg. 2386	1/11/11

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

NOTICE OF PUBLIC INFORMATION

Petition for Exemption from Section 22.23b of the Environmental Protection Act

Mercury Displacement Industries, Inc. (MDI, Inc.), P.O. Box 710 Edwardsburg, MI, 49112, has submitted a petition to the Illinois Environmental Protection Agency ("Illinois EPA") for an exemption from Section 22.23b of the Illinois Environmental Protection Act ("Act") [415 ILCS 5/22.23b]. Section 22.23b of the Act states that "no person shall sell, offer to sell, distribute, or offer to distribute a mercury switch or a mercury relay individually or as a product component." 415 ILCS 5/22.23b. The manufacturer of a mercury switch or mercury relay may petition the Illinois EPA for an exemption from Section 22.23b for one or more specific uses of the switch or relay. Requirements for the petition and procedures for the Illinois EPA's review of the petition can be found in Section 22.23b(c) of the Act [415 ILCS 5/22.23b(c)] and in Illinois EPA rules at 35 Ill. Adm. Code 182.

Pursuant to 35 Ill. Adm. Code 182.302(a), the Illinois EPA is providing public notice of the following information:

1. The petitioner is identified above. An exemption is sought for relays used in industrial ultraviolet lighting where the lamps operate at over 660 VAC.
2. The above products are used to switch industrial ultraviolet lighting systems operating under high voltages.
3. A copy of the petition is available for review at the Illinois EPA's headquarters. Persons wanting to review the application may do so during normal business hours at:

Illinois EPA Headquarters
1021 North Grand Avenue East
Springfield, IL 62794-9276

Phone: 217-524-9642; TDD 217-782-9143

Please call ahead to assure that someone will be available to assist you.

4. Written public comments on the petition may be submitted to the Illinois EPA for a period of 45 days after the date of publication of this notice. Comments must be submitted to the following address:

Becky Jayne, MC #34

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

NOTICE OF PUBLIC INFORMATION

Illinois EPA
1021 North Grand Avenue East
P. O. Box 19276
Springfield, IL 62794-9276

Phone: 217-524-9642; TDD 217-782-9143
E-mail: Becky.Jayne@illinois.gov

EXECUTIVE ORDER

2010-14

EXECUTIVE ORDER FOR THE ESTABLISHMENT OF A COASTAL MANAGEMENT PROGRAM IN ILLINOIS

WHEREAS, Illinois is dedicated to protecting and managing our natural and cultural resources along our magnificent 63 mile stretch of Lake Michigan shoreline; and

WHEREAS, During the last two centuries, Illinois' coast has undergone nearly a complete metamorphosis with its monumental hydrologic modifications, enormous industrial impacts, building of an excellent transportation infrastructure, and creation of skyscrapers that grace our shoreline; and

WHEREAS, Our shoreline is highly urbanized and has been subject to considerable stress from intense land use and competition to serve the economic and workforce needs and demands of this densely populated area; and

WHEREAS, The environmental legacy of our industrial sites and the needs and demands of a growing and vibrant urban community create a complex set of issues to balance as we invest in programs that seek to restore our ecosystems and meet the increasing demands for open space, recreation, and public access; and

THEREFORE, I, Pat Quinn, Governor of Illinois, pursuant to the authority vested in me by Article V of the Constitution of the State of Illinois, hereby establish the Illinois Coastal Management Program within the Illinois Department of Natural Resources. I hereby direct all state agencies to carry out their legally established duties consistently with this program and in a manner which promotes coordination among those agencies in achieving its goals and objectives:

I. DESIGNATED STATE AGENCY

The Illinois Department of Natural Resources (IDNR) is the lead state agency responsible for development and implementation of the Illinois Coastal Management Program (ICMP). The mission of the IDNR is to manage, protect, and sustain Illinois' natural and cultural resources, further the public's understanding and appreciation of those resources, and promote the education, science and public safety of our natural resources for present and future generations.

II. COASTAL MANAGEMENT PROGRAM OBJECTIVES

State agencies listed in Section III are those which have responsibility for Illinois coastal resources and are part of the ICMP network. All these agencies shall administer their programs in support of the following ICMP goals and objectives:

EXECUTIVE ORDER

- a) Enhance the State's role in supporting and coordinating partnerships among local, state and federal agencies in managing coastal resources.
- b) Facilitate the development of a shared vision and policies for the protection, restoration, and enhancement of Illinois coastal resources for this and succeeding generations.
- c) Develop strategies to mitigate and adapt to climate change, including reducing individual carbon footprints and expanding use of Illinois' natural resources to act as natural carbon sinks.
- d) Develop site-specific strategies to address persistent bio-accumulative toxins.
- e) Investigate mitigation and long-term, sustainable solutions to aquatic and terrestrial invasive species.
- f) Facilitate the expansion of the use of green infrastructure to control storm-water, promote groundwater recharge and reduce flooding.
- g) Provide technical and financial assistance to acquire new, add or improve public recreational sites and facilities, and to create new or improve public access to coastal waters.
- h) Provide assistance to improve management programs and support state and local government efforts to identify and designate areas especially suited for water-related economic development and in redeveloping port and waterfront areas.

III. ICMP COORDINATION VIA THE TECHNICAL ADVISORY COMMITTEE

A Technical Advisory Committee (TAC) for the ICMP is hereby established. The TAC will use existing resources and shall be comprised of state agencies with responsibility for implementing the authorities of the ICMP as described in the ICMP Program Document, which is being completed by IDNR as the lead state agency for the ICMP. Other agencies/entities will be included in the TAC as deemed necessary by the ICMP director. The ICMP director shall serve as the Chairman of the TAC. The TAC shall be a forum to resolve conflicts on state consistency, as detailed in Section IV below, and to discuss issues related to the implementation of federal consistency, as detailed in Section V below. The TAC shall also be a forum to provide review of projects under consideration for funding by the ICMP.

Implementation

EXECUTIVE ORDER

The following Illinois agencies shall have primary responsibility for implementing the Management Authorities of the ICMP, as described in Chapter 9 of the ICMP Program Document:

Department of Natural Resources
Environmental Protection Agency
Department of Agriculture
Department of Commerce and Economic Opportunity
Emergency Management Agency
Department of Transportation
Nature Preserves Commission
Historic Preservation Agency

These agencies and all other state agencies that conduct activities which may affect land and water uses and resources of the Illinois coastal zone shall conduct their activities in a manner consistent with the policies of the ICMP, as described in Chapter 9 of the ICMP Program Document. For the purposes of the ICMP, land and water uses of the coastal zone shall refer to those identified in the ICMP Program Document. Coastal resources are those within the boundary of the coastal zone as defined in the ICMP Program Document.

IV. RESOLUTION OF CONFLICTS

When, in the judgment of the ICMP director, a State agency or Regulatory board or Commission is ready to act in a manner that appears to be inconsistent with the ICMP policies or has established a pattern of actions that appears to be inconsistent with the ICMP policies, the ICMP director shall discuss the situation with the Agency head to determine if a consistency problem exists.

If, in the judgment of the ICMP director, a consistency problem still exists after discussion with the Agency head, the ICMP director shall bring the matter before the TAC at a regular TAC meeting, ad hoc meeting, or through other means. If the TAC cannot resolve the problem, the ICMP director shall advise the director of the IDNR that a state consistency problem exists. The IDNR director shall then determine if a state consistency problem exists.

If, in the judgment of the IDNR director a state consistency problem exists, the IDNR director will discuss the issue with the Agency head and attempt a resolution. If the IDNR director is unable to resolve the issue, he shall report the problem to the Governor with recommendations for appropriate action. The Governor shall have the ultimate responsibility for resolving any state consistency problem which cannot be resolved by the IDNR director and Agency head.

EXECUTIVE ORDER

V. FEDERAL CONSISTENCY

The IDNR will be the state agency that implements the Federal Consistency provisions of the Coastal Zone Management Act of 1972, as amended (CZMA), upon federal approval of the ICMP. Pursuant to the CZMA, CZMA regulations at 15 C.F.R. part 930, and the Federal Consistency process described in the ICMP Program Document, the IDNR will determine whether federal actions are consistent with the enforceable policies of the ICMP, which are listed in Chapter 11 of the ICMP Document. With support from staff in the state agencies listed in Section III above, ICMP staff shall monitor all federal actions which affect coastal uses or resources. The Technical Advisory Committee is a forum where the ICMP director or designee may discuss and come to agreement with other state agencies on specific federal consistency issues.

VI. EFFECTIVE DATE

This Executive Order will become effective upon federal approval of the Illinois Coastal Management Program.

Issued by the Governor: December 10, 2010

Filed with the Secretary of State: December 10, 2010

ILLINOIS ADMINISTRATIVE CODE
Issue Index - With Effective Dates

Rules acted upon in Volume 34, Issue 52 are listed in the Issues Index by Title number, Part number, Volume and Issue. Inquiries about the Issue Index may be directed to the Administrative Code Division at (217) 782-7017/18.

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