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November 22, 2013 Volume 37, Issue 47

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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 peremptory 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 2013

Issue#	Rules Due Date	Date of Issue
1	December 26, 2012	January 4, 2013
2	December 31, 2012	January 11, 2013
3	January 7, 2013	January 18, 2013
4	January 14, 2013	January 25, 2013
5	January 22, 2013	February 1, 2013
6	January 28, 2013	February 8, 2013
7	February 4, 2013	February 15, 2013
8	February 11, 2013	February 22, 2013
9	February 19, 2013	March 1, 2013
10	February 25, 2013	March 8, 2013
11	March 4, 2013	March 15, 2013
12	March 11, 2013	March 22, 2013
13	March 18, 2013	March 29, 2013
14	March 25, 2013	April 5, 2013
15	April 1, 2013	April 12, 2013
16	April 8, 2013	April 19, 2013
17	April 15, 2013	April 26, 2013
18	April 22, 2013	May 3, 2013
19	April 29, 2013	May 10, 2013
20	May 6, 2013	May 17, 2013

21	May 13, 2013	May 24, 2013
22	May 20, 2013	May 31, 2013
23	May 28, 2013	June 7, 2013
24	June 3, 2013	June 14, 2013
25	June 10, 2013	June 21, 2013
26	June 17, 2013	June 28, 2013
27	June 24, 2013	July 5, 2013
28	July 1, 2013	July 12, 2013
29	July 8, 2013	July 19, 2013
30	July 15, 2013	July 26, 2013
31	July 22, 2013	August 2, 2013
32	July 29, 2013	August 9, 2013
33	August 5, 2013	August 16, 2013
34	August 12, 2013	August 23, 2013
35	August 19, 2013	August 30, 2013
36	August 26, 2013	September 6, 2013
37	September 3, 2013	September 13, 2013
38	September 9, 2013	September 20, 2013
39	September 16, 2013	September 27, 2013
40	September 23, 2013	October 4, 2013
41	September 30, 2013	October 11, 2013
42	October 7, 2013	October 18, 2013
43	October 15, 2013	October 25, 2013
44	October 21, 2013	November 1, 2013
45	October 28, 2013	November 8, 2013
46	November 4, 2013	November 15, 2013
47	November 12, 2013	November 22, 2013
48	November 18, 2013	December 2, 2013
49	November 25, 2013	December 6, 2013
50	December 2, 2013	December 13, 2013
51	December 9, 2013	December 20, 2013
52	December 16, 2013	December 27, 2013

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, 2013 to January 2, 2014.

DEPARTMENT OF FINANCIAL AND PROFESSIONAL REGULATION

NOTICE OF PROPOSED AMENDMENTS

- 1) Heading of the Part: Massage Licensing Act
- 2) Code Citation: 68 Ill. Adm. Code 1284
- 3)

<u>Section Numbers</u> :	<u>Proposed Action</u> :
1284.20	Amend
1284.30	Amend
- 4) Statutory Authority: Implementing the Massage Licensing Act [225 ILCS 57] and authorized by Section 2105-15(7) of the Civil Administrative Code of Illinois [20 ILCS 2105/2105-15(7)]
- 5) A Complete Description of the Subjects and Issues Involved: These proposed amendments will require an applicant to verify that his or her fingerprints have been processed by a licensed fingerprint vendor, as required by Section 15(b) of the Act [225 ILCS 57/15(b)]. Additionally, these amendments will add a "credit hours" equivalency as an option when applying for licensure to the already existing classroom hours language, to aid massage therapy students when applying for federal student loans.
- 6) Published studies or reports and sources of underlying data used to comprise 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 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:

Department of Financial and Professional Regulation

DEPARTMENT OF FINANCIAL AND PROFESSIONAL REGULATION

NOTICE OF PROPOSED AMENDMENTS

Attention: Craig Cellini
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: Those providing massage therapy services.
 - B) Reporting, bookkeeping or other procedures required for compliance: None
 - C) Types of professional skills necessary for compliance: Massage therapy training is necessary for licensure.
- 14) Regulatory Agenda on which this rulemaking was summarized: January 2013

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

DEPARTMENT OF FINANCIAL AND PROFESSIONAL REGULATION

NOTICE OF PROPOSED AMENDMENTS

TITLE 68: PROFESSIONS AND OCCUPATIONS

CHAPTER VII: DEPARTMENT OF FINANCIAL AND PROFESSIONAL REGULATION

SUBCHAPTER b: PROFESSIONS AND OCCUPATIONS

PART 1284

MESSAGE LICENSING ACT

Section

1284.10	Requirements for Licensure Under Section 20 of the Act (Grandfather) (Repealed)
1284.20	Approved Programs
1284.30	Application for Licensure
1284.40	Endorsement
1284.45	Display of License
1284.50	Fees
1284.60	Renewals
1284.70	Inactive Status
1284.80	Restoration
1284.90	Continuing Education
1284.110	Granting Variances

AUTHORITY: Implementing the Massage Licensing Act [225 ILCS 57] and authorized by Section 2105-15(7) of the Civil Administrative Code of Illinois [20 ILCS 2105/2105-15(7)].

SOURCE: Adopted at 28 Ill. Reg. 13366, effective September 21, 2004; amended at 30 Ill. Reg. 12114, effective June 29, 2006; amended at 35 Ill. Reg. 12885, effective July 20, 2011; amended at 37 Ill. Reg. 13417, effective January 1, 2014; amended at 38 Ill. Reg. _____, effective _____.

Section 1284.20 Approved Programs

- a) Effective January 1, 2014, an applicant's massage therapy training must meet the following minimum criteria:
 - 1) A minimum of 600 clock hours or its equivalent in credit hours of supervised classroom and supervised hands-on instruction. Should an applicant not meet the required number of classroom/hands-on hours, the Division may require completion of additional coursework, as identified in subsection (a)(2), prior to licensure. For purposes of this subsection (a)(1),

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NOTICE OF PROPOSED AMENDMENTS

"supervised" means the supervisor is physically on-site, qualified and immediately available.

- 2) The minimum required subject matter and activities are:
 - A) Human anatomy, physiology, pathology and kinesiology.
 - B) Massage therapy theory, technique and practice, which may include but is not limited to: effleurage/gliding; petrissage/kneading; compression; friction tapotement/percussion; vibration; direct pressure; superficial warming techniques; pumping; stretching; jostling; shaking; rocking.
 - C) Contraindications, benefits, universal precautions, body mechanics, history, client data collection, documentation, ethics, business and legalities of massage, professional standards including draping and modesty, therapeutic relationships and communications.
- 3) Each student must maintain a minimum grade of 70% for all massage therapy related course and clinical work as described in this Section.
- b) A massage therapy program must meet the following minimum criteria:
 - 1) Maintain a written program philosophy, objectives and plan of organization;
 - 2) Have written plans of study, including prerequisite, requisite and elective courses;
 - 3) Maintain course outlines or syllabi for all massage therapy courses;
 - 4) Provide a student handbook;
 - 5) Have a faculty that consists of a sufficient number of full and part-time instructors to ensure that the educational obligations to the student are fulfilled. Lab/clinical/community course core (lead) faculty must demonstrate competence in their respective areas of teaching as evidenced by a minimum of 2 years or 2000 hours of experience in their field.

DEPARTMENT OF FINANCIAL AND PROFESSIONAL REGULATION

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Human sciences course core (lead) faculty (anatomy, pathology, physiology) must demonstrate competence in their respective areas of teaching as evidenced by a minimum of 2 years or 2000 hours experience in their field and/or by appropriate degrees/certificates from approved colleges/schools/institutions/programs;

- 6) If a program utilizes faculty assistants, it shall establish and maintain policies that set forth qualifications, duties and procedures for use of these personnel. Faculty assistants shall not be used as substitutes or replacements for regular faculty; shall not be responsible for the overall evaluation of any student; and shall work under the direct supervision of approved faculty;
 - 7) Maintain permanent student records that summarize the credentials for admission, attendance, grades and other records of performance;
 - 8) The ratio of students to faculty in the lab/clinical/community area shall not exceed 20 students to 1 instructor with no more than 10 student therapists and 10 serving as clients; and
 - 9) All hands-on practice must be done on a living human being.
- c) A massage therapy program from another jurisdiction must have substantially similar criteria for an applicant to have his or her credentials accepted for licensure by the Department.

(Source: Amended at 38 Ill. Reg. _____, effective _____)

Section 1284.30 Application for Licensure

- a) Any applicant for a massage therapy license shall meet all of the following requirements:
 - 1) The applicant is at least 18 years of age and of good moral character;
 - 2) The applicant has successfully completed an approved massage therapy program in accordance with Section 1284.20 or a substantially similar massage therapy program from another jurisdiction and passed the National Certification Board for Therapeutic Massage & Bodywork's

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NOTICE OF PROPOSED AMENDMENTS

(NCBTMB) examination or the Massage & Bodywork Licensing Examination (MBLEx) administered by the Federation of State Massage Therapy Boards (FSMTB).

- 3) Should an applicant not meet the required number of classroom/hands-on hours required for licensure, the Division may require completion of additional coursework prior to licensure.
 - 4) Verification of fingerprint processing from the Illinois Department of State Police (ISP), an ISP live scan vendor whose equipment has been certified by ISP, or a fingerprint vendor agency licensed by the Division. Out-of-state residents unable to utilize the ISP electronic fingerprint process may submit to ISP one fingerprint card issued by ISP, accompanied by the fee specified by ISP. Fingerprints shall be taken within the 60 days prior to application. Either:
 - ~~A) Verification of electronic fingerprint processing from the Illinois Department of State Police or one of the Illinois State Police approved vendors. Applicants shall contact one of the approved vendors for fingerprint processing; or~~
 - ~~B) Out-of-state residents unable to utilize the Illinois State Police electronic fingerprint process may submit to one of the Illinois State Police approved vendors one fingerprint card issued by the Illinois State Police, accompanied by the fee specified by the vendor; and~~
 - 5) Pay the required fee specified in Section 1284.50.
- b) When the accuracy of any submitted documentation or the relevance or sufficiency of the course work or experience is questioned by the Division because of lack of information, discrepancies or conflicts in information given, or a need for clarification, the applicant seeking licensure shall be requested to:
- 1) Provide such information as may be necessary; and/or
 - 2) Appear for an interview before the Massage Licensing Board (Board) to explain such relevance or sufficiency, clarify information or clear up any discrepancies or conflicts in information.

DEPARTMENT OF FINANCIAL AND PROFESSIONAL REGULATION

NOTICE OF PROPOSED AMENDMENTS

(Source: Amended at 38 Ill. Reg. _____, effective _____)

DEPARTMENT OF FINANCIAL AND PROFESSIONAL REGULATION

NOTICE OF PROPOSED AMENDMENTS

- 1) Heading of the Part: Real Estate Appraiser Licensing
- 2) Code Citation: 68 Ill. Adm. Code 1455
- 3)

<u>Section Numbers:</u>	<u>Proposed Action:</u>
1455.10	Amend
1455.240	Amend
- 4) Statutory Authority: Implementing and authorized by the Real Estate Appraiser Licensing Act of 2002 [225 ILCS 458]
- 5) A Complete Description of the Subjects and Issues Involved: Pursuant to Title XI of the federal Financial Institutions Recovery, Reform, and Enforcement Act of 1989, as amended, the Appraisal Standards Board of the Appraisal Foundation on October 5, 2013, issued a revised edition of the Uniform Standards of Professional Appraisal Practice (USPAP) effective January 1, 2014. Section 10-10 of the Real Estate Appraiser Licensing Act of 2002 (225 ILCS 458) requires that the Department of Financial and Professional Regulation adopt the current edition of USPAP by rule. These proposed amendments will implement this requirement.
- 6) Published studies or reports and sources of underlying data used to comprise 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? Yes
- 10) Are there any other proposed rulemakings pending on this Part? Yes

<u>Section Numbers</u>	<u>Proposed Action</u>	<u>Illinois Register Citation</u>
1455.130	Amendment	37 Ill. Reg. 7851; June 14, 2013
1455.316	Amendment	37 Ill. Reg. 7851; June 14, 2013
1455.345	Amendment	37 Ill. Reg. 7851; June 14, 2013
- 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.

DEPARTMENT OF FINANCIAL AND PROFESSIONAL REGULATION

NOTICE OF PROPOSED AMENDMENTS

- 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:

Department of Financial and Professional Regulation
Attention: Craig Cellini
320 West Washington, 3rd Floor
Springfield, IL 62786

Phone: 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: Real estate appraisal schools and businesses that use real estate appraisers will be affected, but appraisers are required by federal law to operate under the most current version of USPAP.
 - B) Reporting, bookkeeping or other procedures required for compliance: Compliance with the 2014 USPAP standards will be required.
 - C) Types of professional skills necessary for compliance: Appraiser education and experience is necessary for licensure
- 14) Regulatory Agenda on which this rulemaking was summarized: This rule was not included on either of the 2 most recent agendas because the USPAP standards weren't released until October of this year.

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

DEPARTMENT OF FINANCIAL AND PROFESSIONAL REGULATION

NOTICE OF PROPOSED AMENDMENTS

TITLE 68: PROFESSIONS AND OCCUPATIONS

CHAPTER VII: DEPARTMENT OF FINANCIAL AND PROFESSIONAL REGULATION

SUBCHAPTER b: PROFESSIONS AND OCCUPATIONS

PART 1455

REAL ESTATE APPRAISER LICENSING

SUBPART A: DEFINITIONS

Section
1455.10 Definitions

SUBPART B: LICENSING REQUIREMENTS

Section
1455.100 Application for a State Certified General Real Estate Appraiser License and a State Certified Residential Real Estate Appraiser License; Application for an Associate Real Estate Trainee Appraiser License; Application by Non-Resident for Licensure by Endorsement

1455.110 Application for Renewal of State Certified General Real Estate Appraiser License, State Certified Residential Real Estate Appraiser License, and Associate Real Estate Trainee Appraiser License; Late Renewal of State Certified General Real Estate Appraiser License, State Certified Residential Real Estate Appraiser License, and Associate Real Estate Trainee Appraiser License; Reinstatement of State Certified General Real Estate Appraiser License, State Certified Residential Real Estate Appraiser License, and Associate Real Estate Trainee Appraiser License; Application for Military Deferral; Expiration Date

1455.120 Conversion of a State Licensed Real Estate Appraiser License to an Associate Real Estate Appraiser License; Late Conversion; No Issuance of State Licensed Real Estate Appraiser License (Repealed)

1455.130 Application for Temporary Practice Permit; Term of Permit; Scope of Practice; Regulatory Responsibility; Notice

1455.140 Issuance of Certificate to Real Estate Appraisers; Temporary Practice Permits

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- 1455.160 Estate Trainee Appraiser; Non-Resident Qualifying Education; In Lieu of Requirements; Foreign Degrees
Continuing Education Requirements for State Certified General Real Estate Appraiser, State Certified Residential Real Estate Appraiser, and Associate Real Estate Trainee Appraiser; Non-Resident Continuing Education Approval

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- 1455.350 Education Provider Application; Requirements
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- 1455.365 Practicum Course Requirements
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- 1455.380 Examples of Acceptable Pre-License Education Courses (Repealed)
- 1455.390 Continuing Education Course Requirements of Education Providers
- 1455.400 Curriculum for Continuing Education Courses; Continuing Education Credit for Participation Other Than as a Student
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- 1455.460 Education Providers, Pre-License and Continuing Education Courses – Transition Provisions (Repealed)

SUBPART J: HEARINGS

Section

- 1455.470 Applicability (Repealed)
- 1455.480 Administrative Law Judges (Repealed)

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1455.490 Disqualification of an Administrative Law Judge (Repealed)

1455.APPENDIX A Caption for a Case Filed by the Division (Repealed)

1455.APPENDIX B Caption for a Case Filed by the Petitioner (Repealed)

AUTHORITY: Implementing and authorized by the Real Estate Appraiser Licensing Act of 2002 [225 ILCS 458].

SOURCE: Emergency rules adopted at 16 Ill. Reg. 16196, effective September 30, 1992, for a maximum of 150 days; rules adopted at 17 Ill. Reg. 1589, effective January 26, 1993; emergency amendment at 17 Ill. Reg. 6668, effective April 19, 1993, for a maximum of 150 days; amended at 17 Ill. Reg. 13494, effective July 30, 1993; amended at 18 Ill. Reg. 2379, effective January 28, 1994; emergency amendment at 18 Ill. Reg. 3006, effective February 10, 1994, for a maximum of 150 days; amended at 18 Ill. Reg. 8428, effective May 24, 1994; amended at 19 Ill. Reg. 9176, effective June 26, 1995; emergency amendment at 19 Ill. Reg. 12503, effective August 16, 1995, for a maximum of 150 days; amended at 19 Ill. Reg. 16604, effective December 1, 1995; amended at 20 Ill. Reg. 6488, effective April 30, 1996; recodified from Chapter VII, Department of Professional Regulation, to Chapter VIII, Office of Banks and Real Estate, pursuant to PA 89-23 and PA 89-508, at 20 Ill. Reg. 11984; amended at 21 Ill. Reg. 1685, effective January 27, 1997; amended at 21 Ill. Reg. 5538, effective April 18, 1997; emergency amendment at 22 Ill. Reg. 4132, effective February 4, 1998, for a maximum of 150 days; emergency amendment at 22 Ill. Reg. 8534, effective April 29, 1998, for a maximum of 150 days; old Part repealed by emergency rulemaking at 22 Ill. Reg. 12979, effective July 1, 1998, for a maximum of 150 days; new Part adopted by emergency rulemaking at 22 Ill. Reg. 13011, effective July 1, 1998, for a maximum of 150 days; old Part repealed and new Part adopted at 22 Ill. Reg. 20815, effective November 20, 1998; old Part repealed at 26 Ill. Reg. 10883 and new Part adopted by emergency rulemaking at 26 Ill. Reg. 10844, effective July 1, 2002, for a maximum of 150 days; old Part repealed at 26 Ill. Reg. 17689 and new Part adopted at 26 Ill. Reg. 17692, effective November 27, 2002; emergency amendment at 27 Ill. Reg. 14653, effective August 29, 2003, for a maximum of 150 days; amended at 28 Ill. Reg. 824, effective December 29, 2003; amended at 29 Ill. Reg. 16445, effective October 13, 2005; amended at 31 Ill. Reg. 4741, effective March 9, 2007; amended at 33 Ill. Reg. 7121, effective May 14, 2009; amended at 35 Ill. Reg. 1967, effective January 20, 2011; amended at 35 Ill. Reg. 19505, effective November 17, 2011; amended at 37 Ill. Reg. 2668, effective April 1, 2013; amended at 38 Ill. Reg. _____, effective _____.

SUBPART A: DEFINITIONS

DEPARTMENT OF FINANCIAL AND PROFESSIONAL REGULATION

NOTICE OF PROPOSED AMENDMENTS

Section 1455.10 Definitions

Unless otherwise clarified by this Part, definitions set forth in the Act also apply for the purposes of this Part.

"Act" means the Real Estate Appraiser Licensing Act of 2002 [225 ILCS 458].

"Applicant" means a person applying for licensure under this Act as a State Certified General Real Estate Appraiser, State Certified Residential Real Estate Appraiser, or Associate Real Estate Trainee Appraiser. Any applicant or any person who holds himself or herself out as an applicant is considered a licensee for purposes of enforcement, investigation, hearings, and the Illinois Administrative Procedure Act [5 ILCS 100].

"Appraisal management company" means any corporation, limited liability company, partnership, sole proprietorship, subsidiary, unit, or other business entity that directly or indirectly performs the following appraisal management services:

administers networks of independent contractors or employee appraisers to perform real estate appraisal assignments for clients;

receives requests for real estate appraisal services from clients and, for a fee paid by the client, enters into an agreement with one or more independent appraisers to perform the real estate appraisal services contained in the request; or

otherwise serves as a third-party broker of appraisal management services between clients and appraisers. [225 ILCS 459/10]

"AQB 2008 Criteria" means the Real Property Appraiser Qualification Criteria (effective January 1, 2008, no later amendments or editions), published by the Appraiser Qualifications Board of The Appraisal Foundation, 1155 15th Street, NW, Suite 1111, Washington DC 20005.

"Board" or "AQB" means the Appraiser Qualification Board.

"Classroom hour" or "hour" as it pertains to the education requirements means classroom attendance for a minimum of 50 minutes of lecture or its equivalent

DEPARTMENT OF FINANCIAL AND PROFESSIONAL REGULATION

NOTICE OF PROPOSED AMENDMENTS

through a distance education program approved by the Division.

"Client" means the party or parties who engage an appraiser, by employment or contract, in a specific assignment. If an appraisal management company is the party engaging the appraiser, the appraisal management company is considered the client.

"Continuing education" means education that is creditable toward the education requirements that must be satisfied to renew licensure or certification, as set forth in Section 1455.160.

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

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

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

"Experience/work log" means the form described in Section 1455.190 that verifies an appraiser's experience and work history.

"Jurisdictional exception" means an assignment condition established by applicable law or regulation, which precludes an appraiser from complying with USPAP.

"License" means a certificate of authority, permit or registration issued by the Division.

"Licensee" means a person who has been issued a license under the Act or this Part. Anyone who holds himself or herself out as a licensee or who is accused of unlicensed practice is considered a licensee for purposes of enforcement, investigation, hearings, and the Illinois Administrative Procedure Act.

"Master agreement" means a written service agreement between a traditional client and a real estate appraiser or panel of approved appraisers.

"Non-traditional client" means the Division or an approved practicum course provider.

DEPARTMENT OF FINANCIAL AND PROFESSIONAL REGULATION

NOTICE OF PROPOSED AMENDMENTS

"Practicum course instructor" means a Certified Residential Appraiser or a Certified General Appraiser in good standing with the Division who is authorized to conduct an approved practicum course.

"Qualifying education" means education that is creditable toward the requirements set forth in Section 1455.150.

"Quantitative experience" means actual time spent on the appraisal process.

"Residential" means composed of 1 to 4 residential units.

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

"Traditional client" means a client who hires an appraiser to complete an assignment by employment or contract for business purposes.

"USPAP" means the Uniform Standards of Professional Appraisal Practice promulgated by the Appraisal Standards Board pursuant Title XI of the Federal Financial Institutions Reform, Recovery and Enforcement Act of 1989 (12 USC 3331 et seq.) published by the Appraisal Standards Board of The Appraisal Foundation, 1155 15th Street N.W., Suite 1111, Washington DC 20005 (effective January 1, ~~2014~~²⁰¹², no later amendments or editions).

"Web Form" means a web page that allows a user to enter data that is sent to a server for processing.

"Written Engagement" means a defined relationship between a real estate appraiser or appraisers and the client. It states the terms, conditions and scope of the appraisal service request, including but not limited to compensation.

(Source: Amended at 38 Ill. Reg. _____, effective _____)

SUBPART E: BUSINESS PRACTICES; STANDARDS AND SCOPE OF PRACTICE

Section 1455.240 Uniform Standards of Professional Appraisal Practice (USPAP)

DEPARTMENT OF FINANCIAL AND PROFESSIONAL REGULATION

NOTICE OF PROPOSED AMENDMENTS

- a) Pursuant to Section 10-10 of the Act, the ~~2014~~²⁰¹² USPAP are hereby incorporated by reference with no later amendments or editions.
- b) All real estate appraisers licensed under the Act shall practice in accordance with USPAP except where the standards are contrary to Illinois law or public policy (USPAP, Jurisdictional Exception).
- c) All investigators, board members, auditors and examiners employed or retained by the Division are exempt from the requirements of USPAP Standard 3 while performing an investigation, audit or examination. If the Division files a formal complaint, a USPAP Standard 3 review will be utilized by the Division when available, except the Division may limit the scope of Standard 3 to exclude valuation. USPAP Standard 3 review shall be provided in cases in which an existing appraisal report is central to the proceeding.

(Source: Amended at 38 Ill. Reg. _____, effective _____)

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

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

<u>Section Numbers:</u>	<u>Proposed Action:</u>
611.101	Amend
611.102	Amend
611.111	Amend
611.112	Amend
611.232	Amend
611.325	Amend
611.351	Amend
611.355	Amend
611.356	Amend
611.360	Amend
611.381	Amend
611.382	Amend
611.526	Amend
611.528	New
611.531	Amend
611.532	Amend
611.533	Amend
611.611	Amend
611.612	Amend
611.645	Amend
611.720	Amend
611.802	Amend
611.805	Amend
611.883	Amend
611.885	Amend
611.901	Amend
611.902	Amend
611.903	Amend
611.904	Amend
611.1007	Amend
611.1051	New
611.1052	New
611.1053	New
611.1054	New

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611.1055	New
611.1056	New
611.1057	New
611.1058	New
611.1059	New
611.1060	New
611.1061	New
611.Appendix A	Amend
611.Appendix G	Amend
611.Appendix H	Amend
611.Table Z	Amend

- 4) Statutory authority: 415 ILCS 5/7.2, 17, 17.5, and 27
- 5) A Complete description of the subjects and issues involved: The following briefly describes the subjects and issues involved in the docket R14-8 rulemaking. A comprehensive description is contained in the Board's opinion and order of November 7, 2013, proposing amendments in docket R14-8, 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 R14-8 and time period that is involved in this proceeding is the following:

R14-8	Federal SDWA amendments that occurred during the period January 1, 2013 through June 30, 2013.
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The following table briefly summarizes the federal actions in the update period:

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February 13, 2013 (78 Fed. Reg. 10270)	USEPA revised the total coliform rule, which USEPA adopted in 1989. <i>See</i> 54 Fed. Reg. 27544 (June 29, 1989). The RTCR replaces the former maximum contaminant level (MCL) for total coliforms, fecal coliforms, and <i>Escherichia coli</i> (<i>E. coli</i>) with the requirement that the supplier assess the problem and take corrective action upon detection of contamination. Ancillary amendments update associated microbiological analytical methods and public notice requirements.
May 31, 2012 (78 Fed. Reg. 32558)	USEPA approved alternative equivalent analytical methods for use in demonstrating compliance with the drinking water standards. USEPA approved 84 equivalent methods for analyzing a variety of physical parameters and inorganic, radiological, and microbiological contaminants.
June 21, 2012 (78 Fed. Reg. 37463)	USEPA corrected errors in the May 31, 2013 summary approval of alternative equivalent methods.

In addition to the federal actions that fall within the timeframe of this R14-8, the Board has updated incorporations by reference to federal regulations and included a limited number of corrections and clarifying amendments that are not directly derived from the instant federal amendments.

Tables appear in the Board's opinion and order of November 7, 2013 in docket R14-8 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 November 7, 2013 opinion and order in docket R14-8.

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

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not subject to First Notice or to Second Notice review by the Joint Committee on Administrative Rules (JCAR).

- 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) Do these proposed rulemaking contain incorporations by reference? Yes. The amendments include incorporation by reference to several new analytical methods and update several incorporations by reference to federal regulations to the latest version available.
- 10) Statement of statewide policy objectives: These proposed amendments do not create or enlarge a state mandate, as defined in Section 3(b) of the State Mandates Act. [30 ILCS 805/3(b) (2012)].
- 11) Are there any other rulemakings pending on this Part? No
- 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 R14-8 and be addressed to:

John T. Therriault, Clerk
Illinois Pollution Control Board
State of Illinois Center, Suite 11-500
100 W. Randolph St.
Chicago, IL 60601

Please direct inquiries to the following person and reference docket R14-8:

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

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Phone: 312-814-6924

E-mail: mccambm@ipcb.state.il.us

Request copies of the Board's opinion and order at 312-814-3620, or download a copy from the Board's Website at <http://www.ipcb.state.il.us>.

13) Initial regulatory flexibility analysis:

- A) Types of small businesses, small municipalities, and not-for-profit corporations affected: This rulemaking may affect those small businesses, small municipalities, and not-for-profit corporations that own or operate a public water supply. These proposed amendments do not create or enlarge a state mandate, as defined in Section 3(b) of the State Mandates Act. [30 ILCS 805/3(b) (2012)].
- B) Reporting, bookkeeping or other procedures required for compliance: The existing rules and proposed amendments require extensive reporting, bookkeeping and other procedures, including the preparation of reports, water analyses, and maintenance of operating records. These proposed amendments do not create or enlarge a state mandate, as defined in Section 3(b) of the State Mandates Act. [30 ILCS 805/3(b) (2012)].
- C) Types of professional skills necessary for compliance: Compliance with the existing rules and proposed amendments may require the services of an attorney, certified public accountant, chemist, and registered professional engineer. These proposed amendments do not create or enlarge a state mandate, as defined in Section 3(b) of the State Mandates Act. [30 ILCS 805/3(b) (2012)].

14) Regulatory agenda on which this rulemaking was summarized: 37 Ill. Reg. 9060, 9105, June 28, 2013.

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

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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

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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

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

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611.380	General Requirements
611.381	Analytical Requirements
611.382	Monitoring Requirements
611.383	Compliance Requirements
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611.490	Certified Laboratories
611.491	Laboratory Testing Equipment
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611.510	Special Monitoring for Unregulated Contaminants (Repealed)

SUBPART L: MICROBIOLOGICAL MONITORING
AND ANALYTICAL REQUIREMENTS

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611.521	Routine Coliform Monitoring
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611.531	Analytical Requirements
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SUBPART M: TURBIDITY MONITORING AND ANALYTICAL REQUIREMENTS

Section

611.560	Turbidity
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SUBPART N: INORGANIC MONITORING AND ANALYTICAL REQUIREMENTS

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611.591	Violation of a State MCL
611.592	Frequency of State Monitoring
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611.608	Additional Optional Monitoring
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611.630	Special Monitoring for Sodium
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611.648	Phase II, Phase IIB, and Phase V Synthetic Organic Contaminants
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611.657	Analytical Methods for 36 Contaminants (Repealed)
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611.680	Sampling, Analytical, and other Requirements (Repealed)
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SUBPART R: ENHANCED FILTRATION AND DISINFECTION:
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611.804	Treatment Technique Violations for GWS Suppliers
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611.831	Monthly Operating Report
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611.833	Cross Connection Reporting
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611.856	Fluoride Notice (Repealed)
611.858	Fluoride Secondary Standard (Repealed)
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611.884	Required Additional Health Information
611.885	Report Delivery and Recordkeeping

SUBPART V: PUBLIC NOTIFICATION OF DRINKING WATER VIOLATIONS

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611.901	General Public Notification Requirements
611.902	Tier 1 Public Notice: Form, Manner, and Frequency of Notice
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611.905	Content of the Public Notice
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SUBPART X: ENHANCED FILTRATION AND DISINFECTION –
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611.1000	General Requirements
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- 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
- 611.1011 Treatment Technique Requirements: Filtered System Additional Cryptosporidium Treatment Requirements
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- 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
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<u>611.1056</u>	<u>Routine Monitoring Requirements for Subpart B Systems that Serve 1,000 or Fewer People</u>
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<u>611.1060</u>	<u>Violations</u>
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611.APPENDIX B	Percent Inactivation of G. Lamblia Cysts
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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
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611.TABLE H	CT Values (mg·min/ℓ) for Cryptosporidium Inactivation by Chlorine Dioxide
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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].

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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; amended in R12-4 at 36 Ill. Reg. 7110, effective April 25, 2012; amended in R14-8 at 38 Ill. Reg. _____, effective _____.

SUBPART A: GENERAL

Section 611.101 Definitions

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")). "Agency" will mean 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,

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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) ~~(2013)~~(2009). 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 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

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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 [\(2013\)](#) 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."

"Clean compliance history" means, for the purposes of Subpart AA, a record of no MCL violations under Section 611.325; no monitoring violations under Subpart L or Subpart AA; and no coliform treatment technique trigger exceedances or treatment technique violations under Subpart AA.

"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. (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 [\(2013\)](#)~~(2010)~~.

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

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"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 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.

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"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.

"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:

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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 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.

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"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.

"E. coli" means Escherichia coli, a species of bacteria used as a specific indicator of fecal contamination and potential harmful pathogens.

BOARD NOTE: Derived from the discussion at 78 Fed. Reg. 10270, 10271 (Feb. 13, 2013).

"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.

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

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"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) (2013)~~(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.

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

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"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) [\(2013\)](#)~~(2010)~~.

"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\(a\)\(2\)\(C\)](#)~~611.531(e)~~.

"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) [\(2013\)](#)~~(2010)~~.

"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 sequence as follows:

$$B = \Sigma(A_i)$$

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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 [\(2013\)](#) ~~(2010)~~.

"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) [\(2013\)](#)~~(2010)~~.

"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) [\(2013\)](#)~~(2010)~~.

"ℓ" means "liter."

"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.

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"Level 1 assessment" means an evaluation to identify the possible presence of sanitary defects, defects in distribution system coliform monitoring practices, and (when possible) the likely reason that the system triggered the assessment. A level 1 assessment is conducted by the system operator or owner. Minimum elements include review and identification of atypical events that could affect distributed water quality or indicate that distributed water quality was impaired; changes in distribution system maintenance and operation that could affect distributed water quality (including water storage); source and treatment considerations that bear on distributed water quality, when appropriate (e.g., whether a groundwater system is disinfected); existing water quality monitoring data; and inadequacies in sample sites, sampling protocol, and sample processing. The supplier must conduct the assessment consistent with any Agency-imposed permit conditions that tailor specific assessment elements with respect to the size and type of the system and the size, type, and characteristics of the distribution system.

"Level 2 assessment" means an evaluation to identify the possible presence of sanitary defects, defects in distribution system coliform monitoring practices, and (when possible) the likely reason that the system triggered the assessment. A level 2 assessment provides a more detailed examination of the system (including the system's monitoring and operational practices) than does a level 1 assessment through the use of more comprehensive investigation and review of available information, additional internal and external resources, and other relevant practices. A level 2 assessment is conducted by a person approved by a SEP granted by the Agency pursuant to Section 611.130, and that person may include the system operator. Minimum elements include review and identification of atypical events that could affect distributed water quality or indicate that distributed water quality was impaired; changes in distribution system maintenance and operation that could affect distributed water quality (including water storage); source and treatment considerations that bear on distributed water quality, when appropriate (e.g., whether a groundwater system is disinfected); existing water quality monitoring data; and inadequacies in sample sites, sampling protocol, and sample processing. The supplier must conduct the assessment consistent with any Agency-imposed permit conditions that tailor specific assessment elements with respect to the size and type of the system and the size, type, and characteristics of the distribution system. The supplier must comply with any expedited actions or additional actions required by a SEP granted by the Agency pursuant to Section 611.130 in the instance of an E. coli MCL violation.

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"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 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

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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) ~~(2013)~~(2010).

"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: ~~Derived~~Drawn from 40 CFR 141.23(b)(2) and 141.24(f)(2) note ~~(2013)~~(2010).

"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 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

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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.

"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.

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"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 "Agency" in this Section.

"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

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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 ~~(2013)(2010)~~. 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.

BOARD NOTE: Derived from 40 CFR 141.23(b)(9), 141.24(f)(11)(ii), and 141.24(f)(11)(iii) ~~(2013)(2010)~~.

"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

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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 defect" means a defect that could provide a pathway of entry for microbial contamination into the distribution system or which is indicative of a failure or imminent failure in a barrier to microbial contamination that is already in place.

"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) (2013)(2010).

"Seasonal system" means a non-CWS that is not operated as a PWS on a year-round basis and which starts up and shuts down at the beginning and end of each operating season.

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

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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) (~~2011~~(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) (~~2013~~(2010)). 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 contaminants designated as "SOCs," or "synthetic organic chemicals" or "synthetic organic contaminants," in USEPA regulatory discussions and guidance

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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 ~~(2013)(2010)~~ 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) ~~(2011)(2006)~~).

"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 time in the distribution system, and at points in the distribution system that are

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representative of high TTHM and HAA5 concentrations throughout the distribution system.

BOARD NOTE: Derived from 40 CFR 141.601(a) and (b) ~~(2013)(2010)~~.

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

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surface water."

BOARD NOTE: Derived from 40 CFR 141.23(b)(2) and 141.24(f)(2) note ~~(2013)~~(2010).

"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 ~~(2013)~~(2010).

"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 [\(2013\)\(2010\)](#).

"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) ~~(2013)(2010)~~. 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 [\(2013\)\(2010\)](#).

(Source: Amended at 38 Ill. Reg. _____, effective _____)

Section 611.102 Incorporations by Reference

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

"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).

"Charm Fast Phage" means "Fast Phage Test Procedure. Presence/Absence for Coliphage in Ground Water with Same Day Positive Prediction," version 009 (Nov. 2012), available from Charm Sciences, Inc.

"Colisure Test" means "Colisure Presence/Absence Test for Detection and Identification of Coliform Bacteria and Escherichia Coli in Drinking Water," available from IDEXX Laboratories, Inc~~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

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Identification of Coliform Bacteria and Escherichia coli in Finished Waters," available from EMD [Millipore Chemicals Inc.](#)

"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

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for Public Water Systems using Surface Water Sources," March 1991, available from USEPA, NSCEP.

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

"Hach SPDANS 2 Method 10225" means "Hach Company SPADNS 2 (Arsenic-free) Fluoride Method 10225 – Spectrophotometric Measurement of Fluoride in Water and Wastewater," available from the Hach Co.

"Hach TNTplus 835/836 Method 10206" means "Hach Company TNTplus 835/836 Nitrate Method 10206 – Spectrophotometric Measurement of Nitrate in Water and Wastewater," available from the Hach Co.

"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, available from 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.

"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.

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"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.

"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.

"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 "[Lead in Drinking Water by Differential](#)

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Pulse Anodic Stripping Voltammetry, Method Number 1001," available from Palintest, Ltd. or the Hach Company.

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

"Readycult® 2000" 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 MilliporeChemicals 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 MilliporeChemicals Inc.

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

"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 Thermo ScientificAnalytical Technology, Inc.

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

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

"USEPA Asbestos Method 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 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.

"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.

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"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 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 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, [September 2009](#)~~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 the methods listed as available from the USEPA, Office of Ground Water and Drinking Water (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), [524.4](#), 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) (Methods 508A (rev. 1.0) and 515.1 (rev. 4.0)); "Methods for the

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Determination of Organic Compounds in Drinking Water – Supplement I," July 1990 (Methods 547, 550, and 550.1); "Methods for the Determination of Organic Compounds in Drinking Water – Supplement II," August 1992 (Methods 548.1 (rev. 1.0), 552.1 (rev. 1.0), and 555 (rev. 1.0)); and "Methods for the Determination of Organic Compounds in Drinking Water – Supplement III," August 1995 (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" means "Radiochemistry Procedures Manual," EPA 520/5-84/006, December 1987. Available from NTIS.

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

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- 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," 16th Edition, 1985 \(referred to as "Standard Methods, 16th ed."\). See the methods listed separately for the same references under American Waterworks Association.](#)

"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.

"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.

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"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 (superseded) and ASTM Method D6503-99. 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.

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

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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," 16th Edition, 1985 (referred to as "Standard Methods, 16th ed.").

Method 907A, Heterotrophic Plate Count, Pour Plate Method, referenced in Section 611.213.

"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-~~SiO₂Si~~ C, Silica, Molybdosilicate Method, referenced in Section 611.611.

Method 4500-~~SiO₂Si~~ D, Silica, Heteropoly Blue Method, referenced in Section 611.611.

Method 4500-~~SiO₂Si~~ 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 B, Disinfection By-Products: Haloacetic Acids and Trichlorophenol, Micro Liquid-Liquid Extraction Gas Chromatographic Method, referenced in Section 611.381. 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 ~~B~~, Glyphosate Herbicide ~~(Proposed)~~, Liquid Chromatographic Post-Column Fluorescence 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 9060 A, Samples, Collection, referenced in Section 611.1052.](#)

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,~~ and 611.1052.

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,~~ and 611.1052.

Method 9221 D, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Presence-Absence (P-A) Coliform Test, referenced in Sections 611.526 and 611.1052.

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.

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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, ~~and~~ 611.1052.

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, ~~and~~ 611.1052.

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.

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"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.

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.

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

Method 3125, Metals by Inductively Coupled Plasma/Mass Spectrometry, referenced in Section 611.720.

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.~~

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.

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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.

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.

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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-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 B, Disinfection By-Products: Haloacetic Acids and Trichlorophenol, Micro Liquid-Liquid

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Extraction Gas Chromatography Method, referenced in Section 611.381.

~~Method 6610~~, Method 6610 B, Carbamate Pesticide Method, High-Performance Liquid Chromatographic 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 6651 B, Glyphosate Herbicide, Liquid Chromatographic Post-Column Fluorescence 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.

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.

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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.

[Method 9060 A, Samples, Collection, referenced in Section 611.1052.](#)

[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, [and 611.1052.](#)

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

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Bacterial Density, referenced in Sections 611.526, ~~and~~ 611.531, and 611.1052.

Method 9221 D, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Presence-Absence (P-A) Coliform Test, referenced in Section 611.526 and 611.1052.

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, and 611.1052.

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"

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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, and 611.1052.

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.

"Standard Methods for the Examination of Water and Wastewater," 22nd Edition, 2012 (referred to as "Standard Methods, 22nd ed."). See the methods listed separately for the same references under American Waterworks Association.

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.

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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-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 Eluant 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.

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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.

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.

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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.

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.

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

Method 6610 B, Carbamate Pesticide Method, High-Performance Liquid Chromatographic 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 6651 B, Glyphosate Herbicide, Liquid Chromatographic Post-Column Fluorescence 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.

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-H³ B, Tritium, Liquid Scintillation Spectrometric Method, referenced in Section 611.720.

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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.

Method 9060 A, Samples, Collection, referenced in Section 611.1052.

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.

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Method 9221 B, Multiple-Tube Fermentation Technique for Members of the Coliform Group, Standard Total Coliform Fermentation Technique, referenced in Sections 611.526, 611.531, and 611.1052.

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 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 and 611.1052.

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 B, Chromogenic Substrate Coliform Test (also referred to as the variations "Autoanalysis Colilert

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System" and "Colisure Test"), referenced in Sections 611.526, 611.802, 611.1004, and 611.1052.

BOARD NOTE: See the Board note appended to Standard Methods Online in this Section about methods that appear in Standard Methods, 22nd 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.

~~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 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.

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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 D859-10, "Standard Test Method for Silica in Water," approved 2010, 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.

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 D1067-06 B, "Standard Test Methods for Acidity or Alkalinity in Water," "Test Method B – Electrometric or Color-Change Titration," approved in 2006, referenced in Section 611.611.

[ASTM Method D1067-11 B, "Standard Test Methods for Acidity or Alkalinity in Water," "Test Method B – Electrometric or Color-Change Titration," approved in 2011, referenced in Section 611.611.](#)

ASTM Method D1125-95 (1999) A, "Standard Test Methods for Electrical Conductivity and Resistivity of Water," "Test Method A

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– 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 D1179-10 B, "Standard Test Methods for Fluoride in Water," "Test Method B – Ion Selective Electrode," approved 2010, 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 1996, referenced in Section 611.381.

ASTM Method D1253-03, "Standard Test Method for Residual Chlorine in Water," approved 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.

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.

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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 D1293-12, "Standard Test Methods for pH of Water," approved 2012, 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 1988, referenced in Section 611.720.

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ASTM Method ~~D2460-97~~D2460-90, "Standard Test Method for Radionuclides of Radium in Water," approved ~~1997~~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-~~97~~94, "Standard Test Methods for Microquantities of Uranium in Water by Fluorometry, ~~"Test Method A – Direct Fluorometric" & "Test Method B – Extraction,"~~ approved ~~June 15, 1997~~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, "Standard Test Method for Radium-226 in Water," approved 1997, referenced in Section 611.720.

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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.

ASTM Method D3649-06, "Standard Test Method for High-Resolution Gamma-Ray Spectrometry of Water," approved 2006, referenced in Section 611.720.

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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 ~~D3972-97~~[D3972-90](#), "Standard Test Method for Isotopic Uranium in Water by Radiochemistry," approved ~~in 1997~~[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.

[ASTM Method D3972-09, "Standard Test Method for Isotopic Uranium in Water by Radiochemistry," approved 2009, 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, "Standard Test Method for Low-Level Iodine-131 in Water," approved 1993, referenced in Section 611.720.

ASTM Method D4785-98, "Standard Test Method for Low-Level Iodine-131 in Water," approved 1998, 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, "Standard Test Method for Trace Uranium in Water by Pulsed-Laser Phosphorimetry," approved 1997, 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 (2003), "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 D5673-10, "Standard Test Method for Elements in Water by Inductively Coupled Plasma – Mass Spectrometry," approved 2010, referenced in Section 611.720.

ASTM Method D6239-09, "Standard Test Method for Uranium in Drinking Water by High-Resolution Alpha-Liquid-Scintillation Spectrometry," approved 2009, 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.

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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.

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 D6919-09, "Standard Test Method for Determination of Dissolved Alkali and Alkaline Earth Cations and Ammonium in Water and Wastewater by Ion Chromatography," approved 2009, 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.

BOARD NOTE: The most recent version of ASTM methods are available for paid download from the ASTM at www.astm.org. Note that the most recent version of an ASTM method may not be the version approved for use by USEPA and incorporated by reference in subsection (b) of this Section.

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 (2011), 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 (2011), referenced in Section

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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 [and 611.1052](#) (also available from USEPA, Water Resource Center).

["Fast Phage Test Procedure. Presence/Absence for Coliphage in Ground Water with Same Day Positive Prediction," version 009 \(Nov. 2012\) \(referred to as "Charm Fast Phage Test"\), referenced in Section 611.802.](#)

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.

"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 ~~Millipore Chemicals Inc.~~ (division ~~an affiliate~~ of Merck KGaA, Darmstadt, Germany), ~~480 S. Democrat Road, Gibbstown, NJ 08027-1297. (800-222-0342/e-mail: adellenbusch@emscience.com). 290~~ [Concord Road, Billerica, MA 01821 \(800-645-5476 or 781-533-6000\).](#)

"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, and 611.1052.](#)

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"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 and 611.1052.

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 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/Internet address: www.hach.com).

"Lead in Drinking Water by Differential Pulse Anodic Stripping Voltammetry," Method 1001, August 1999, referenced in Section 611.611.

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"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 [Sections 611.802 and 611.1052](#) (also available from USEPA, Water Resource Center).

"Fluoride, USEPA SPADNS 2 Method 10225," revision 2.0, January 2011 (referred to as "Hach SPADNS 2 Method 10225"), referenced in Section 611.611.

"Hach Company TNTplus 835/836 Nitrate Method 10206 – Spectrophotometric Measurement of Nitrate in Water and Wastewater," revision 2.0, January 2011 (referred to as "Hach TNTplus 835/836 Method 10206"), referenced in Section 611.611.

IDEXX Laboratories, Inc., One IDEXX Drive, Westbrook, Maine 04092 (800-321-0207).

["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.](#)

"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.

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).

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"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.

NEMI. National Environmental Method Index (on-line at www.nemi.gov).

AMI Turbiwell Method, "Continuous Measurement of Turbidity Using a SWAN AMI Turbiwell Turbidimeter," August 2009. See also SWAN Analytische Instrumente AG.

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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," [February 2009](#), 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).

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).

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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.

Kelada 01, "Kelada Automated Test Methods for Total Cyanide, Acid Dissociable Cyanide, and Thiocyanate," Revision 1.2, August 2001, EPA 821/B-01-009, 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.

"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.

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, 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), and 515.3 (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

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Determination of Organic Compounds in Drinking Water – 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) (2011): "This document contains other analytical test

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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."

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, referenced in Section 611.611.

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 NEMI.

Standard Methods Online, available online from the Standard Methods Organization at www.standardmethods.org.

Method 3112 B-09, Metals by Cold-Vapor Atomic Absorption Spectrometry, Cold-Vapor Atomic Absorption Spectrometric Method, referenced in Section 611.611.

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Method 3113 B-04, Metals by Electrothermal Atomic Absorption Spectrometry, Electrothermal Atomic Absorption Spectrometric Method, referenced in Sections 611.611 and 611.612.

~~Method 3114 B-04, Metals by Hydride Generation/Atomic Absorption Spectrometry, Manual Hydride Generation/Atomic Absorption Spectrometric Method, referenced in Section 611.611.~~

~~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.

BOARD NOTE: Where, in appendix A to subpart C of 40 CFR 141 (~~20122011~~), 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 or 22nd ed., the Board cites only to Standard Methods, 21st or 22nd 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 or 22nd edition, are the following: 2320 B-97 (for alkalinity), 3112 B-09 (for mercury), 3114 B-09 (for arsenic and selenium), 4500-P E-99 and 4500-P F-99; (for orthophosphate); 4500-SO₄⁻² C-97, 4500-SO₄⁻² D-97, 4500-SO₄⁻² E-97, and 4500-SO₄⁻² F-97 (for sulfate); 6640 B-01 (for 2,4-D, 2,4,5-TP (silvex) (dalapon, dinoseb, pentachlorophenol, and picloram); 5561 B-00 (for glyphosate); and 9223 B-97 (for E. coli). 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 version of the method that is incorporated by reference is acceptable from either source.

SWAN Analytische Instrumente AG, Studbachstrasse 13, CH-8340, Hinwil, Switzerland.

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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.

Systea Scientific LLC, 900 Jorie Blvd., Suite 35, Oak Brook, IL 60523.

Systea Easy (1-Reagent), "Systea Easy (1-Reagent) Nitrate Method," February 2009, referenced in Section 611.611. See also NEMI.

Thermo Scientific, 166 Cummings Center, Beverly, MA 01915 ([800-225-1480](tel:800-225-1480) or www.thermo.com).

Orion Method AQ4500, "Determination of Turbidity by LED Nephelometry," May 2009, referenced in Section 611.531. See also NEMI.

[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.](#)

[USDHS, STD. United States Department of Homeland Security, Science and Technology Directorate \(formerlyUSDOE, EML. United States Department of Energy, Environmental Measurements Laboratory\), U.S. Department of Energy, 376 Hudson Street, New York, NY 10014-3621 currently available on-line in the 28th edition only, at \[www.nbl.doe.gov/EML_Legacy_Website/procman.htm\]\(http://www.nbl.doe.gov/EML_Legacy_Website/procman.htm\).](#)

"EML Procedures Manual," HASL 300, 27th Edition, Volume 1, 1990 (referred to as "EML Procedures Manual (27th ed.)"), referenced in Section 611.720.

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"EML Procedures Manual," HASL 300, 28th ed., 1997 (referred to as "EML Procedures Manual (28th ed.)"), referenced in Section 611.720.

BOARD NOTE: Although only the 28th edition is currently available, USEPA has approved use of the methods from the 27th edition also. The Board has retained the reference to the 27th edition for the benefit of any laboratory that may be using that edition.

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. 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," EPA-R4-73-014, May 1973, referenced in Section 611.720. See also NTIS.

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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.

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.

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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.

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.

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USEPA OGWDW Methods, Method 523, ver. 1.0, "Determination of Triazine Pesticides and Other Degradates in Drinking Water by Gas Chromatography/Mass Spectrometry (GC/MS)," February 2011, EPA 815/R-11/002, referenced in Section 611.645. 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), and 515.3 (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) (2011): "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, 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. 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, referenced in Section 611.381. See also USEPA, NSCEP.

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," USEPA, June 2002, EPA 815/R-03/007, referenced in Section 611.381. See also NTIS and USEPA, NSCEP.

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," USEPA, May 2005, EPA 815/R-05/008, 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.

USEPA OGWDW Methods, Method 515.4, rev. 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"), referenced in Section 611.645.

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USEPA OGWDW Methods, Method 523, ver. 1.0, "Determination of Triazine Pesticides and Other Degradates in Drinking Water by Gas Chromatography/Mass Spectrometry (GC/MS)," February 2011, EPA 815/R-11/002, referenced in Section 611.645. See also USEPA, [NSCEPOGWDW](#).

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 524.4, "Measurement of Purgeable Organic Compounds in Water by Gas Chromatography/Mass Spectrometry Using Nitrogen Purge Gas," May 2013, EPA 815/R-13/002, referenced in Sections 611.381 and 611.645.](#)

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, NSCEP.

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," USEPA, 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 and 611.645. See also USEPA, NSCEP.

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USEPA OGWDW Methods, Method 1622 (05), "Method 1622: Cryptosporidium in Water by Filtration/IMS/FA," December 2005, EPA 815/R-05/001, 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, 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, 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, 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, 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, referenced in Sections 611.1007.

[USEPA OGWDW Methods, Method 1623.1, "Method 1623.1: Cryptosporidium and Giardia in Water by Filtration/IMS/FA," January 2012, EPA 816/R-12/001, referenced in Section 611.1004.](#)

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.

USEPA, ORD. USEPA, Office of Research and Development, National Exposure Research Laboratory, Microbiological & Chemical Exposure Assessment Research Division (accessible on-line and available by

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download from <http://www.epa.gov/nerlcwww/ordmeth.htm>).

USEPA NERL Method 200.5, rev. 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, referenced in Sections 611.611 and 611.612.

USEPA NERL Method 415.3, rev. 1.1, "Determination of Total Organic Carbon and Specific UV Absorbance at 254 nm in Source Water and Drinking Water," ~~September 2009~~[February 2005](#), EPA 600/R-05/055, 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, [referenced in Section 611.645](#).

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, referenced in [Sections Section 611.802 and 611.1052](#). See also Charm Sciences, Inc.

m-ColiBlue24 Test, "Total Coliforms and E. coli Membrane Filtration Method with m-ColiBlue24® Broth," Method No. 10029, rev. 2, August 17, 1999, referenced in [SectionsSection 611.802 and 611.1052](#). See also 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 is an approved variation of Standard Methods, Method 9230 C,

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"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 (accessible on-line and available by download from <http://www.epa.gov/nerlcwww/1601ap01.pdf>), referenced in Section 611.802.

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 (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 (accessible on-line and available by download from <http://www.epa.gov/nerlcwww/1604sp02.pdf>), referenced in ~~Sections~~Section 611.802 and 611.1052.

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.

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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.

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," 1977.

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.

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R-1182-76, referenced in Section 611.720.

BOARD NOTE: USGS methods are freely available for download in an electronic format from the USGS Publications Warehouse, at pubs.er.usgs.gov/. Sections 611.611 and 611.720 do not distinguish the volume in which each USGS method appears. The distinction as to which volume where a particular method appears is made in this incorporation by reference.

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.

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

40 CFR 3.2 (~~2013~~~~2012~~) (How Does This Part Provide for Electronic Reporting?), referenced in Section 611.105.

40 CFR 3.3 (~~2013~~~~2012~~) (What Definitions Are Applicable to This Part?), referenced in Section 611.105.

40 CFR 3.10 (~~2013~~~~2012~~) (What Are the Requirements for Electronic Reporting to EPA?), referenced in Section 611.105.

40 CFR 3.2000 (~~2013~~~~2012~~) (What Are the Requirements Authorized State, Tribe, and Local Programs' Reporting Systems Must Meet?), referenced in Section 611.105.

40 CFR 136.3(a) (~~2013~~~~2012~~), referenced in Section 611.1004.

Appendix B to 40 CFR 136 (2012), referenced in Sections 611.359, 611.609, and 611.646.

40 CFR 142.20(b)(1) (~~2013~~~~2012~~), referenced in Section 611.112.

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Subpart G of 40 CFR 142 (2013), referenced in Section 611.113.

- d) This Part incorporates no later amendments or editions.

(Source: Amended at 38 Ill. Reg. _____, effective _____)

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 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 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 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.
- 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,

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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.
 - 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

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- 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 ~~MCLs~~MCL for total coliforms and E. coli. Until March 31, 2016, 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. Effective March 31, 2016, when the total coliform MCL is no longer effective, the Board can no longer grant relief from the total coliform MCL.
 - BOARD NOTE: As provided in Section 611.131(c)(1) and 40 CFR 142.304(a), a small system variance is not available for rules that address microbial contaminants, which include Subparts B, R, S, X, Z, and AA of this Part.
 - 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).

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- 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 ~~(2013)(2010)~~, from section 1415(a)(1)(A) and (a)(1)(B) of the SDWA (42 USC 300g-4(a)(1)(A) and (a)(1)(B) ~~(2011)~~) and from the "Guidance Manual for Filtration and Disinfection," incorporated by reference in Section 611.102 and available from USEPA, NSCEP. USEPA has established a procedure at 40 CFR 142.23 ~~(2013)(2010)~~ to review and potentially modify or nullify state 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.

(Source: Amended at 38 Ill. Reg. _____, effective _____)

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 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 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 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 treatment technique requirement, or from both, 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

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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:
- 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

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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 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

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(2011).

- g) The Board will not grant relief from any of the following:
- 1) From the ~~MCLs~~MCL for total coliforms and E. coli. Until March 31, 2016, 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. Effective March 31, 2016, when the total coliform MCL is no longer effective, the Board can no longer grant relief from the total coliform MCL.
- BOARD NOTE: As provided in Section 611.131(c)(1) and 40 CFR 142.304(a), a small system variance is not available for rules that address microbial contaminants, which include Subparts B, R, S, X, Z, and AA of this Part.
- 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 ~~(2013)(2010)~~. USEPA has established a procedure at 40 CFR 142.23 ~~(2013)(2010)~~ to review and potentially modify or nullify state 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.

(Source: Amended at 38 Ill. Reg. _____, effective _____)

SUBPART B: FILTRATION AND DISINFECTION

Section 611.232 Site-Specific Conditions

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The Agency must consider the following site specific criteria in determining whether to require filtration pursuant to Section 611.211:

- a) Disinfection.
 - 1) The supplier must meet the requirements of Section 611.241(a) at least 11 of the 12 previous months that the system served water to the public, on an ongoing basis, unless the system fails to meet the requirements during 2 of the 12 previous months that the system served water to the public, and the Agency determines that at least one of these failures was caused by circumstances that were unusual and unpredictable.
 - 2) The supplier must meet the following requirements at the times specified for each:
 - A) The requirements of Section 611.241(b)(1) at all times the system serves water to the public; and
 - B) The requirements of Section 611.241(b)(2) at all times the system serves water to the public, unless the Agency determines that any such failure was caused by circumstances that were unusual and unpredictable.
 - 3) The supplier must meet the requirements of Section 611.241(c) at all times the system serves water to the public, unless the Agency determines that any such failure was caused by circumstances that were unusual and unpredictable.
 - 4) The supplier must meet the requirements of Section 611.241(d) on an ongoing basis, unless the Agency determines that failure to meet these requirements was not caused by a deficiency in treatment of the source water.
- b) Watershed control program. The supplier must maintain a watershed control program that minimizes the potential for contamination by *Giardia lamblia* cysts and viruses in the source water.
 - 1) The Agency must determine whether the watershed control program is adequate to meet this goal. The Agency must determine the adequacy of a

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watershed control program based on the following:

- A) The comprehensiveness of the watershed review;
 - B) The effectiveness of the supplier's program to monitor and control detrimental activities occurring in the watershed; and
 - C) The extent to which the water supplier has maximized land ownership or controlled the land use within the watershed. At a minimum, the watershed control program must do the following:
 - i) Characterize the watershed hydrology and land ownership;
 - ii) Identify watershed characteristics and activities that may have an adverse effect on source water quality; and
 - iii) Monitor the occurrence of activities that may have an adverse effect on source water quality.
- 2) The supplier must demonstrate through ownership or written agreements with landowners within the watershed that it can control all human activities that may have an adverse impact on the microbiological quality of the source water. The supplier must submit an annual report to the Agency that identifies any special concerns about the watershed and how they are being handled; describes activities in the watershed that affect water quality; and projects what adverse activities are expected to occur in the future and describes how the supplier expects to address them. For systems using a groundwater source under the direct influence of surface water, an approved wellhead protection program may be used, if appropriate, to meet these requirements.
- c) On-site inspection. The supplier must be subject to an annual on-site inspection to assess the watershed control program and disinfection treatment process. The Agency must conduct the inspection. A report of the on-site inspection summarizing all findings must be prepared every year. The on-site inspection must demonstrate that the watershed control program and disinfection treatment process are adequately designed and maintained. The on-site inspection must include the following:

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- 1) A review of the effectiveness of the watershed control program;
 - 2) A review of the physical condition of the source intake and how well it is protected;
 - 3) A review of the supplier's equipment maintenance program to ensure there is low probability for failure of the disinfection process;
 - 4) An inspection of the disinfection equipment for physical deterioration;
 - 5) A review of operating procedures;
 - 6) A review of data records to ensure that all required tests are being conducted and recorded and disinfection is effectively practiced; and
 - 7) Identification of any improvements that are needed in the equipment, system maintenance, and operation or data collection.
- d) Absence of waterborne disease outbreaks. The PWS must not have been identified as a source of a waterborne disease outbreak, or if it has been so identified, the system must have been modified sufficiently to prevent another such occurrence.
- e) Total coliform MCL. The supplier must comply with the MCL for total coliforms in Section 611.325(a) and (b) and the MCL for *E. coli* in Section 611.325(c) at least 11 months of the 12 previous months that the system served water to the public, on an ongoing basis, unless the Agency determines that failure to meet this requirement was not caused by a deficiency in treatment of the source water.
- f) TTHM. The supplier must comply with the requirements for total trihalomethanes, haloacetic acids (five), bromate, chlorite, chlorine, chloramines, and chlorine dioxide in Subpart I of this Part.

BOARD NOTE: Derived from 40 CFR 141.71(b) [\(2013\)](#)~~(2003)~~.

(Source: Amended at 38 Ill. Reg. _____, effective _____)

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

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Section 611.325 Microbiological Contaminants

- a) Until March 31, 2016, the~~The~~ MCL is based on the presence or absence of total coliforms in a sample, rather than coliform density.
- 1) For a supplier that collects at least 40 samples per month, if no more than 5.0 percent of the samples collected during a month are total coliform-positive, the supplier is in compliance with the MCL for total coliforms.
 - 2) For a supplier that collects fewer than 40 samples per month, if no more than one sample collected during a month is a total coliform-positive, the supplier is in compliance with the MCL for total coliforms.
- b) Until March 31, 2016, any~~Any~~ fecal coliform-positive repeat sample or E. coli-positive repeat sample, or any total coliform-positive repeat sample following a fecal coliform-positive or E. coli-positive routine sample, constitutes a violation of the MCL for total coliforms. For purposes of the public notification requirements in Subpart V of this Part, this is a violation that may pose an acute risk to health.
- c) Beginning April 1, 2016, a supplier is in compliance with the MCL for E. coli for samples taken under the provisions of Subpart AA of this Part, unless any of the conditions identified in subsections (c)(1) through (c)(4) of this Section occur. For purposes of the public notification requirements in Subpart V of this Part, violation of the MCL may pose an acute risk to health.
- 1) The supplier has an E. coli-positive repeat sample following a total coliform-positive routine sample.
 - 2) The supplier has a total coliform-positive repeat sample following an E. coli-positive routine sample.
 - 3) The supplier fails to take all required repeat samples following an E. coli-positive routine sample.
 - 4) The supplier fails to test for E. coli when any repeat sample tests positive for total coliform.

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- de) Until March 31, 2016, a supplier must determine compliance with the MCL for total coliforms in subsections (a) and (b) of this Section for each month in which it is required to monitor for total coliforms. Beginning April 1, 2016, a supplier must determine compliance with the MCL for E. coli in subsection (c) of this Section for each month in which it is required to monitor for total coliforms.
- ed) BATs for achieving compliance with the MCL for total coliforms in subsections (a) and (b) of this Section and for achieving compliance with the maximum contaminant level for E. coli in subsection (c) of this Section are the following:
- 1) Protection of wells from fecal contamination ~~by coliforms~~ by appropriate placement and construction;
 - 2) Maintenance of RDC throughout the distribution system;
 - 3) Proper maintenance of the distribution system including appropriate pipe replacement and repair procedures, main flushing programs, proper operation and maintenance of storage tanks and reservoirs, cross-connection control, and continual maintenance positive water pressure in all parts of the distribution system;
 - 4) Filtration and disinfection of surface water, as described in Subparts ~~Subpart~~ B, R, X, and Z of this Part, or disinfection of groundwater, as described in Subpart S of this Part, using strong oxidants such as chlorine, chlorine dioxide, or ozone; or
 - 5) For systems using groundwater, compliance with the wellhead protection program, after USEPA approves the program.
- f) USEPA has identified, pursuant to 42 USC 300g-1, the technology, treatment techniques, or other means available identified in subsection (e) of this Section as affordable technology, treatment techniques, or other means available to suppliers serving 10,000 or fewer people for achieving compliance with the MCL for total coliforms in subsections (a) and (b) of this Section and for achieving compliance with the MCL for E. coli in subsection (c) of this Section.

BOARD NOTE: Derived from 40 CFR 141.63 (2013)(2002).

(Source: Amended at 38 Ill. Reg. _____, effective _____)

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SUBPART G: LEAD AND COPPER

Section 611.351 Applicability of Corrosion Control

- a) Corrosion control required. Suppliers must complete the applicable corrosion control treatment requirements described in Section 611.352 on or before the deadlines set forth in this Section.
 - 1) Large systems. Each large system supplier (one regularly serving more than 50,000 persons) must complete the corrosion control treatment steps specified in subsection (d) of this Section, unless it is deemed to have optimized corrosion control under subsection (b)(2) or (b)(3) of this Section.
 - 2) Medium-sized and small systems. Each small system supplier (one regularly serving 3,300 or fewer persons) and each medium-sized system (one regularly serving more than 3,300 up to 50,000 persons) must complete the corrosion control treatment steps specified in subsection (e) of this Section, unless it is deemed to have optimized corrosion control under one of subsections (b)(1), (b)(2), or (b)(3) of this Section.
- b) Suppliers deemed to have optimized corrosion control. A supplier is deemed to have optimized corrosion control, and is not required to complete the applicable corrosion control treatment steps identified in this Section, if the supplier satisfies one of the criteria specified in subsections (b)(1) through (b)(3) of this Section. Any such system deemed to have optimized corrosion control under this subsection, and which has treatment in place, must continue to operate and maintain optimal corrosion control treatment and meet any requirements that the Agency determines are appropriate to ensure optimal corrosion control treatment is maintained.
 - 1) Small- or medium-sized system meeting action levels. A small system or medium-sized system supplier is deemed to have optimized corrosion control if the system meets the lead and copper action levels during each of two consecutive six-month monitoring periods with monitoring conducted in accordance with Section 611.356.
 - 2) SEP for equivalent activities to corrosion control. The Agency must, by a

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SEP ~~issued~~granted pursuant to Section 611.110, deem any supplier to have optimized corrosion control treatment if it determines that the supplier has conducted activities equivalent to the corrosion control steps applicable under this Section. In making this determination, the Agency must specify the water quality control parameters representing optimal corrosion control in accordance with Section 611.352(f). A water supplier that is deemed to have optimized corrosion control under this subsection (b)(2) must operate in compliance with the Agency-designated optimal water quality control parameters in accordance with Section 611.352(g) and must continue to conduct lead and copper tap and water quality parameter sampling in accordance with Sections 611.356(d)(3) and 611.357(d), respectively. A supplier must provide the Agency with the following information in order to support an Agency SEP determination under this subsection (b)(2):

- A) The results of all test samples collected for each of the water quality parameters in Section 611.352(c)(3);
 - B) A report explaining the test methods the supplier used to evaluate the corrosion control treatments listed in Section 611.352(c)(1), the results of all tests conducted, and the basis for the supplier's selection of optimal corrosion control treatment;
 - C) A report explaining how the supplier has installed corrosion control and how the supplier maintains it to insure minimal lead and copper concentrations at consumer's taps; and
 - D) The results of tap water samples collected in accordance with Section 611.356 at least once every six months for one year after corrosion control has been installed.
- 3) Results less than practical quantitation level (PQL) for lead. Any supplier is deemed to have optimized corrosion control if it submits results of tap water monitoring conducted in accordance with Section 611.356 and source water monitoring conducted in accordance with Section 611.358 that demonstrate that for two consecutive six-month monitoring periods the difference between the 90th percentile tap water lead level, computed pursuant to Section 611.350(c)(3), and the highest source water lead concentration is less than the practical quantitation level for lead specified

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in Section 611.359(a)(1)(B)(i).

- A) Those systems whose highest source water lead level is below the method detection limit (MDL) may also be deemed to have optimized corrosion control under this subsection (b) if the 90th percentile tap water lead level is less than or equal to the PQL for lead for two consecutive six-month monitoring periods.
- B) Any water system deemed to have optimized corrosion control in accordance with this subsection (b) must continue monitoring for lead and copper at the tap no less frequently than once every three calendar years using the reduced number of sites specified in Section 611.356(c) and collecting the samples at times and locations specified in Section 611.356(d)(4)(D). Any such system that has not conducted a round of monitoring pursuant to Section 611.356(d) since September 30, 1997, must have completed a round of monitoring pursuant to this subsection (b) no later than September 30, 2000.
- C) Any water system deemed to have optimized corrosion control pursuant to this subsection (b) must notify the Agency in writing pursuant to Section 611.360(a)(3) of any upcoming long-term change in treatment or the addition of a new source, as described in that Section. The Agency must review and approve the addition of a new source or any long-term change in water treatment before the addition or long-term change is implemented by the water system.
- D) A supplier is not deemed to have optimized corrosion control under this subsection (b), and must implement corrosion control treatment pursuant to subsection (b)(3)(E) of this Section, unless it meets the copper action level.
- E) Any supplier triggered into corrosion control because it is no longer deemed to have optimized corrosion control under this subsection must implement corrosion control treatment in accordance with the deadlines in subsection (e) of this Section. Any such large system supplier must adhere to the schedule specified in that subsection (e) for a medium-sized system supplier,

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with the time periods for completing each step being triggered by the date the supplier is no longer deemed to have optimized corrosion control under this subsection (b).

- c) Suppliers not required to complete corrosion control steps for having met both action levels.
- 1) Any small system or medium-sized system supplier, otherwise required to complete the corrosion control steps due to its exceedence of the lead or copper action level, may cease completing the treatment steps after the supplier has fulfilled both of the following conditions:
 - A) It has met both the copper action level and the lead action level during each of two consecutive six-month monitoring periods conducted pursuant to Section 611.356; and
 - B) The supplier has submitted the results for those two consecutive six-month monitoring periods to the Agency.
 - 2) A supplier that has ceased completing the corrosion control steps pursuant to subsection (c)(1) of this Section (or the Agency, if appropriate) must resume completion of the applicable treatment steps, beginning with the first treatment step that the supplier previously did not complete in its entirety, if the supplier thereafter exceeds the lead or copper action level during any monitoring period.
 - 3) The Agency may, by SEP, require a supplier to repeat treatment steps previously completed by the supplier where it determines that this is necessary to properly implement the treatment requirements of this Section. Any such SEP must explain the basis for this decision.
 - 4) The requirement for any small- or medium-sized system supplier to implement corrosion control treatment steps in accordance with subsection (e) of this Section (including systems deemed to have optimized corrosion control under subsection (b)(1) of this Section) is triggered whenever any small- or medium-sized system supplier exceeds the lead or copper action level.
- d) Treatment steps and deadlines for large systems. Except as provided in

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subsections (b)(2) and (b)(3) of this Section, large system suppliers must complete the following corrosion control treatment steps (described in the referenced portions of Sections 611.352, 611.356, and 611.357) on or before the indicated dates.

- 1) Step 1: The supplier must have conducted initial monitoring (Sections 611.356(d)(1) and 611.357(b)) during two consecutive six-month monitoring periods on or before January 1, 1993.
 - 2) Step 2: The supplier must have completed corrosion control studies (Section 611.352(c)) on or before July 1, 1994.
 - 3) Step 3: The Agency must have approved optimal corrosion control treatment (Section 611.352(d)) by a SEP issued pursuant to Section 611.110 on or before January 1, 1995.
 - 4) Step 4: The supplier must have installed optimal corrosion control treatment (Section 611.352(e)) by January 1, 1997.
 - 5) Step 5: The supplier must have completed follow-up sampling (Sections 611.356(d)(2) and 611.357(c)) by January 1, 1998.
 - 6) Step 6: The Agency must have reviewed installation of treatment and approve optimal water quality control parameters (Section 611.352(f)) by July 1, 1998.
 - 7) Step 7: The supplier must operate in compliance with the Agency-specified optimal water quality control parameters (Section 611.352(g)) and continue to conduct tap sampling (Sections 611.356(d)(3) and 611.357(d)).
- e) Treatment steps and deadlines for small- and medium-sized system suppliers. Except as provided in subsection (b) of this Section, small- and medium-sized system suppliers must complete the following corrosion control treatment steps (described in the referenced portions of Sections 611.352, 611.356, and 611.357) by the indicated time periods.
- 1) Step 1: The supplier must conduct initial tap sampling (Sections 611.356(d)(1) and 611.357(b)) until the supplier either exceeds the lead

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action level or the copper action level or it becomes eligible for reduced monitoring under Section 611.356(d)(4). A supplier exceeding the lead action level or the copper action level must recommend optimal corrosion control treatment (Section 611.352(a)) within six months after the end of the monitoring period during which it exceeds one of the action levels.

- 2) Step 2: Within 12 months after the end of the monitoring period during which a supplier exceeds the lead action level or the copper action level, the Agency may require the supplier to perform corrosion control studies (Section 611.352(b)). If the Agency does not require the supplier to perform such studies, the Agency must, by a SEP issued pursuant to Section 611.110, specify optimal corrosion control treatment (Section 611.352(d)) within the appropriate of the following timeframes:
 - A) For medium-sized systems, within 18 months after the end of the monitoring period during which such supplier exceeds the lead action level or the copper action level; or
 - B) For small systems, within 24 months after the end of the monitoring period during which such supplier exceeds the lead action level or the copper action level.
- 3) Step 3: If the Agency requires a supplier to perform corrosion control studies under step 2 (subsection (e)(2) of this Section), the supplier must complete the studies (Section 611.352(c)) within 18 months after the Agency requires that such studies be conducted.
- 4) Step 4: If the supplier has performed corrosion control studies under step 2 (subsection (e)(2) of this Section), the Agency must, by a SEP issued pursuant to Section 611.110, approve optimal corrosion control treatment (Section 611.352(d)) within six months after completion of step 3 (subsection (e)(3) of this Section).
- 5) Step 5: The supplier must install optimal corrosion control treatment (Section 611.352(e)) within 24 months after the Agency approves such treatment.
- 6) Step 6: The supplier must complete follow-up sampling (Sections 611.356(d)(2) and 611.357(c)) within 36 months after the Agency

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approves optimal corrosion control treatment.

- 7) Step 7: The Agency must review the supplier's installation of treatment and, by a SEP issued pursuant to Section 611.110, approve optimal water quality control parameters (Section 611.352(f)) within six months after completion of step 6 (subsection (e)(6) of this Section).
- 8) Step 8: The supplier must operate in compliance with the Agency-approved optimal water quality control parameters (Section 611.352(g)) and continue to conduct tap sampling (Sections 611.356(d)(3) and 611.357(d)).

BOARD NOTE: Derived from 40 CFR 141.81 [\(2013\)\(2007\), as amended at 57782 \(October 10, 2007\)](#).

(Source: Amended at 38 Ill. Reg. _____, effective _____)

Section 611.355 Public Education and Supplemental Monitoring

A supplier that exceeds the lead action level based on tap water samples collected in accordance with Section 611.356 must deliver the public education materials required by subsection (a) of this Section in accordance with the requirements of subsection (b) of this Section. A supplier that exceeds the lead action level must sample the tap water of any customer who requests it in accordance with subsection (c) of this Section. A supplier must deliver a consumer notice of lead tap water monitoring results to persons who are served by the supplier at each site that the supplier has tested, as specified in subsection (d) of this Section.

- a) Content of written public education materials.
 - 1) Community water systems and non-transient non-community water systems. A CWS or NTNCWS supplier must include the following elements in printed materials (e.g., brochures and pamphlets) in the same order as listed in subsections (a)(1)(A) through (a)(1)(F) [of this Section](#). In addition, the supplier must include the language set forth in subsections (a)(1)(A), (a)(1)(B), and (a)(1)(F) of this Section in the materials, exactly as written, except for the text in brackets in these subsections, for which the supplier must include system-specific information. Any additional information presented by a supplier must be consistent with the information set forth in subsections (a)(1)(A) through (a)(1)(F) of this

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Section, and the supplier must present the additional information in plain language that can be understood by the general public. The supplier must submit all written public education materials to the Agency.

- A) IMPORTANT INFORMATION ABOUT LEAD IN YOUR DRINKING WATER. [INSERT NAME OF SUPPLIER] found elevated levels of lead in drinking water in some homes/buildings. Lead can cause serious health problems, especially for pregnant women and young children. Please read this information closely to see what you can do to reduce lead in your drinking water.

BOARD NOTE: The supplier must use the verbatim text set forth in this subsection (a)(1)(A), with the exception that the supplier must insert its name in place of the bracketed text.

- B) Health effects of lead. Lead can cause serious health problems if too much enters your body from drinking water or other sources. It can cause damage to the brain and kidneys, and can interfere with the production of red blood cells that carry oxygen to all parts of your body. The greatest risk of lead exposure is to infants, young children, and pregnant women. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults. Lead is stored in the bones, and it can be released later in life. During pregnancy, the child receives lead from the mother's bones, which may affect brain development.

BOARD NOTE: The supplier must use the verbatim text set forth in this subsection (a)(1)(B).

- C) Sources of Lead.
- i) Explain what lead is.
 - ii) Explain possible sources of lead in drinking water and how lead enters drinking water. Include information on home and building plumbing materials and service lines that may contain lead.

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- iii) Discuss other important sources of lead exposure in addition to drinking water (e.g., paint).

BOARD NOTE: The supplier must use text that provides the information described in this subsection (a)(1)(C).

- D) Discuss the steps the consumer can take to reduce his or her exposure to lead in drinking water.
 - i) Encourage running the water to flush out the lead.
 - ii) Explain concerns with using hot water from the tap and specifically caution against the use of hot water for preparing baby formula.
 - iii) Explain that boiling water does not reduce lead levels.
 - iv) Discuss other options consumers can take to reduce exposure to lead in drinking water, such as alternative sources or treatment of water.
 - v) Suggest that parents have their child's blood tested for lead.

BOARD NOTE: The supplier must use text that provides the information described in this subsection (a)(1)(D).

- E) Explain why there are elevated levels of lead in the supplier's drinking water (if known) and what the supplier is doing to reduce the lead levels in homes and buildings in this area.

BOARD NOTE: The supplier must use text that provides the information described in this subsection (a)(1)(E).

- F) For more information, call us at [INSERT THE SUPPLIER'S NUMBER] [(IF APPLICABLE), or visit our Web site at [INSERT THE SUPPLIER'S WEB SITE HERE]]. For more information on reducing lead exposure around your home/building and the health

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effects of lead, visit USEPA's Web site at <http://www.epa.gov/lead> or contact your health care provider.

BOARD NOTE: The supplier must use the verbatim text set forth in this subsection (a)(1)(F), with the exception that the supplier must insert its name in place of the first segment of bracketed text, and it must add the second segment of bracketed text and substitute its Web address for the internal bracketed text.

- 2) Community water systems. In addition to including the elements specified in subsection (a)(1) of this Section, a CWS supplier must do both of the following:
 - A) It must tell consumers how to get their water tested; and
 - B) It must discuss lead in plumbing components and the difference between low-lead and lead-free components.

BOARD NOTE: At corresponding 40 CFR 141.85(a)(1)(2007), USEPA allowed the State to require prior approval of written public information materials. Rather than require prior Agency approval, the Board has chosen to allow the Agency to raise any deficiencies that it may perceive using its existing procedure for review of public education materials. The Agency has outlined its standard practice for review of public information materials as follows: The Agency provides a comprehensive public education packet to the supplier together with the notice that the supplier has exceeded the lead action level. That packet includes guidance and templates for the supplier to use in preparing and distributing its public education materials. The supplier must send a copy of the public education materials that it distributes to the Agency, and the Agency reviews the copy of the materials after their distribution to the public. The Agency directly communicates to the supplier any perceived defects in the materials. The Agency will request correction when it perceives minor defects in future distributions of the public education materials, or the Agency will request a redistribution of correct public education materials when it perceives minor defects in the materials already distributed.

- b) Delivery of public education materials.
 - 1) The public education materials of a supplier that serves a large proportion

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of non-English speaking consumers must contain information in the appropriate languages regarding the importance of the notice, or it must contain a telephone number or address where a person served may contact the supplier to obtain a translated copy of the public education materials or to request assistance in the appropriate language.

- 2) A CWS supplier that exceeds the lead action level on the basis of tap water samples collected in accordance with Section 611.356 and which is not already conducting public education tasks pursuant to this Section must, within 60 days after the end of the monitoring period in which the exceedance occurred, complete the public education tasks according to the following requirements:
 - A) The CWS supplier must deliver printed materials that meet the content requirements of subsection (a) of this Section to all of its bill-paying customers.
 - B) Methods of delivery for a CWS supplier.
 - i) The CWS supplier must contact customers who are most at risk by delivering education materials that meet the content requirements of subsection (a) of this Section to local public health agencies, even if the agencies are not located within the supplier's service area, along with an informational notice that encourages distribution to all of the agencies' potentially affected customers or the supplier's users. The supplier must contact the local public health agencies directly by phone or in person. The local public health agencies may provide a specific list of additional community-based organizations that serve the target populations, which may include organizations outside the service area of the supplier. If such lists are provided, the supplier must deliver education materials that meet the content requirements of subsection (a) of this Section to each of the organizations on the provided lists.
 - ii) The CWS supplier must contact customers who are most at risk by delivering materials that meet the content requirements of subsection (a) of this Section to the

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organizations listed in subsections (b)(2)(H)(i) through (b)(2)(H)(vi) that are located within the supplier's service area, along with an informational notice that encourages distribution to all the organization's potentially affected customers or supplier's users.

BOARD NOTE: The Board found it necessary to move the text of 40 CFR 141.85(b)(2)(ii)(B)(1) through (b)(2)(ii)(B)(6) (2007), as added at 72 Fed. Reg. 57782 (Oct. 10, 2007), to appear as subsection (b)(2)(H)(i) through subsection (b)(2)(H)(vi) of this Section, in order to comport with Illinois Administrative Code codification requirements relating to allowed indent levels in rules.

- iii) The CWS supplier must make a good faith effort to locate the organizations listed in subsections (b)(2)(I)(i) through (b)(2)(I)(iii) of this Section that are located within the service area and deliver materials that meet the content requirements of subsection (a) of this Section to them, along with an informational notice that encourages distribution to all potentially affected customers or users. The good faith effort to contact at-risk customers may include requesting a specific contact list of these organizations from the local public health agencies, even if the agencies are not located within the supplier's service area.

BOARD NOTE: The Board found it necessary to move the text of 40 CFR 141.85(b)(2)(ii)(C)(1) through (b)(2)(ii)(C)(3) (2007), as added at 72 Fed. Reg. 57782 (Oct. 10, 2007), to appear as subsection (b)(2)(I)(i) through subsection (b)(2)(I)(iii) of this Section, in order to comport with Illinois Administrative Code codification requirements relating to allowed indent levels in rules.

- C) No less often than quarterly, the CWS supplier must provide information on or in each water bill as long as the system exceeds the action level for lead. The message on the water bill must include the following statement exactly as written, except for the

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text in brackets for which the supplier must include system-specific information:

[INSERT NAME OF SUPPLIER] found high levels of lead in drinking water in some homes. Lead can cause serious health problems. For more information please call [INSERT NAME OF SUPPLIER] [or visit (INSERT SUPPLIER'S WEB SITE HERE)]. The message or delivery mechanism can be modified in consultation with the Illinois Environmental Protection Agency, Division of Public Water Supply; specifically, the Agency may allow a separate mailing of public education materials to customers if the water system cannot place the information on water bills.

- D) The CWS supplier must post material meeting the content requirements of subsection (a) of this Section on the supplier's Web site if the CWS supplier serves a population greater than 100,000.
- E) The CWS supplier must submit a press release to newspaper, television, and radio stations.
- F) In addition to subsections (b)(2)(A) through (b)(2)(E) of this Section, the CWS supplier must implement at least three activities from one or more of the categories listed below. The educational content and selection of these activities must be determined in consultation with the Agency.
 - i) Public Service Announcements.
 - ii) Paid advertisements.
 - iii) Public Area Information Displays.
 - iv) E-mails to customers.
 - v) Public Meetings.

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- vi) Household Deliveries.
 - vii) Targeted Individual Customer Contact.
 - viii) Direct material distribution to all multi-family homes and institutions.
 - ix) Other methods approved by the State.
- G) For a CWS supplier that is required to conduct monitoring annually or less frequently, the end of the monitoring period is September 30 of the calendar year in which the sampling occurs, or, if the Agency has established an alternate monitoring period, by a SEP issued pursuant to Section 611.110, the last day of that period.
- H) Organizations that the CWS supplier must contact when required to do so pursuant to subsection (b)(2)(B)(ii) of this Section.
- i) Public and private schools or school boards.
 - ii) Women, Infants and Children (WIC) and Head Start programs.
 - iii) Public and private hospitals and medical clinics.
 - vi) Pediatricians.
 - v) Family planning clinics.
 - vi) Local welfare agencies.

BOARD NOTE: This subsection (b)(2)(H) corresponds with 40 CFR 141.85(b)(2)(ii)(B)(1) through (b)(2)(ii)(B)(6) (2007), as added at 72 Fed. Reg. 57782 (Oct. 10, 2007). The Board found it necessary to move the text of those federal provisions to comport with Illinois Administrative Code codification requirements relating to allowed indent levels in rules.

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- I) Organizations that the CWS supplier must contact when required to do so pursuant to subsection (b)(2)(B)(iii) of this Section.
- i) Licensed childcare centers.
 - ii) Public and private preschools.
 - iii) Obstetricians-gynecologists and midwives.

BOARD NOTE: This subsection (b)(2)(H) corresponds with 40 CFR 141.85(b)(2)(ii)(C)(1) through (b)(2)(ii)(C)(3) (2007), as added at 72 Fed. Reg. 57782 (Oct. 10, 2007). The Board found it necessary to move the text of those federal provisions to comport with Illinois Administrative Code codification requirements relating to allowed indent levels in rules.

- 3) As long as a CWS supplier exceeds the action level, it must repeat the activities described in subsection (b)(2) of this Section, as described in subsections (b)(3)(A) through (b)(3)(D) of this Section.
- A) A CWS supplier must repeat the tasks contained in subsections (b)(2)(A), (b)(2)(B) and (b)(2)(D) of this Section every 12 months.
 - B) A CWS supplier must repeat tasks contained in subsection (b)(2)(C) of this Section with each billing cycle.
 - C) A CWS supplier serving a population greater than 100,000 must post and retain material on a publicly accessible Web site pursuant to subsection (b)(2)(D) of this Section.
 - D) The CWS supplier must repeat the task in subsection (b)(2)(E) of this Section twice every 12 months on a schedule agreed upon with the Agency by a SEP issued pursuant to Section 611.110. The Agency must, on a case-by-case basis, by a SEP issued pursuant to Section 611.110, extend the time for the supplier to complete the public education tasks set forth in subsection (b)(2) of this Section beyond the 60-day limit if it determines that the extended time is needed for implementation purposes; however, the Agency must

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issue the SEP granting any extension prior to expiration of the 60-day deadline.

- 4) Within 60 days after the end of the monitoring period in which a NTNCWS supplier exceeds the lead action level (unless it already is repeating public education tasks pursuant to subsection (b)(5) of this Section), it must deliver the public education materials specified by subsection (a) of this Section, as in subsections (b)(4)(A) and (b)(4)(B) of this Section, subject to the limitation set forth in subsection (b)(4)(C) of this Section:
 - A) The NTNCWS supplier must post informational posters on lead in drinking water in a public place or common area in each of the buildings served by the supplier; and
 - B) The NTNCWS supplier must distribute informational pamphlets or brochures on lead in drinking water to each person served by the NTNCWS supplier. The Agency may, by a SEP ~~issued~~^{granted} pursuant to Section 611.110, allow the system to utilize electronic transmission in lieu of or combined with printed materials as long as it achieves at least the same coverage.
 - C) For a NTNCWS supplier that is required to conduct monitoring annually or less frequently, the end of the monitoring period is September 30 of the calendar year in which the sampling occurs, or, if the Agency has established an alternate monitoring period, by a SEP issued pursuant to Section 611.110, the last day of that period.
- 5) A NTNCWS supplier must repeat the tasks set forth in subsection (b)(4) of this Section at least once during each calendar year in which the supplier exceeds the lead action level. The Agency must, on a case-by-case basis, by a SEP issued pursuant to Section 611.110, extend the time for the supplier to complete the public education tasks set forth in subsection (b)(2) of this Section beyond the 60-day limit if it determines that the extended time is needed for implementation purposes; however, the Agency must issue the SEP granting any extension prior to expiration of the 60-day deadline.

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- 6) A supplier may discontinue delivery of public education materials after it has met the lead action level during the most recent six-month monitoring period conducted pursuant to Section 611.356. Such a supplier must begin public education anew in accordance with this Section if it subsequently exceeds the lead action level during any six-month monitoring period.
- 7) A CWS supplier may apply to the Agency, in writing, to use only the text specified in subsection (a)(1) of this Section in lieu of the text in subsections (a)(1) and (a)(2) of this Section and to perform the tasks listed in subsections (b)(4) and (b)(5) of this Section in lieu of the tasks in subsections (b)(2) and (b)(3) of this Section if the following are true:
 - A) The supplier is a facility, such as a prison or a hospital, where the population served is not capable of or is prevented from making improvements to plumbing or installing point of use treatment devices; and
 - B) The system provides water as part of the cost of services provided, and it does not separately charge for water consumption.
- 8) A CWS supplier that serves 3,300 or fewer people may limit certain aspects of its public education programs as follows:
 - A) With respect to the requirements of subsection (b)(2)(F) of this Section, a supplier that serves 3,300 or fewer people must implement at least one of the activities listed in that subsection.
 - B) With respect to the requirements of subsection (b)(2)(B) of this Section, a supplier that serves 3,300 or fewer people may limit the distribution of the public education materials required under that subsection to facilities and organizations that it serves which are most likely to be visited regularly by pregnant women and children.
 - C) With respect to the requirements of subsection (b)(2)(E) of this Section, the Agency may, by a SEP issued pursuant to Section 611.110, waive this requirement for a supplier that serves 3,300 or fewer persons, as long as the supplier distributes notices to every household that it serves.

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- c) Supplemental monitoring and notification of results. A supplier that fails to meet the lead action level on the basis of tap samples collected in accordance with Section 611.356 must offer to sample the tap water of any customer who requests it. The supplier is not required to pay for collecting or analyzing the sample, nor is the supplier required to collect and analyze the sample itself.
- d) Requirement for consumer notice of tap water monitoring results.
- 1) Consumer notice requirement. A supplier must provide a notice of the individual tap results from lead tap water monitoring carried out under the requirements of Section 611.356 to the persons served by the water system at the specific sampling site from which the sample was taken (e.g., the occupants of the residence where the tap was tested).
 - 2) Timing of consumer notice. The supplier must provide the consumer notice as soon as practical, but no later than 30 days after it learns of the tap monitoring results.
 - 3) Content of consumer notice. The consumer notice must include the results of lead tap water monitoring for the tap that was tested, an explanation of the health effects of lead, a list of steps that consumers can take to reduce exposure to lead in drinking water, and contact information for the water utility. The notice must also provide the maximum contaminant level goal and the action level for lead and the definitions for these two terms from Section 611.883(c).
 - 4) Delivery of consumer notice. The consumer notice must be provided to persons served at the tap that was tested, either by mail or by another method approved by the Agency, by a SEP issued pursuant to Section 611.110. For example, upon approval by the Agency, a NTNCWS supplier could post the results on a bulletin board in the facility to allow users to review the information. The supplier must provide the notice to customers at sample taps tested, including consumers who do not receive water bills.

BOARD NOTE: Derived from 40 CFR 141.85 [\(2013\)\(2007\)](#), as amended at 57782 [\(October 10, 2007\)](#).

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(Source: Amended at 38 Ill. Reg. _____, effective _____)

Section 611.356 Tap Water Monitoring for Lead and Copper

- a) Sampling site location.
 - 1) Selecting a pool of targeted sampling sites.
 - A) By the applicable date for commencement of monitoring under subsection (d)(1) of this Section, each supplier must complete a materials evaluation of its distribution system in order to identify a pool of targeted sampling sites that meets the requirements of this Section.
 - B) The pool of targeted sampling sites must be sufficiently large to ensure that the supplier can collect the number of lead and copper tap samples required by subsection (c) of this Section.
 - C) The supplier must select the sites for collection of first draw samples from this pool of targeted sampling sites.
 - D) The supplier must not select as sampling sites any faucets that have point-of-use or point-of-entry treatment devices designed to remove or capable of removing inorganic contaminants.
 - 2) Materials evaluation.
 - A) A supplier must use the information on lead, copper, and galvanized steel collected pursuant to 40 CFR 141.42(d) (special monitoring for corrosivity characteristics) when conducting a materials evaluation.
 - B) When an evaluation of the information collected pursuant to 40 CFR 141.42(d) is insufficient to locate the requisite number of lead and copper sampling sites that meet the targeting criteria in subsection (a) of this Section, the supplier must review the following sources of information in order to identify a sufficient number of sampling sites:

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- i) All plumbing codes, permits, and records in the files of the building departments that indicate the plumbing materials that are installed within publicly- and privately-owned structures connected to the distribution system;
 - ii) All inspections and records of the distribution system that indicate the material composition of the service connections which connect a structure to the distribution system;
 - iii) All existing water quality information, which includes the results of all prior analyses of the system or individual structures connected to the system, indicating locations that may be particularly susceptible to high lead or copper concentrations; and
 - iv) The supplier must seek to collect such information where possible in the course of its normal operations (e.g., checking service line materials when reading water meters or performing maintenance activities).
- 3) Tiers of sampling sites. Suppliers must categorize the sampling sites within their pool according to the following tiers:
- A) CWS Tier 1 sampling sites. "CWS Tier 1 sampling sites" must include the following single-family structures:
 - i) Those that contain copper pipes with lead solder installed after 1982 or which contain lead pipes; or
 - ii) Those that are served by a lead service line.

BOARD NOTE: Subsection (a)(3)(A) was derived from segments of 40 CFR 141.86(a)(3) (2007). This allows the pool of CWS tier 1 sampling sites to consist exclusively of structures served by lead service lines.

- B) CWS Tier 2 sampling sites. "CWS Tier 2 sampling sites" must include the following buildings, including multiple-family

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structures:

- i) Those that contain copper pipes with lead solder installed after 1982 or contain lead pipes; or
- ii) Those that are served by a lead service line.

BOARD NOTE: Subsection (a)(3)(B) was derived from segments of 40 CFR 141.86(a)(4) (2007). This allows the pool of CWS tier 2 sampling sites to consist exclusively of structures served by lead service lines.

- C) CWS Tier 3 sampling sites. "CWS Tier 3 sampling sites" must include the following single-family structures: those that contain copper pipes with lead solder installed before 1983.

BOARD NOTE: Subsection (a)(3)(C) was derived from segments of 40 CFR 141.86(a)(5) (2007).

- D) NTNCWS Tier 1 sampling sites. "NTNCWS Tier 1 sampling sites" must include the following buildings:

- i) Those that contain copper pipes with lead solder installed after 1982 or which contain lead pipes; or
- ii) Those that are served by a lead service line.

BOARD NOTE: Subsection (a)(3)(D) was derived from segments of 40 CFR 141.86(a)(6) (2007). This allows the pool of NTNCWS tier 1 sampling sites to consist exclusively of buildings served by lead service lines.

- E) Alternative NTNCWS sampling sites. "Alternative NTNCWS sampling sites" must include the following buildings: those that contain copper pipes with lead solder installed before 1983.

BOARD NOTE: Subsection (a)(3)(E) was derived from segments of 40 CFR 141.86(a)(7) (2007).

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- 4) Selection of sampling sites. Suppliers must select sampling sites for their sampling pool as follows:
- A) CWS Suppliers. CWS suppliers must use CWS tier 1 sampling sites, except that the supplier may include CWS tier 2 or CWS tier 3 sampling sites in its sampling pool as follows:
- i) If multiple-family residences comprise at least 20 percent of the structures served by a supplier, the supplier may use CWS tier 2 sampling sites in its sampling pool; or
- BOARD NOTE: Subsection (a)(4)(A)(i) was derived from a segment of 40 CFR 141.86(a)(3)(ii) (2007).
- ii) If the CWS supplier has an insufficient number of CWS tier 1 sampling sites on its distribution system, the supplier may use CWS tier 2 sampling sites in its sampling pool; or
- BOARD NOTE: Subsection (a)(4)(A)(ii) was derived from a segment of 40 CFR 141.86(a)(4) (2007).
- iii) If the CWS supplier has an insufficient number of CWS tier 1 and CWS tier 2 sampling sites on its distribution system, the supplier may complete its sampling pool with CWS tier 3 sampling sites.
- BOARD NOTE: Subsection (a)(4)(A)(iii) was derived from a segment of 40 CFR 141.86(a)(5) (2007).
- iv) If the CWS supplier has an insufficient number of CWS tier 1 sampling sites, CWS tier 2 sampling sites, and CWS tier 3 sampling sites, the supplier must use those CWS tier 1 sampling sites, CWS tier 2 sampling sites, and CWS tier 3 sampling sites that it has and complete its sampling pool with representative sites throughout its distribution system for the balance of its sampling sites. For the purpose of this subsection (a)(4)(A)(iv), a representative site is a site in which the plumbing materials used at that site would be commonly found at other sites served by the water system.

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BOARD NOTE: Subsection (a)(4)(A)(iv) was derived from segments of 40 CFR 141.86(a)(5) (2007).

B) NTNCWS suppliers.

- i) An NTNCWS supplier must select NTNCWS tier 1 sampling sites for its sampling pool.

BOARD NOTE: Subsection (a)(4)(B)(i) was derived from segments of 40 CFR 141.86(a)(6) (2007).

- ii) If the NTNCWS supplier has an insufficient number of NTNCWS tier 1 sampling sites, the supplier may complete its sampling pool with alternative NTNCWS sampling sites.

BOARD NOTE: Subsection (a)(4)(B)(ii) was derived from segments of 40 CFR 141.86(a)(7) (2007).

- iii) If the NTNCWS supplier has an insufficient number of NTNCWS tier 1 sampling sites and NTNCWS alternative sampling sites, the supplier must use representative sites throughout its distribution system. For the purpose of this subsection (a)(4)(B)(ii), a representative site is a site in which the plumbing materials used at that site would be commonly found at other sites served by the water system.

BOARD NOTE: Subsection (a)(4)(B)(iii) was derived from segments of 40 CFR 141.86(a)(7) (2007).

C) Suppliers with lead service lines. Any supplier whose distribution system contains lead service lines must draw samples during each six-month monitoring period from sampling sites as follows:

- i) 50 percent of the samples from sampling sites that contain lead pipes or from sampling sites that have copper pipes with lead solder; and

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- ii) 50 percent of those samples from sites served by a lead service line.
- iii) A supplier that cannot identify a sufficient number of sampling sites served by a lead service line must collect first-draw samples from all of the sites identified as being served by such lines.

BOARD NOTE: Subsection (a)(4)(C) was derived from segments of 40 CFR 141.86(a)(8) (2007). This allows the pool of sampling sites to consist exclusively of structures or buildings served by lead service lines.

- b) Sample collection methods.
 - 1) All tap samples for lead and copper collected in accordance with this Subpart G, with the exception of lead service line samples collected under Section 611.354(c) and samples collected under subsection (b)(5) of this Section, must be first-draw samples.
 - 2) First-draw tap samples.
 - A) Each first-draw tap sample for lead and copper must be one liter in volume and have stood motionless in the plumbing system of each sampling site for at least six hours.
 - B) First-draw samples from residential housing must be collected from the cold water kitchen tap or bathroom sink tap.
 - C) First-draw samples from a non-residential building must be one liter in volume and must be collected at an interior tap from which water is typically drawn for consumption.
 - D) Non-first-draw samples collected in lieu of first-draw samples pursuant to subsection (b)(5) of this Section must be one liter in volume and must be collected at an interior tap from which water is typically drawn for consumption.
 - E) First-draw samples may be collected by the supplier or the supplier

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may allow residents to collect first-draw samples after instructing the residents of the sampling procedures specified in this subsection (b).

- i) To avoid problems of residents handling nitric acid, acidification of first-draw samples may be done up to 14 days after the sample is collected.
 - ii) After acidification to resolubilize the metals, the sample must stand in the original container for the time specified in the approved USEPA method before the sample can be analyzed.
- F) If a supplier allows residents to perform sampling under subsection (b)(2)(D) of this Section, the supplier may not challenge the accuracy of sampling results based on alleged errors in sample collection.
- 3) Service line samples.
- A) Each service line sample must be one liter in volume and have stood motionless in the lead service line for at least six hours.
 - B) Lead service line samples must be collected in one of the following three ways:
 - i) At the tap after flushing that volume of water calculated as being between the tap and the lead service line based on the interior diameter and length of the pipe between the tap and the lead service line;
 - ii) Tapping directly into the lead service line; or
 - iii) If the sampling site is a single-family structure, allowing the water to run until there is a significant change in temperature that would be indicative of water that has been standing in the lead service line.
- 4) Follow-up first-draw tap samples.

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- A) A supplier must collect each follow-up first-draw tap sample from the same sampling site from which it collected the previous samples.
 - B) If, for any reason, the supplier cannot gain entry to a sampling site in order to collect a follow-up tap sample, the supplier may collect the follow-up tap sample from another sampling site in its sampling pool, as long as the new site meets the same targeting criteria and is within reasonable proximity of the original site.
- 5) Substitute non-first-draw samples.
- A) A NTNCWS supplier or a CWS supplier that meets the criteria of Sections 611.355(b)(7)(A) and (b)(7)(B), that does not have enough taps that can supply first-draw samples, as defined in Section 611.102, may apply to the Agency in writing to substitute non-first-draw samples by a SEP granted under Section 611.110.
 - B) A supplier approved to substitute non-first-draw samples must collect as many first-draw samples from appropriate taps as possible and identify sampling times and locations that would likely result in the longest standing time for the remaining sites.
 - C) The Agency may grant a SEP that waives the requirement for prior Agency approval of non-first-draw sampling sites selected by the system.
- c) Number of samples.
- 1) Suppliers must collect at least one sample from the number of sites listed in the first column of Table D of this Part (labelled "standard monitoring") during each six-month monitoring period specified in subsection (d) of this Section.
 - 2) A supplier conducting reduced monitoring pursuant to subsection (d)(4) of this Section must collect one sample from the number of sites specified in the second column of Table D of this Part (labelled "reduced monitoring") during each reduced monitoring period specified in subsection (d)(4) of

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this Section. Such reduced monitoring sites must be representative of the sites required for standard monitoring. A supplier whose system has fewer than five drinking water taps that can be used for human consumption and which can meet the sampling site criteria of subsection (a) of this Section to reach the required number of sampling sites listed in this subsection (c) must collect multiple samples from individual taps. To accomplish this, the supplier must collect at least one sample from each tap, then it must collect additional samples from those same taps on different days during the monitoring period, in order to collect a total number of samples that meets the required number of sampling sites. Alternatively, the Agency must, by a SEP issued pursuant to Section 611.110, allow a supplier whose system has fewer than five drinking water taps to collect a number of samples that is fewer than the number of sites specified in this subsection (c) if it determines that 100 percent of all taps that can be used for human consumption are sampled and that the reduced number of samples will produce the same results as would the collection of multiple samples from some taps. Any Agency approval of a reduction of the minimum number of samples must be based on a request from the supplier or on on-site verification by the Agency. The Agency may, by a SEP issued pursuant to Section 611.110, specify sampling locations when a system is conducting reduced monitoring.

d) Timing of monitoring.

1) Initial tap sampling.

The first six-month monitoring period for small, medium-sized and large system suppliers must begin on the dates specified in Table E of this Part.

- A) All large system suppliers must monitor during each of two consecutive six-month periods.
- B) All small- and medium-sized system suppliers must monitor during each consecutive six-month monitoring period until the following is true:
 - i) The supplier exceeds the lead action level or the copper action level and is therefore required to implement the corrosion control treatment requirements under Section

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611.351, in which case the supplier must continue monitoring in accordance with subsection (d)(2) of this Section; or

- ii) The supplier meets the lead action level and the copper action level during each of two consecutive six-month monitoring periods, in which case the supplier may reduce monitoring in accordance with subsection (d)(4) of this Section.
- 2) Monitoring after installation of corrosion control and source water treatment.
- A) Any large system supplier that installs optimal corrosion control treatment pursuant to Section 611.351(d)(4) must have monitored during each of two consecutive six-month monitoring periods before January 1, 1998.
 - B) Any small- or medium-sized system supplier that installs optimal corrosion control treatment pursuant to Section 611.351(e)(5) must monitor during each of two consecutive six-month monitoring periods before 36 months after the Agency approves optimal corrosion control treatment, as specified in Section 611.351(e)(6).
 - C) Any supplier that installs source water treatment pursuant to Section 611.353(a)(3) must monitor during each of two consecutive six-month monitoring periods before 36 months after completion of step 2, as specified in Section 611.353(a)(4).
- 3) Monitoring after the Agency specification of water quality parameter values for optimal corrosion control.
After the Agency specifies the values for water quality control parameters pursuant to Section 611.352(f), the supplier must monitor during each subsequent six-month monitoring period, with the first six-month monitoring period to begin on the date the Agency specifies the optimal values.
- 4) Reduced monitoring.

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- A) Reduction to annual for small- and medium-sized system suppliers meeting the lead and copper action levels. A small- or medium-sized system supplier that meets the lead and copper action levels during each of two consecutive six-month monitoring periods may reduce the number of samples in accordance with subsection (c) of this Section, and reduce the frequency of sampling to once per year. A small- or medium-sized system supplier that collects fewer than five samples as specified in subsection (c) of this Section and which meets the lead and copper action levels during each of two consecutive six-month monitoring periods may reduce its frequency of sampling to once per year. In no case can the supplier reduce the number of samples required below the minimum of one sample per available tap. This reduced sampling may only begin during the calendar year immediately following the end of the second consecutive six-month monitoring period.
- B) SEP allowing reduction to annual for suppliers maintaining water quality control parameters.
- i) Any supplier that meets the lead action level and which maintains the range of values for the water quality control parameters reflecting optimal corrosion control treatment specified by the Agency under Section 611.352(f) during each of two consecutive six-month monitoring periods may reduce the frequency of monitoring to once per year and the number of lead and copper samples to that specified by subsection (c) of this Section if it receives written approval from the Agency in the form of a SEP ~~issued~~granted pursuant to Section 611.110. This reduced sampling may only begin during the calendar year immediately following the end of the second consecutive six-month monitoring period.
- ii) The Agency must review monitoring, treatment, and other relevant information submitted by the water system in accordance with Section 611.360, and must notify the system in writing by a SEP ~~issued~~granted pursuant to Sections 611.110 when it determines the system is eligible to reduce its monitoring frequency to once every three

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years pursuant to this subsection (d)(4).

- iii) The Agency must review, and where appropriate, revise its determination under subsection (d)(4)(B)(i) of this Section when the supplier submits new monitoring or treatment data, or when other data relevant to the number and frequency of tap sampling becomes available to the Agency.
- C) Reduction to triennial for small- and medium-sized system suppliers.
- i) Small- and medium-sized system suppliers meeting lead and copper action levels. A small- or medium-sized system supplier that meets the lead action level and which meets the lead and copper action levels during three consecutive years of monitoring may reduce the frequency of monitoring for lead and copper from annually to once every three years.
 - ii) SEP for suppliers meeting optimal corrosion control treatment. Any supplier that maintains the range of values for the water quality control parameters reflecting optimal corrosion control treatment specified by the Agency under Section 611.352(f) during three consecutive years of monitoring may reduce its monitoring frequency from annual to once every three years if it receives written approval from the Agency in the form of a SEP ~~issued~~^{granted} pursuant to Section 611.110. Samples collected once every three years must be collected no later than every third calendar year.
 - iii) The Agency must review, and where appropriate, revise its determination under subsection (d)(4)(C)(ii) of this Section when the supplier submits new monitoring or treatment data, or when other data relevant to the number and frequency of tap sampling becomes available to the Agency.

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- D) Sampling at a reduced frequency. A supplier that reduces the number and frequency of sampling must collect these samples from representative sites included in the pool of targeted sampling sites identified in subsection (a) of this Section, preferentially selecting those sampling sites from the highest tier first. Suppliers sampling annually or less frequently must conduct the lead and copper tap sampling during the months of June, July, August, or September, unless the Agency has approved a different sampling period in accordance with subsection (d)(4)(D)(i) of this Section.
- i) The Agency may grant a SEP pursuant to Section 611.110 that approves a different period for conducting the lead and copper tap sampling for systems collecting a reduced number of samples. Such a period must be no longer than four consecutive months and must represent a time of normal operation where the highest levels of lead are most likely to occur. For a NTNCWS supplier that does not operate during the months of June through September and for which the period of normal operation where the highest levels of lead are most likely to occur is not known, the Agency must designate a period that represents a time of normal operation for the system. This reduced sampling may only begin during the period approved or designated by the Agency in the calendar year immediately following the end of the second consecutive six-month monitoring period for systems initiating annual monitoring and during the three-year period following the end of the third consecutive calendar year of annual monitoring for a supplier initiating triennial monitoring.
- ii) A supplier monitoring annually that has been collecting samples during the months of June through September and which receives Agency approval to alter its sample collection period under subsection (d)(4)(D)(i) of this Section must collect its next round of samples during a time period that ends no later than 21 months after the previous round of sampling. A supplier monitoring once every three years that has been collecting samples during the months of June through September and which receives Agency

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approval to alter the sampling collection period as provided in subsection (d)(4)(D)(i) of this Section must collect its next round of samples during a time period that ends no later than 45 months after the previous round of sampling. Subsequent rounds of sampling must be collected annually or once every three years, as required by this Section. A small system supplier with a waiver granted pursuant to subsection (g) of this Section that has been collecting samples during the months of June through September and which receives Agency approval to alter its sample collection period under subsection (d)(4)(D)(i) of this Section must collect its next round of samples before the end of the nine-year compliance cycle (as that term is defined in Section 611.101).

- E) Any water system that demonstrates for two consecutive six-month monitoring periods that the tap water lead level computed under Section 611.350(c)(3) is less than or equal to 0.005 mg/ℓ and that the tap water copper level computed under Section 611.350(c)(3) is less than or equal to 0.65 mg/ℓ may reduce the number of samples in accordance with subsection (c) of this Section and reduce the frequency of sampling to once every three calendar years.
- F) Resumption of standard monitoring.
 - i) Small- or medium-sized suppliers exceeding lead or copper action level. A small- or medium-sized system supplier subject to reduced monitoring that exceeds the lead action level or the copper action level must resume sampling in accordance subsection (d)(3) of this Section and collect the number of samples specified for standard monitoring under subsection (c) of this Section. Such a supplier must also conduct water quality parameter monitoring in accordance with Section 611.357(b), (c), or (d) (as appropriate) during the six-month monitoring period in which it exceeded the action level. Any such supplier may resume annual monitoring for lead and copper at the tap at the reduced number of sites specified in subsection (c) of this Section after it has completed two subsequent consecutive six-

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month rounds of monitoring that meet the criteria of subsection (d)(4)(A) of this Section. Any such supplier may resume monitoring once every three years for lead and copper at the reduced number of sites after it demonstrates through subsequent rounds of monitoring that it meets the criteria of either subsection (d)(4)(C) or (d)(4)(E) of this Section.

- ii) Suppliers failing to operate within water quality control parameters. Any supplier subject to reduced monitoring frequency that fails to meet the lead action level during any four-month monitoring period or that fails to operate within the range of values for the water quality control parameters specified pursuant to Section 611.352(f) for more than nine days in any six-month period specified in Section 611.357(d) must conduct tap water sampling for lead and copper at the frequency specified in subsection (d)(3) of this Section, must collect the number of samples specified for standard monitoring under subsection (c) of this Section, and must resume monitoring for water quality parameters within the distribution system in accordance with Section 611.357(d). This standard tap water sampling must begin no later than the six-month period beginning January 1 of the calendar year following the lead action level exceedance or water quality parameter excursion. A supplier may resume reduced monitoring for lead and copper at the tap and for water quality parameters within the distribution system only if it fulfills the conditions set forth in subsection (d)(4)(H) of this Section.

BOARD NOTE: The Board moved the material from the last sentence of 40 CFR 141.86(d)(4)(vi)(B) and 40 CFR 141.86(d)(4)(vi)(B)(1) through (d)(4)(vi)(B)(3) (2007) to subsections (d)(4)(H) and (d)(4)(H)(i) through (d)(4)(H)(iii), since Illinois Administrative Code codification requirements allow subsections only to four indent levels.

- G) Any water supplier subject to a reduced monitoring frequency under subsection (d)(4) of this Section must notify the Agency in

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writing in accordance with Section 611.360(a)(3) of any upcoming long-term change in treatment or addition of a new source as described in that Section. The Agency must review and approve the addition of a new source or long-term change in water treatment before it is implemented by the supplier. The Agency may, by a SEP ~~issued~~granted pursuant to Section 611.110, require the system to resume sampling in accordance with subsection (d)(3) of this Section and collect the number of samples specified for standard monitoring under subsection (c) of this Section or take other appropriate steps such as increased water quality parameter monitoring or re-evaluation of its corrosion control treatment given the potentially different water quality considerations.

- H) A supplier required under subsection (d)(4)(F) of this Section to resume monitoring in accordance with Section 611.357(d) may resume reduced monitoring for lead and copper at the tap and for water quality parameters within the distribution system under the following conditions:
- i) The supplier may resume annual monitoring for lead and copper at the tap at the reduced number of sites specified in subsection (c) of this Section after it has completed two subsequent six-month rounds of monitoring that meet the criteria of subsection (d)(4)(B) of this Section and the supplier has received written approval from the Agency by a SEP pursuant to Section 611.110 that it is appropriate to resume reduced monitoring on an annual frequency. This sampling must begin during the calendar year immediately following the end of the second consecutive six-month monitoring period.
 - ii) The supplier may resume monitoring for lead and copper once every three years at the tap at the reduced number of sites after it demonstrates through subsequent rounds of monitoring that it meets the criteria of either subsection (d)(4)(C) or (d)(4)(E) of this Section and the system has received a SEP under Section 611.110 from the Agency that it is appropriate to resume monitoring once every three years.

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- iii) The supplier may reduce the number of water quality parameter tap water samples required in accordance with Section 611.357(e)(1) and the frequency with which it collects such samples in accordance with Section 611.357(e)(2). Such a system may not resume monitoring once every three years for water quality parameters at the tap until it demonstrates, in accordance with the requirements of Section 611.357(e)(2), that it has re-qualified for monitoring once every three years.

BOARD NOTE: Subsections (d)(4)(H) and (d)(4)(H)(i) through (d)(4)(H)(iii) are derived from the last sentence of 40 CFR 141.86(d)(4)(vi)(B) and 40 CFR 141.86 (d)(4)(vi)(B)(1) through (d)(4)(vi)(B)(3) (2007), since Illinois Administrative Code codification requirements allow only four indent levels of subsections.

- e) Additional monitoring. The results of any monitoring conducted in addition to the minimum requirements of this Section must be considered by the supplier and the Agency in making any determinations (i.e., calculating the 90th percentile lead action level or the copper level) under this Subpart G.
- f) Invalidation of lead or copper tap water samples. A sample invalidated under this subsection does not count toward determining lead or copper 90th percentile levels under Section 611.350(c)(3) or toward meeting the minimum monitoring requirements of subsection (c) of this Section.
 - 1) The Agency must invalidate a lead or copper tap water sample if it determines that one of the following conditions exists:
 - A) The laboratory establishes that improper sample analysis caused erroneous results;
 - B) The sample was taken from a site that did not meet the site selection criteria of this Section;
 - C) The sample container was damaged in transit; or

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- D) There is substantial reason to believe that the sample was subject to tampering.
- 2) The supplier must report the results of all samples to the Agency and all supporting documentation for samples the supplier believes should be invalidated.
- 3) To invalidate a sample under subsection (f)(1) of this Section, the decision and the rationale for the decision must be documented in writing. The Agency may not invalidate a sample solely on the grounds that a follow-up sample result is higher or lower than that of the original sample.
- 4) The water supplier must collect replacement samples for any samples invalidated under this Section if, after the invalidation of one or more samples, the supplier has too few samples to meet the minimum requirements of subsection (c) of this Section. Any such replacement samples must be taken as soon as possible, but no later than 20 days after the date the Agency invalidates the sample or by the end of the applicable monitoring period, whichever occurs later. Replacement samples taken after the end of the applicable monitoring period must not also be used to meet the monitoring requirements of a subsequent monitoring period. The replacement samples must be taken at the same locations as the invalidated samples or, if that is not possible, at locations other than those already used for sampling during the monitoring period.
- g) Monitoring waivers for small system suppliers. Any small system supplier that meets the criteria of this subsection (g) may apply to the Agency to reduce the frequency of monitoring for lead and copper under this Section to once every nine years (i.e., a "full waiver") if it meets all of the materials criteria specified in subsection (g)(1) of this Section and all of the monitoring criteria specified in subsection (g)(2) of this Section. Any small system supplier that meets the criteria in subsections (g)(1) and (g)(2) of this Section only for lead, or only for copper, may apply to the State for a waiver to reduce the frequency of tap water monitoring to once every nine years for that contaminant only (i.e., a "partial waiver").
- 1) Materials criteria. The supplier must demonstrate that its distribution system and service lines and all drinking water supply plumbing, including plumbing conveying drinking water within all residences and

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buildings connected to the system, are free of lead-containing materials or copper-containing materials, as those terms are defined in this subsection (g)(1), as follows:

- A) Lead. To qualify for a full waiver, or a waiver of the tap water monitoring requirements for lead (i.e., a "lead waiver"), the water supplier must provide certification and supporting documentation to the Agency that the system is free of all lead-containing materials, as follows:
- i) It contains no plastic pipes that contain lead plasticizers, or plastic service lines that contain lead plasticizers; and
 - ii) It is free of lead service lines, lead pipes, lead soldered pipe joints, and leaded brass or bronze alloy fittings and fixtures, unless such fittings and fixtures meet the specifications of NSF Standard 61, section 9, incorporated by reference in Section 611.102.

BOARD NOTE: Corresponding 40 CFR 141.86(g)(1)(i)(B) specifies "any standard established pursuant to 42 USC 300g-6(e) (SDWA section 1417(e))." USEPA has stated that the NSF standard is that standard. See 62 Fed. Reg. 44684 (Aug. 22, 1997).

- B) Copper. To qualify for a full waiver, or a waiver of the tap water monitoring requirements for copper (i.e., a "copper waiver"), the water supplier must provide certification and supporting documentation to the Agency that the system contains no copper pipes or copper service lines.
- 2) Monitoring criteria for waiver issuance. The supplier must have completed at least one six-month round of standard tap water monitoring for lead and copper at sites approved by the Agency and from the number of sites required by subsection (c) of this Section and demonstrate that the 90th percentile levels for any and all rounds of monitoring conducted since the system became free of all lead-containing or copper-containing materials, as appropriate, meet the following criteria:

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- A) Lead levels. To qualify for a full waiver, or a lead waiver, the supplier must demonstrate that the 90th percentile lead level does not exceed 0.005 mg/ℓ.
 - B) Copper levels. To qualify for a full waiver, or a copper waiver, the supplier must demonstrate that the 90th percentile copper level does not exceed 0.65 mg/ℓ.
- 3) State approval of waiver application. The Agency must notify the supplier of its waiver determination by a SEP issued pursuant to Section 611.110, in writing, setting forth the basis of its decision and any condition of the waiver. As a condition of the waiver, the Agency may require the supplier to perform specific activities (e.g., limited monitoring, periodic outreach to customers to remind them to avoid installation of materials that might void the waiver) to avoid the risk of lead or copper concentration of concern in tap water. The small system supplier must continue monitoring for lead and copper at the tap as required by subsections (d)(1) through (d)(4) of this Section, as appropriate, until it receives written notification from the Agency that the waiver has been approved.
- 4) Monitoring frequency for suppliers with waivers.
- A) A supplier with a full waiver must conduct tap water monitoring for lead and copper in accordance with subsection (d)(4)(D) of this Section at the reduced number of sampling sites identified in subsection (c) of this Section at least once every nine years and provide the materials certification specified in subsection (g)(1) of this Section for both lead and copper to the Agency along with the monitoring results. Samples collected every nine years must be collected no later than every ninth calendar year.
 - B) A supplier with a partial waiver must conduct tap water monitoring for the waived contaminant in accordance with subsection (d)(4)(D) of this Section at the reduced number of sampling sites specified in subsection (c) of this Section at least once every nine years and provide the materials certification specified in subsection (g)(1) of this Section pertaining to the waived contaminant along with the monitoring results. Such a supplier also must continue to monitor for the non-waived contaminant in accordance with

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requirements of subsections (d)(1) through (d)(4) of this Section, as appropriate.

- C) Any supplier with a full or partial waiver must notify the Agency in writing in accordance with Section 611.360(a)(3) of any upcoming long-term change in treatment or addition of a new source, as described in that Section. The Agency must review and approve the addition of a new source or long-term change in water treatment before it is implemented by the supplier. The Agency has the authority to require the supplier to add or modify waiver conditions (e.g., require recertification that the supplier's system is free of lead-containing or copper-containing materials, require additional rounds of monitoring), if it deems such modifications are necessary to address treatment or source water changes at the system.
 - D) If a supplier with a full or partial waiver becomes aware that it is no longer free of lead-containing or copper-containing materials, as appropriate (e.g., as a result of new construction or repairs), the supplier must notify the Agency in writing no later than 60 days after becoming aware of such a change.
- 5) Continued eligibility. If the supplier continues to satisfy the requirements of subsection (g)(4) of this Section, the waiver will be renewed automatically, unless any of the conditions listed in subsection (g)(5)(A) through (g)(5)(C) of this Section occur. A supplier whose waiver has been revoked may re-apply for a waiver at such time as it again meets the appropriate materials and monitoring criteria of subsections (g)(1) and (g)(2) of this Section.
- A) A supplier with a full waiver or a lead waiver no longer satisfies the materials criteria of subsection (g)(1)(A) of this Section or has a 90th percentile lead level greater than 0.005 mg/l.
 - B) A supplier with a full waiver or a copper waiver no longer satisfies the materials criteria of subsection (g)(1)(B) of this Section or has a 90th percentile copper level greater than 0.65 mg/l.
 - C) The State notifies the supplier, in writing, that the waiver has been

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revoked, setting forth the basis of its decision.

- 6) Requirements following waiver revocation. A supplier whose full or partial waiver has been revoked by the Agency is subject to the corrosion control treatment and lead and copper tap water monitoring requirements, as follows:
 - A) If the supplier exceeds the lead or copper action level, the supplier must implement corrosion control treatment in accordance with the deadlines specified in Section 611.351(e), and any other applicable requirements of this Subpart G.
 - B) If the supplier meets both the lead and the copper action level, the supplier must monitor for lead and copper at the tap no less frequently than once every three years using the reduced number of sampling sites specified in subsection (c) of this Section.
- 7) Pre-existing waivers. Small system supplier waivers approved by the Agency in writing prior to April 11, 2000 must remain in effect under the following conditions:
 - A) If the supplier has demonstrated that it is both free of lead-containing and copper-containing materials, as required by subsection (g)(1) of this Section and that its 90th percentile lead levels and 90th percentile copper levels meet the criteria of subsection (g)(2) of this Section, the waiver remains in effect so long as the supplier continues to meet the waiver eligibility criteria of subsection (g)(5) of this Section. The first round of tap water monitoring conducted pursuant to subsection (g)(4) of this Section must be completed no later than nine years after the last time the supplier monitored for lead and copper at the tap.
 - B) If the supplier has met the materials criteria of subsection (g)(1) of this Section but has not met the monitoring criteria of subsection (g)(2) of this Section, the supplier must conduct a round of monitoring for lead and copper at the tap demonstrating that it met the criteria of subsection (g)(2) of this Section no later than September 30, 2000. Thereafter, the waiver must remain in effect as long as the supplier meets the continued eligibility criteria of

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subsection (g)(5) of this Section. The first round of tap water monitoring conducted pursuant to subsection (g)(4) of this Section must be completed no later than nine years after the round of monitoring conducted pursuant to subsection (g)(2) of this Section.

BOARD NOTE: Derived from 40 CFR 141.86 ~~(2013)(2007), as amended at 72 Fed. Reg. 57782 (October 10, 2007).~~

(Source: Amended at 38 Ill. Reg. _____, effective _____)

Section 611.360 Reporting

A supplier must report all of the following information to the Agency in accordance with this Section.

- a) Reporting for tap, lead, and copper, and water quality parameter monitoring.
 - 1) Except as provided in subsection (a)(1)(viii) of this Section, a supplier must report the following information for all samples specified in Section 611.356 and for all water quality parameter samples specified in Section 611.357 within ten days of the end of each applicable sampling period specified in Sections 611.356 and 611.357 (i.e., every six months, annually, every three years, or every nine years). For a monitoring period with a duration less than six months, the end of the monitoring period is the last date on which samples can be collected during that period, as specified in Sections 611.356 and 611.357.
 - A) The results of all tap samples for lead and copper, including the location of each site and the criteria under Section 611.356(a)(3) through (a)(7) under which the site was selected for the supplier's sampling pool;
 - B) Documentation for each tap water lead or copper sample for which the water supplier requests invalidation pursuant to Section 611.356(f)(2);
 - C) This subsection (a)(1)(C) corresponds with 40 CFR 141.90(a)(1)(iii), a provision that USEPA removed and marked "reserved." This statement preserves structural parity with the

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federal rules;

- D) The 90th percentile lead and copper concentrations measured from among all lead and copper tap samples collected during each sampling period (calculated in accordance with Section 611.350(c)(3)), unless the Agency calculates the system's 90th percentile lead and copper levels under subsection (h) of this Section;
 - E) With the exception of initial tap sampling conducted pursuant to Section 611.356(d)(1), the supplier must designate any site that was not sampled during previous sampling periods, and include an explanation of why sampling sites have changed;
 - F) The results of all tap samples for pH, and where applicable, alkalinity, calcium, conductivity, temperature, and orthophosphate or silica collected pursuant to Section 611.357(b) through (e);
 - G) The results of all samples collected at entry points for applicable water quality parameters pursuant to Section 611.357(b) through (e).
 - H) A water supplier must report the results of all water quality parameter samples collected under Section 611.357(c) through (f) during each six-month monitoring period specified in Section 611.357(d) within the first 10 days following the end of the monitoring period, unless the Agency has specified, by a SEP ~~issued~~^{granted} pursuant to Section 611.110, a more frequent reporting requirement.
- 2) For a NTNCWS supplier, or a CWS supplier meeting the criteria of Sections 611.355(b)(7)(A) and (b)(7)(B), that does not have enough taps which can provide first-draw samples, the supplier must do either of the following:
- A) Provide written documentation to the Agency that identifies standing times and locations for enough non-first-draw samples to make up its sampling pool under Section 611.356(b)(5) by the start of the first applicable monitoring period under Section 611.356(d)

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that commenced after April 11, 2000, unless the Agency has waived prior Agency approval of non-first-draw sampling sites selected by the supplier pursuant to Section 611.356(b)(5); or

- B) If the Agency has waived prior approval of non-first-draw sampling sites selected by the supplier, identify, in writing, each site that did not meet the six-hour minimum standing time and the length of standing time for that particular substitute sample collected pursuant to Section 611.356(b)(5) and include this information with the lead and copper tap sample results required to be submitted pursuant to subsection (a)(1)(A) of this Section.
- 3) At a time specified by the Agency, by a SEP issued pursuant to Section 611.110, or if no specific time is designated by the Agency, then as early as possible prior to the addition of a new source or any change in water treatment, a water supplier deemed to have optimized corrosion control under Section 611.351(b)(3), a water supplier subject to reduced monitoring pursuant to Section 611.356(d)(4), or a water supplier subject to a monitoring waiver pursuant to Section 611.356(g), must submit written documentation to the Agency describing the change or addition.
- 4) Any small system supplier applying for a monitoring waiver under Section 611.356(g), or subject to a waiver granted pursuant to Section 611.356(g)(3), must provide the following information to the Agency in writing by the specified deadline:
- A) By the start of the first applicable monitoring period in Section 611.356(d), any small water system supplier applying for a monitoring waiver must provide the documentation required to demonstrate that it meets the waiver criteria of Sections 611.356(g)(1) and (g)(2).
 - B) No later than nine years after the monitoring previously conducted pursuant to Section 611.356(g)(2) or Section 611.356(g)(4)(A), each small system supplier desiring to maintain its monitoring waiver must provide the information required by Sections 611.356(g)(4)(A) and (g)(4)(B).
 - C) No later than 60 days after it becomes aware that it is no longer

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free of lead-containing or copper-containing material, as appropriate, each small system supplier with a monitoring waiver must provide written notification to the Agency, setting forth the circumstances resulting in the lead-containing or copper-containing materials being introduced into the system and what corrective action, if any, the supplier plans to remove these materials.

- D) By October 10, 2000, any small system supplier with a waiver granted prior to April 11, 2000 and that had not previously met the requirements of Section 611.356(g)(2) must have provided the information required by that subsection.
- 5) Each GWS supplier that limits water quality parameter monitoring to a subset of entry points under Section 611.357(c)(3) must provide, by the commencement of such monitoring, written correspondence to the Agency that identifies the selected entry points and includes information sufficient to demonstrate that the sites are representative of water quality and treatment conditions throughout the system.
- b) Reporting for source water monitoring.
- 1) A supplier must report the sampling results for all source water samples collected in accordance with Section 611.358 within ten days of the end of each source water sampling period (i.e., annually, per compliance period, per compliance cycle) specified in Section 611.358.
 - 2) With the exception of the first round of source water sampling conducted pursuant to Section 611.358(b), a supplier must specify any site that was not sampled during previous sampling periods, and include an explanation of why the sampling point has changed.
- c) Reporting for corrosion control treatment.
- By the applicable dates under Section 611.351, a supplier must report the following information:
- 1) For a supplier demonstrating that it has already optimized corrosion control, the information required by Section 611.352(b)(2) or (b)(3).

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- 2) For a supplier required to optimize corrosion control, its recommendation regarding optimal corrosion control treatment pursuant to Section 611.352(a).
 - 3) For a supplier required to evaluate the effectiveness of corrosion control treatments pursuant to Section 611.352(c), the information required by Section 611.352(c).
 - 4) For a supplier required to install optimal corrosion control approved by the Agency pursuant to Section 611.352(d), a copy of the Agency permit letter, which acts as certification that the supplier has completed installing the permitted treatment.
- d) Reporting for source water treatment. On or before the applicable dates in Section 611.353, a supplier must provide the following information to the Agency:
- 1) If required by Section 611.353(b)(1), its recommendation regarding source water treatment; or
 - 2) For suppliers required to install source water treatment pursuant to Section 611.353(b)(2), a copy of the Agency permit letter, which acts as certification that the supplier has completed installing the treatment approved by the Agency within 24 months after the Agency approved the treatment.
- e) Reporting for lead service line replacement. A supplier must report the following information to the Agency to demonstrate compliance with the requirements of Section 611.354:
- 1) No later than 12 months after the end of a monitoring period in which a supplier exceeds the lead action level in sampling referred to in Section 611.354(a), the supplier must submit each of the following to the Agency in writing:
 - A) The material evaluation conducted as required by Section 611.356(a);
 - B) Identify the initial number of lead service lines in its distribution

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system at the time the supplier exceeds the lead action level; and

- C) Provide the Agency with the supplier's schedule for annually replacing at least seven percent of the initial number of lead service lines in its distribution system.
- 2) No later than 12 months after the end of a monitoring period in which a supplier exceeds the lead action level in sampling referred to in Section 611.354(a), and every 12 months thereafter, the supplier must demonstrate to the Agency in writing that the supplier has done either of the following:
- A) That the supplier has replaced, in the previous 12 months, at least seven percent of the initial number of lead service lines in its distribution system (or any greater number of lines specified by the Agency pursuant to Section 611.354(e)); or
 - B) That the supplier has conducted sampling that demonstrates that the lead concentration in all service line samples from individual lines, taken pursuant to Section 611.356(b)(3), is less than or equal to 0.015 mg/l. This demonstration requires that the total number of lines that the supplier has replaced, combined with the total number that meet the criteria of Section 611.354(c), must equal at least seven percent of the initial number of lead lines identified pursuant to subsection (e)(1) of this Section (or the percentage specified by the Agency pursuant to Section 611.354(e)).
- 3) The annual letter submitted to the Agency pursuant to subsection (e)(2) of this Section must contain the following information:
- A) The number of lead service lines originally scheduled to be replaced during the previous year of the supplier's replacement schedule;
 - B) The number and location of each lead service line actually replaced during the previous year of the supplier's replacement schedule; and
 - C) If measured, the water lead concentration from each lead service line sampled pursuant to Section 611.356(b)(3) and the location of

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each lead service line sampled, the sampling method used, and the date of sampling.

- 4) Any supplier that collects lead service line samples following partial lead service line replacement required by Section 611.354 must report the results to the Agency within the first ten days of the month following the month in which the supplier receives the laboratory results, or as specified by the Agency. The Agency may, by a SEP ~~issued~~granted pursuant to Section 611.110, eliminate this requirement to report these monitoring results. A supplier must also report any additional information as specified by the Agency, and in a time and manner prescribed by the Agency, to verify that all partial lead service line replacement activities have taken place.
- f) Reporting for public education program.
- 1) Any water supplier that is subject to the public education requirements in Section 611.355 must, within ten days after the end of each period in which the supplier is required to perform public education in accordance with Section 611.355(b), send written documentation to the Agency that contains the following:
 - A) A demonstration that the supplier has delivered the public education materials that meet the content requirements in Sections 611.355(a) and the delivery requirements in Section 611.355(b); and
 - B) A list of all the newspapers, radio stations, television stations, and facilities and organizations to which the supplier delivered public education materials during the period in which the supplier was required to perform public education tasks.
 - 2) Unless required by the Agency, by a SEP issued pursuant to Section 611.110, a supplier that previously has submitted the information required by subsection (f)(1)(B) of this Section need not resubmit the information required by subsection (f)(1)(B) of this Section, as long as there have been no changes in the distribution list and the supplier certifies that the public education materials were distributed to the same list submitted previously.

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- 3) No later than three months following the end of the monitoring period, each supplier must mail a sample copy of the consumer notification of tap results to the Agency, along with a certification that the notification has been distributed in a manner consistent with the requirements of Section 611.355(d).
- g) Reporting of additional monitoring data. Any supplier that collects sampling data in addition to that required by this Subpart G must report the results of that sampling to the Agency within the first ten days following the end of the applicable sampling periods specified by Sections 611.356 through 611.358 during which the samples are collected.
- h) Reporting of 90th percentile lead and copper concentrations where the Agency calculates a system's 90th percentile concentrations. A water supplier is not required to report the 90th percentile lead and copper concentrations measured from among all lead and copper tap water samples collected during each monitoring period, as required by subsection (a)(1)(D) of this Section if the following is true:
 - 1) The Agency has previously notified the water supplier that it will calculate the water system's 90th percentile lead and copper concentrations, based on the lead and copper tap results submitted pursuant to subsection (h)(2)(A) of this Section, and has specified a date before the end of the applicable monitoring period by which the supplier must provide the results of lead and copper tap water samples;
 - 2) The supplier has provided the following information to the Agency by the date specified in subsection (h)(1) of this Section:
 - A) The results of all tap samples for lead and copper including the location of each site and the criteria under Section 611.356(a)(3), (a)(4), (a)(5), (a)(6), or (a)(7) under which the site was selected for the system's sampling pool, pursuant to subsection (a)(1)(A) of this Section; and
 - B) An identification of sampling sites utilized during the current monitoring period that were not sampled during previous monitoring periods, and an explanation why sampling sites have changed; and

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- 3) The Agency has provided the results of the 90th percentile lead and copper calculations, in writing, to the water supplier before the end of the monitoring period.

BOARD NOTE: Derived from 40 CFR 141.90 [\(2013\)\(2007\)](#), as amended at 72 Fed. Reg. 57782 [\(October 10, 2007\)](#).

(Source: Amended at 38 Ill. Reg. _____, effective _____)

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

Section 611.381 Analytical Requirements

- a) A supplier must use only the analytical methods specified in this Section, [each of which is incorporated by reference in Section 611.102](#), 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).

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- 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) [and 524.4](#).

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). [USEPA added USEPA OGWDW Methods, Method 524.4 as approved alternative methods for total trihalomethanes in appendix A to subpart C of 40 CFR 141 on May 31, 2013 \(at 78 Fed. Reg. 32558\)](#).

B) HAA5:

- i) By liquid-liquid extraction (diazomethane), gas chromatography, electron capture detector: Standard Methods, 19th, ~~or~~ 21st, [or 22nd](#) ed., Method 6251 B.
- 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,

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Method 557 as approved alternative methods for HAA5 in appendix A to subpart C of 40 CFR 141 on November 10, 2009 (at 74 Fed. Reg. 57908). [USEPA added Standard Methods, 22nd ed., Method 6251 B as an approved alternative method for HAA5 in appendix A to subpart C of 40 CFR 141 on May 31, 2013 \(at 78 Fed. Reg. 32558\).](#)

- 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

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ethylenediamine (EDA) per liter of sample, and the samples must be analyzed within 28 days.

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 [for daily monitoring pursuant to Section 611.382\(b\)\(2\)\(A\)\(i\)](#): Standard Methods, 19th, ~~or~~ 21st, [or 22nd](#) ed., Method 4500-ClO₂ E.
- 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.

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). [USEPA added Standard Methods, 22nd ed., Method 4500-ClO₂ E as an approved alternative method for chlorite in appendix A to subpart C of 40 CFR 141 on June 21, 2013 \(at 78 Fed. Reg. 37463\).](#)

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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:
 - 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;

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- 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:
- 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;

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- 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 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 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,

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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: Standard Methods, 19th, 20th, ~~or~~ 21st, or 22nd ed., Method 4500-Cl D, or ASTM Method D1253-86, D1253-96, D1253-03, or D1253-08;
- ii) DPD ferrous titration: Standard Methods, 19th, 20th, ~~or~~ 21st, or 22nd ed., Method 4500-Cl F;
- iii) DPD colorimetric: Standard Methods, 19th, 20th, ~~or~~ 21st, or 22nd ed., Method 4500-Cl G; ~~or~~
- iv) Syringaldazine (FACTS): Standard Methods, 19th, 20th, ~~or~~ 21st, or 22nd ed., Method 4500-Cl H; ~~or~~
- v) Test strips: ITS Method D99-003 if approved by the Agency pursuant to subsection (c)(2) of this Section; ~~or~~
- vii) Amperometric sensor: Palintest ChloroSense; ~~or~~
- viii) 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

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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). [USEPA added Standard Methods, 22nd ed., Methods 4500-CI D, F, G, and H as approved alternative methods for free chlorine in appendix A to subpart C of 40 CFR 141 on June 21, 2013 \(at 78 Fed. Reg. 37463\).](#)

B) Combined Chlorine:

- i) Amperometric titration: Standard Methods, 19th, 20th, ~~or~~ 21st, [or 22nd](#) ed., Method 4500-CI D, or ASTM Method D1253-86, D1253-96, D1253-03, or D1253-08;
- ii) DPD ferrous titration: Standard Methods, 19th, 20th, ~~or~~ 21st, [or 22nd](#) ed., Method 4500-CI F; or
- iii) DPD colorimetric: Standard Methods, 19th, 20th, ~~or~~ 21st, [or 22nd](#) ed., Method 4500-CI G.

BOARD NOTE: USEPA added Standard Methods, Methods 4500-CI 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). [USEPA added Standard Methods, 22nd ed., Methods 4500-CI D, F, and G as approved alternative methods for combined chlorine in appendix A to subpart C of 40 CFR 141 on June 21, 2013 \(at 78 Fed. Reg. 37463\).](#)

C) Total Chlorine:

- i) Amperometric titration using Standard Methods, 19th, 20th, ~~or~~ 21st, [or 22nd](#) ed., Method 4500-CI D, or ASTM Method D1253-86, D1253-96, D1253-03, or D1253-08;

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- ii) Low-level amperometric titration: Standard Methods, 19th, 20th, ~~or 21st~~, or 22nd ed., Method 4500-Cl E;
- iii) DPD ferrous titration: Standard Methods, 19th, 20th, ~~or 21st~~, or 22nd ed., Method 4500-Cl F;
- iv) DPD colorimetric: Standard Methods, 19th, 20th, ~~or 21st~~, or 22nd ed., Method 4500-Cl G; ~~or~~
- v) Iodometric electrode: Standard Methods, 19th, 20th, ~~or 21st~~, or 22nd ed., Method 4500-Cl I; ~~or~~
- vi) Amperometric sensor: Palintest ChloroSense; or.
- vii) On-line chlorine analyzer: USEPA OGWDW Methods, Method 334.0.

BOARD NOTE: USEPA added Standard Methods, Methods 4500-Cl 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). USEPA added Standard Methods, 22nd ed., Methods 4500-Cl D, E, F, G, and I as approved alternative method for total chlorine in appendix A to subpart C of 40 CFR 141 on June 21, 2013 (at 78 Fed. Reg. 37463).

D) Chlorine Dioxide:

- i) DPD: Standard Methods, 19th, 20th, or 21st ed., Method 4500-ClO₂ D;
- ii) Amperometric Method II: Standard Methods, 19th, 20th, ~~or 21st~~, or 22nd ed., Method 4500-ClO₂ E; or

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- iii) Lissamine Green spectrophotometric: 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). [USEPA added Standard Methods, 22nd ed., Method 4500-ClO₂ E as an approved alternative method for chlorine dioxide in appendix A to subpart C of 40 CFR 141 on June 21, 2013 \(at 78 Fed. Reg. 37463\).](#)

- 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.
- 2) Alternative methods available only ~~only~~ upon specific approval by the Agency.
- 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 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.

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- 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:
 - i) Standard Methods, 19th [\(Supplement\)](#), 20th, ~~or 21st~~, [or 22nd](#) ed., Method 5310 B; or
 - ii) USEPA NERL Method 415.3 (rev. 1.2).
 - B) Persulfate-ultraviolet or heated–persulfate oxidation:
 - i) Standard Methods, 19th [\(Supplement\)](#), 20th, ~~or 21st~~, [or 22nd](#) ed., Method 5310 C; or
 - ii) USEPA NERL Method 415.3 (rev. 1.2).
 - C) Wet oxidation method:

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- i) Standard Methods, 19th [\(Supplement\)](#), 20th, ~~or~~ 21st, [or 22nd](#) ed., Method 5310 D; or
 - ii) USEPA NERL Method 415.3 (rev. 1.2).
- D) Specific UV₂₅₄ absorbance: USEPA NERL Method 415.3 (rev. 1.1) or 415.3 (rev. 1.2).
- E) Inorganic carbon must be removed from the samples prior to analysis. TOC samples may not be filtered prior to analysis. TOC 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). [USEPA added Standard Methods, 22nd 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 21, 2013 \(at 78 Fed. Reg. 37463\).](#)

- 4) Specific Ultraviolet Absorbance (SUVA). SUVA is equal to the UV absorption at 254 nm (UV₂₅₄) (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 UV₂₅₄ 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 UV₂₅₄. SUVA must be determined on water prior to the addition of disinfectants/oxidants by the supplier. DOC and UV₂₅₄ samples used to determine a SUVA value must be taken at the same time and at the same location.
- A) Dissolved Organic Carbon (DOC). 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,

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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 analysis of the samples and must meet the following standards: DOC less than 0.5 mg/ℓ.

- i) High-Temperature Combustion Method: Standard Methods, 19th [\(Supplement\)ed.](#), 20th ~~ed.~~, ~~or~~ 21st or 22nd 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, [Standard Methods, 19th \(Supplement\), 20th, 21st, or 22nd ed.](#), 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 [\(Supplement\)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: USEPA added Standard Methods, Methods 5310 B, C, and D as approved alternative methods for dissolved 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 dissolved organic carbon in appendix A to subpart C of 40 CFR 141 on November 10, 2009 (at 74 Fed. Reg. 57908). [USEPA added Standard Methods, 22nd ed., Methods 5310 B, C, and D as approved alternative methods for dissolved organic carbon in appendix A to subpart C of 40 CFR 141 on June 21, 2013 \(at 78 Fed. Reg. 37463\).](#)

- B) Ultraviolet Absorption at 254 nm (UV₂₅₄) by spectrometry: Standard Methods, 19th, 20th, ~~or~~ 21st or 22nd ed., Method 5910 B or USEPA NERL Method 415.3 (rev. 1.1) or 415.3 (rev. 1.2). UV

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absorption must be measured at 253.7 nm (may be rounded off to 254 nm). Prior to analysis, UV₂₅₄ 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: USEPA added Standard Methods, 21st ed., Method 5910 B as an approved alternative method for ultraviolet ~~absorption~~[absorption at 254 nm](#) 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 ultraviolet absorbance in appendix A to subpart C of 40 CFR 141 on November (at 74 Fed. Reg. 57908). [USEPA added Standard Methods, 22nd ed., Method 5910 B as an approved alternative method for ultraviolet absorption at 254 nm in appendix A to subpart C of 40 CFR 141 on June 21, 2013 \(at 78 Fed. Reg. 37463\).](#)

- 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 and appendix A to 40 CFR 141 [\(2013\)](#)~~(2009)~~.

(Source: Amended at 38 Ill. Reg. _____, effective _____)

Section 611.382 Monitoring Requirements

- a) General requirements.
 - 1) A supplier must take all samples during normal operating conditions.
 - 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.

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- 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.
 - 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

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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 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,

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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 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.

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- 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. 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 \leq 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 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

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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: 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

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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 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

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take samples monthly at the entrance to the distribution system while the ozonation system is operating under normal conditions.

- B) 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), Method 326.0 (rev. 1.0), or Method 557 or USEPA Organic and Inorganic Methods, Method 321.8, each incorporated by reference in Section 611.102. If a supplier has qualified for reduced bromate monitoring under subsection (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, Method 326.0, 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. Until March 31, 2016, 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. Beginning April 1, 2016, 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 Sections 611.1054 through 611.1058. A Subpart B system supplier may use the results of residual disinfectant concentration sampling conducted under Section 611.532 for unfiltered systems or Section

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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 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

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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 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;

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- 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 [\(2013\)](#)~~(2012)~~.

(Source: Amended at 38 Ill. Reg. _____, effective _____)

SUBPART L: MICROBIOLOGICAL MONITORING
AND ANALYTICAL REQUIREMENTS

Section 611.526 Analytical Methodology

- a) The standard sample volume required for total coliform analysis, regardless of 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~~, or 22nd 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;

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- 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~~, or 22nd 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~~, or 22nd 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-sterilized rather than autoclaved.
- 4) ONPG-MUG test: Standard Methods, 18th, 19th, 20th, ~~or 21st~~, or 22nd 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.

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- 9) Chromocult® Method.
- 10) Colitag® Test.
- 11) Modified Colitag™ Method.

BOARD NOTE: USEPA added Standard Methods, 21st ed., Methods 9221 A, B, and D; 9222 A, B, and C; and 9223 as approved alternative methods in appendix A to subpart C of 40 CFR 141 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). [USEPA added Standard Methods, 22nd ed., Methods 9221 A and B and 9223 B as approved alternative methods for total coliforms in appendix A to subpart C of 40 CFR 141 on May 31, 2013 \(at 78 Fed. Reg. 32558\).](#)

- 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

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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, or 22nd ed., Method 9221E.
- 4) Suppliers need only determine the presence or absence of fecal coliforms; a determination of fecal coliform density is not required.

[BOARD NOTE: USEPA added Standard Methods, 22nd ed., Method 9221 E as an approved alternative method for fecal coliforms in appendix A to subpart C of 40 CFR 141 on May 31, 2013 \(at 78 Fed. Reg. 32558\).](#)

- 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 ±2° 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, or 22nd 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.

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- 3) Minimal Medium ONPG-MUG (MMO-MUG) Test, as set forth in Appendix D of this Part. (The Autoanalysis Colilert System ([Colisure Test](#)) 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).
- 5) The membrane filter method with MI agar.
- 6) The E*Colite® Test.
- 7) The m-ColiBlue24® Test.
- 8) ReadyCult® 2000.
- 9) Chromocult® Method.
- 10) Colitag® Test.
- 11) ONPG-MUG Test: Standard Methods, 20th, ~~or~~ 21st, or 22nd 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). [Because Standard Methods, 21st ed., Method 9223 B is the same version as Standard Methods Online, Method 9223 B-97, the Board has not listed the Standard Methods Online version separately. USEPA added Standard Methods, 22nd ed., Method 9223 B as an approved](#)

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[alternative method for E. coli in appendix A to subpart C of 40 CFR 141 on May 31, 2013 \(at 78 Fed. Reg. 32558\).](#)

- 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) and appendix A to 40 CFR 141 [\(2013\)](#)~~(2009)~~.

(Source: Amended at 38 Ill. Reg. _____, effective _____)

Section 611.528 Transition from Subpart L to Subpart AA Requirements

[The provisions of Sections 611.521 and 611.524 apply until March 31, 2016. The provisions of Sections 611.522, 611.523, 611.525, 611.526 and 611.527 apply until all required repeat monitoring under Section 611.522 and fecal coliform or E. coli testing under Section 611.525 that was initiated by a total coliform-positive sample taken before April 1, 2016 is completed, as well as analytical method, reporting, recordkeeping, public notification, and consumer confidence report requirements associated with that monitoring and testing. Beginning April 1, 2016, the provisions of Subpart AA of this Part apply, with suppliers required to begin regular monitoring at the same frequency as the system-specific frequency required on March 31, 2016.](#)

BOARD NOTE: Derived from 40 CFR 141.21(h) [\(2013\)](#).

(Source: Added at 38 Ill. Reg. _____, effective _____)

Section 611.531 Analytical Requirements

The analytical methods specified in this Section, or alternative methods approved by the Agency

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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 as follows:
 - 1) The supplier must conduct analyses for pH in accordance with one of the methods listed at Section 611.611; and
 - 2) The supplier must conduct analyses for 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, or 22nd 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 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

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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~~, or 22nd 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). [USEPA added Standard Methods, 22nd ed., Methods 9221 A, B, and C and 9223 B as approved alternative methods for total coliform in appendix A to subpart C of 40 CFR 141 on June 21, 2013 \(at 78 Fed. Reg. 37463\).](#)

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.

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- i) Fecal coliform procedure: Standard Methods, 18th, 19th, 20th, ~~or~~ 21st, or 22nd 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, or 22nd 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). [USEPA added Standard Methods, 22nd 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 21, 2013 \(at 78 Fed. Reg. 37463\).](#)

C) Heterotrophic bacteria.

- i) Pour plate method: Standard Methods, 18th, 19th, 20th, ~~or~~ 21st, or 22nd 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). [USEPA added Standard Methods, 22nd ed., Method 9215 B as an approved alternative method for heterotrophic bacteria in appendix A to subpart C of 40 CFR 141 on June 21, 2013 \(at 78 Fed. Reg. 37463\).](#)

D) Turbidity.

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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~~, [or 22nd](#) ed., Method 2130 B.
- 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). [USEPA added Standard Methods, 22nd ed., Method 2130 B as an approved alternative method for turbidity in appendix A to subpart C of 40 CFR 141 on June 21, 2013 \(at 78 Fed. Reg. 37463\).](#)

- E) Temperature: Standard Methods, 18th, 19th, 20th, or 21st ed., Method 2550.
- b) A supplier must measure residual disinfectant concentrations with one of the

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following analytical methods:

- 1) Free chlorine.
 - A) Amperometric Titration.
 - i) Standard Methods, 18th, 19th, 20th, ~~or~~ 21st, or 22nd ed., Method 4500-CI D.
 - ii) ASTM Method D1253-03 or D1253-08.
 - B) DPD Ferrous Titrimetric: Standard Methods, 18th, 19th, 20th, ~~or~~ 21st, or 22nd ed., Method 4500-CI F.
 - C) DPD Colimetric: Standard Methods, 18th, 19th, 20th, ~~or~~ 21st, or 22nd ed., Method 4500-CI G.
 - D) Syringaldazine (FACTS): Standard Methods, 18th, 19th, 20th, ~~or~~ 21st, or 22nd ed., Method 4500-CI 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-CI D, F, G, and H; Method 4500-CIO₂ C and E as approved alternative methods for free chlorine in appendix A to subpart C of 40 CFR 141, added 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). [USEPA added Standard Methods, 22nd ed., Methods 4500-CI B, F, G, and H as approved alternative methods for free chlorine in appendix A to subpart C of 40 CFR 141 on June 21, 2013 \(at 78 Fed. Reg. 37463\).](#)

- 2) Total chlorine.

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- A) Amperometric Titration:
- i) Standard Methods, 18th, 19th, 20th, ~~or 21st~~, or 22nd ed., Method 4500-CI D.
 - ii) ASTM Method D1253-03 or D1253-08.
- B) Amperometric Titration (low level measurement): Standard Methods, 18th, 19th, 20th, ~~or 21st~~, or 22nd ed., Method 4500-CI E.
- C) DPD Ferrous Titrimetric: Standard Methods, 18th, 19th, 20th, ~~or 21st~~, or 22nd ed., Method 4500-CI F.
- D) DPD Colimetric: Standard Methods, 18th, 19th, 20th, ~~or 21st~~, or 22nd ed., Method 4500-CI G.
- E) Iodometric Electrode: Standard Methods, 18th, 19th, 20th, ~~or 21st~~, or 22nd 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, added 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). [USEPA added Standard Methods, 22nd 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 21, 2013 \(at 78 Fed. Reg. 37463\).](#)

3) Chlorine dioxide.

- A) Amperometric Titration: Standard Methods, 18th, 19th, 20th, ~~or 21st~~, or 22nd ed., Method 4500-CI O₂ 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, or 22nd ed., Method 4500-O₃ B.

BOARD NOTE: USEPA added Standard Methods, 22nd ed., Method 4500-O₃ B as an approved alternative method for ozone in appendix A to subpart C of 40 CFR 141 on May 31, 2013 (at 78 Fed. Reg. 32558).

- 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, added on June 3, 2008 (at 73 Fed. Reg. 31616). USEPA added Standard Methods, 22nd ed., Methods 4500-ClO₂ C and E as approved alternative

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[methods for chlorine dioxide in appendix A to subpart C of 40 CFR 141 on May 31, 2013 \(at 78 Fed. Reg. 32558\).](#)

BOARD NOTE: Derived from 40 CFR 141.74(a) and appendix A to 40 CFR 141 [\(2013\)](#)~~(2009)~~.

(Source: Amended at 38 Ill. Reg. _____, effective _____)

Section 611.532 Unfiltered PWSs

A supplier that uses a surface water source and does not provide filtration treatment must monitor, unless the Agency has determined, pursuant to Section 611.211, that filtration is required. If the Agency determines that filtration is required, it must specify alternative monitoring requirements, as appropriate, until filtration is in place. A supplier that uses a groundwater source under the direct influence of surface water and which does not provide filtration treatment must monitor within six months after the Agency has determined, pursuant to Section 611.212, that the groundwater source is under the direct influence of surface water unless the Agency has determined that filtration is required, in which case the Agency must specify alternative monitoring requirements, as appropriate, until filtration is in place.

- a) Fecal coliform or total coliform density measurements as required by Section 611.231(a) must be performed on representative source water samples immediately prior to the first or only point of disinfectant application. The supplier must sample for fecal or total coliforms at the minimum frequency specified in Table B of this Part each week the supplier serves water to the public. Also, one fecal or total coliform density measurement must be made every day the supplier serves water to the public and the turbidity of the source water exceeds 1 NTU (these samples count towards the weekly coliform sampling requirement) unless the Agency determines that the supplier, for logistical reasons outside the supplier's control cannot have the sample analyzed within 30 hours of collection.
- b) Turbidity measurements as required by Section 611.231(b) must be performed on representative grab samples of source water immediately prior to the first or only point of disinfectant application every four hours (or more frequently) that the supplier serves water to the public. A supplier may substitute continuous turbidity monitoring for grab sample monitoring if it validates the continuous measurement for accuracy on a regular basis using a protocol approved by a SEP issued pursuant to Section 611.110.

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- c) The total inactivation ratio for each day that the supplier is in operation must be determined based on the $CT_{99.9}$ values in Appendix B of this Part, as appropriate. The parameters necessary to determine the total inactivation ratio must be monitored as follows:
- 1) The temperature of the disinfected water must be measured at least once per day at each RDC sampling point.
 - 2) If the supplier uses chlorine, the pH of the disinfected water must be measured at least once per day at each chlorine RDC sampling point.
 - 3) The disinfectant contact times ("T") must be determined for each day during peak hourly flow.
 - 4) The RDCs ("C") of the water before or at the first customer must be measured each day during peak hourly flow.
 - 5) If a supplier uses a disinfectant other than chlorine, the supplier may monitor by other methods approved pursuant to Section 611.241(a)(1) and (a)(2).
- d) The total inactivation ratio must be calculated as follows:
- 1) If the supplier uses only one point of disinfectant application, the supplier may determine the total inactivation ratio based on either of the following two methods:
 - A) One inactivation ratio ($A_i = CT_{\text{calc}} / CT_{99.9}$) is determined before or at the first customer during peak hourly flow and, if the A_i is greater than 1.0, the 99.9 percent *Giardia lamblia* inactivation requirement has been achieved; or
 - B) Successive A_i values, representing sequential inactivation ratios, are determined between the point of disinfectant application and a point before or at the first customer during peak hourly flow. Under this alternative, the following method must be used to calculate the total inactivation ratio:
 - i) Determine the following, for each sequence:

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

- ii) Add the A_i values together, as follows:

$$B = \sum(A_i)$$

- iii) If B is greater than 1.0, the 99.9 percent *Giardia lamblia* inactivation requirement has been achieved.

- 2) If the supplier uses more than one point of disinfectant application before or at the first customer, the supplier must determine the CT value of each disinfection sequence immediately prior to the next point of disinfectant application during peak hourly flow. The A_i value of each sequence and B must be calculated using the method in subsection (d)(1)(B) of this Section to determine if the supplier is in compliance with Section 611.241.
- 3) Although not required, the total percent inactivation (PI) for a supplier with one or more points of RDC monitoring may be calculated as follows:

$$PI = 100 - \frac{100}{10^{3B}}$$

- e) The RDC of the water entering the distribution system must be monitored continuously, and the lowest value must be recorded each day, except that if there is a failure in the continuous monitoring equipment, grab sampling every four hours may be conducted in lieu of continuous monitoring, but for no more than five working days following the failure of the equipment, and suppliers serving 3,300 or fewer persons may take grab samples in lieu of providing continuous monitoring on an ongoing basis at the frequencies prescribed in Table C of this Part. If at any time the RDC falls below 0.2 mg/ℓ in a system using grab sampling in lieu of continuous monitoring, the supplier must take a grab sample every four hours until the RDC is equal to or greater than 0.2 mg/ℓ.
- f) Points of measurement.
- 1) Until March 31, 2016,The RDC must be measured at least at the same points in the distribution system and at the same time as total coliforms are sampled, as specified in Subpart L of this Section, ~~except that the~~

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Beginning April 1, 2016, the RDC must be measured at least at the same points in the distribution system and at the same time as total coliforms are sampled, as specified in Sections 611.1054 through 611.1058. The

Agency must allow a supplier that uses both a surface water source or a groundwater source under direct influence of surface water, and a groundwater source to take disinfectant residual samples at points other than the total coliform sampling points if the Agency determines, by a SEP issued pursuant to Section 611.110, that such points are more representative of treated (disinfected) water quality within the distribution system. HPC may be measured in lieu of RDC.

- 2) If the Agency determines, pursuant to Section 611.213, that a supplier has no means for having a sample analyzed for HPC, measured as specified in subsection (a) of this Section, the requirements of subsection (f)(1) of this Section do not apply to that supplier.

BOARD NOTE: Derived from 40 CFR 141.74(b) (2013)~~(2003)~~.

(Source: Amended at 38 Ill. Reg. _____, effective _____)

Section 611.533 Filtered PWSs

A supplier that uses a surface water source or a groundwater source under the influence of surface water and provides filtration treatment must monitor in accordance with this Section.

- a) Turbidity measurements as required by Section 611.250 must be performed on representative samples of the PWS's filtered water every four hours (or more frequently) that the supplier serves water to the public. A supplier may substitute continuous turbidity monitoring for grab sample monitoring if it validates the continuous measurement for accuracy on a regular basis using a protocol approved by a SEP issued pursuant to Section 611.110. For any suppliers using slow sand filtration or filtration treatment other than conventional treatment, direct filtration, or diatomaceous earth filtration, the Agency shall, by special exception permit condition, reduce the sampling frequency to once per day if it determines that less frequent monitoring is sufficient to indicate effective filtration performance. For suppliers serving 500 or fewer persons, the Agency shall, by a SEP issued pursuant to Section 611.110, reduce the turbidity sampling frequency to once per day, regardless of the type of filtration treatment used, if the Agency determines that less frequent monitoring is sufficient to indicate effective

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filtration performance.

- b) RDC entering distribution system.
- 1) Suppliers serving more than 3300 persons. The RDC of the water entering the distribution system must be monitored continuously, and the lowest value must be recorded each day, except that, if there is a failure in the continuous monitoring equipment, grab sampling every four hours may be conducted in lieu of continuous monitoring, but for no more than five working days following the failure of the equipment.
 - 2) Suppliers serving 3,300 or fewer persons may take grab samples in lieu of providing continuous monitoring on an ongoing basis at the frequencies each day prescribed in Table C. If at any time the RDC falls below 0.2 mg/ℓ in a system using grab sampling in lieu of continuous monitoring, the supplier must take a grab sample every four hours until RDC is equal to or greater than 0.2 mg/ℓ.
- c) Points of measurement.
- 1) Until March 31, 2016, theThe RDC must be measured at least at the same points in the distribution system and at the same time as total coliforms are sampled, as specified in Sections 611.521 through 611.527, ~~except that~~ the Beginning April 1, 2016, the RDC must be measured at least at the same points in the distribution system and at the same time as total coliforms are sampled, as specified in Sections 611.1054 through 611.1058. The Agency must allow a supplier that uses both a surface water source or a groundwater source under direct influence of surface water, and a groundwater source, to take RDC samples at points other than the total coliform sampling points if the Agency determines that such points are more representative of treated (disinfected) water quality within the distribution system. HPC, measured as specified in Section 611.531(a), may be measured in lieu of RDC.
 - 2) Subsection (c)(1) of this Section does not apply if the Agency determines, pursuant to Section 611.213(c), that a system has no means for having a sample analyzed for HPC by a certified laboratory under the requisite time and temperature conditions specified by Section 611.531(a) and that the supplier is providing adequate disinfection in the distribution system.

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BOARD NOTE: Derived from 40 CFR 141.74(c) [\(2013\)](#)~~(2003)~~.

(Source: Amended at 38 Ill. Reg. _____, effective _____)

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 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; 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, D1067-02 B, ~~or~~ D1067-06 B, or D1067-11 B;

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- ii) Standard Methods, 18th, 19th, 20th, ~~or 21st~~, or 22nd ed., Method 2320 B; or
- iii) Standard Methods Online, Method 3113 B-04.

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). USEPA added ASTM Method D1067-06 B and Standard Methods Online, Method 3113 B-04 as approved alternative methods for alkalinity in appendix A to subpart C of 40 CFR 141 on June 24, 2011 (at 76 Fed. Reg. 37014). USEPA added Standard Methods, 22nd ed., Method 2320 B and ASTM Method D1067-11 B as approved alternative methods for alkalinity in appendix A to subpart C of 40 CFR 141 on May 31, 2013 (at 78 Fed. Reg. 32558).

2) Antimony.

- A) Inductively coupled plasma-mass spectrometry: USEPA Environmental Metals Methods, Method 200.8 (rev. 5.3).
- B) Atomic absorption, hydride technique: ASTM Method D3697-92, D3697-02, or D3697-07.
- C) Atomic absorption, platform furnace technique: USEPA Environmental Metals Methods, Method 200.9 (rev.2.2).
- D) Atomic absorption, furnace technique:
 - i) Standard Methods, 18th, 19th, ~~or 21st~~, or 22nd ed., Method 3113 B; or
 - ii) Standard Methods Online, Method 3113 B-04.
- E) Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES): USEPA NERL Method 200.5.

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BOARD NOTE: USEPA added Standard Methods, 21st ed., Method 3113B and USEPA NERL Method 200.5 as approved alternative methods for antimony in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616). USEPA added ASTM Method D3697-07 as an approved alternative method for antimony in appendix A to subpart C of 40 CFR 141 on November 10, 2009 (at 74 Fed. Reg. 57908). USEPA added Standard Methods Online, Method 3113 B-04 as an approved alternative method for antimony in appendix A to subpart C of 40 CFR 141 on June 24, 2011 (at 76 Fed. Reg. 37014). USEPA added Standard Methods, 22nd ed., Method 3113 B as an approved alternative method for antimony in appendix A to subpart C of 40 CFR 141 on May 31, 2013 (at 78 Fed. Reg. 32558).

3) Arsenic.

BOARD NOTE: If ultrasonic nebulization is used in the determination of arsenic by Method 200.8, the arsenic must be in the pentavalent state to provide uniform signal response. For direct analysis of arsenic with Method 200.8 using ultrasonic nebulization, samples and standards must contain one mg/l of sodium hypochlorite.

- 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).
- C) Atomic absorption, furnace technique.
 - i) ASTM Method D2972-97 C, D2972-03 C, or D2972-08 C;
 - ii) Standard Methods, 18th, 19th, ~~or 21st~~, or 22nd ed., Method 3113 B; or
 - iii) Standard Methods Online, Method 3113 B-04.
- D) Atomic absorption, hydride technique.
 - i) ASTM Method D2972-97 B, D2972-03 C, or D2972-08 B;

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- ii) Standard Methods, 18th, 19th, or 21st ed., Method 3114 B; or
 - iii) Standard Methods Online, Method 3114 B-04.
- E) Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES): USEPA NERL Method 200.5.

BOARD NOTE: USEPA added Standard Methods, 21st ed., Methods 3113 B and 3114 B 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). USEPA added Standard Methods Online, Method 3113 B-04 and Method ~~3114 B-09~~3114 B-04 as approved alternative methods for arsenic in appendix A to subpart C of 40 CFR 141 on June 24, 2011 (at 76 Fed. Reg. 37014). USEPA added Standard Methods, 22nd ed., Methods 3113 B and 3114 B as approved alternative methods for arsenic in appendix A to subpart C of 40 CFR 141 on May 31, 2013 (at 78 Fed. Reg. 32558). Because Standard Methods, 22nd ed., Method 3114 B is the same version as Standard Methods Online 3114 B-09, the Board has not listed the Standard Methods Online version separately.

- 4) Asbestos: Transmission electron microscopy: USEPA Asbestos Method-100.1 or USEPA Asbestos Method-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, or 22nd ed., Method 3120 B.
 - B) Inductively coupled plasma-mass spectrometry: USEPA Environmental Metals Methods, Method 200.8 (rev. 5.3).

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- C) Atomic absorption, direct aspiration technique: Standard Methods, 18th, 19th, ~~or 21st~~, or 22nd ed., Method 3111 D.
- D) Atomic absorption, furnace technique:
- i) Standard Methods, 18th, 19th, ~~or 21st~~, or 22nd ed., Method 3113 B; or
- ii) Standard Methods Online, Method 3113 B-04.
- E) Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES): USEPA NERL 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). USEPA added Standard Methods Online, Method 3113 B-04 as an approved alternative method for barium in appendix A to subpart C of 40 CFR 141 on June 24, 2011 (at 76 Fed. Reg. 37014). USEPA added Standard Methods, 22nd ed., Methods 3111 D, 3113 B, and 3120 B as approved alternative methods for barium in appendix A to subpart C of 40 CFR 141 on May 31, 2013 (at 78 Fed. Reg. 32558).

- 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~~, or 22nd ed., Method 3120 B.
- 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).

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- D) Atomic absorption, furnace technique.
- i) ASTM Method D3645-97 B, D3645-03 B, or D3645-08 B;
 - ii) Standard Methods, 18th, 19th, ~~or 21st~~, or 22nd ed., Method 3113 B; or
 - iii) Standard Methods Online, Method 3113 B-04.
- E) Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES): USEPA NERL 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). USEPA added Standard Methods Online, Method 3113 B-04 as an approved alternative method for beryllium in appendix A to subpart C of 40 CFR 141 on June 24, 2011 (at 76 Fed. Reg. 37014). [USEPA added Standard Methods, 22nd ed., Methods 3113 B and 3120 B as approved alternative methods for beryllium in appendix A to subpart C of 40 CFR 141 on May 31, 2013 \(at 78 Fed. Reg. 32558\).](#)

- 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:

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- i) Standard Methods, 18th, 19th, ~~or 21st~~, or 22nd ed., Method 3113 B; or
 - ii) Standard Methods Online, Method 3113 B-04.
- E) Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES): USEPA NERL 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). USEPA added Standard Methods Online, Method 3113 B-04 as an approved alternative method for cadmium in appendix A to subpart C of 40 CFR 141 on June 24, 2011 (at 76 Fed. Reg. 37014). USEPA added Standard Methods, 22nd ed., Method 3113 B as an approved alternative method for cadmium in appendix A to subpart C of 40 CFR 141 on May 31, 2013 (at 78 Fed. Reg. 32558).

- 8) Calcium.
- A) EDTA titrimetric.
 - i) ASTM Method D511-93 A, D511-03 A, or D511-09 A; or
 - ii) Standard Methods, 18th or 19th ed., Method 3500-Ca D or Standard Methods, 20th, ~~or 21st~~, or 22nd ed., Method 3500-Ca B.
 - B) Atomic absorption, direct aspiration.
 - i) ASTM Method D511-93 B, D511-03 B, or D511-09 B; or
 - ii) Standard Methods, 18th, 19th, ~~or 21st~~, or 22nd ed., Method 3111 B.
 - C) Inductively coupled plasma.
 - i) USEPA Environmental Metals Methods, Method 200.7 (rev. 4.4); or

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ii) Standard Methods, 18th, 19th, 20th, ~~or 21st~~, or 22nd ed., Method 3120 B.

D) Ion chromatography: ASTM Method D6919-03 or D6919-09.

E) Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES): USEPA NERL 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). USEPA added ASTM Method D6919-09 as an approved alternative method for calcium in appendix A to subpart C of 40 CFR 141 on June 24, 2011 (at 76 Fed. Reg. 37014). USEPA added Standard Methods, 22nd ed., Methods 3111 B, 3120 B, and 3500-Ca B as approved alternative methods for calcium in appendix A to subpart C of 40 CFR 141 on May 31, 2013 (at 78 Fed. Reg. 32558).

9) Chromium.

A) Inductively coupled plasma.

i) USEPA Environmental Metals Methods, Method 200.7 (rev. 4.4); or

ii) Standard Methods, 18th, 19th, 20th, ~~or 21st~~, or 22nd ed., Method 3120 B.

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) Standard Methods, 18th, 19th, ~~or 21st~~, or 22nd ed., Method 3113 B; or
 - ii) Standard Methods Online, Method 3113 B-04.
- E) Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES): USEPA NERL 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). USEPA added Standard Methods Online, Method 3113 B-04 as an approved alternative method for chromium in appendix A to subpart C of 40 CFR 141 on June 24, 2011 (at 76 Fed. Reg. 37014). USEPA added Standard Methods, 22nd ed., Methods 3113 B and 3120 B as approved alternative methods for chromium in appendix A to subpart C of 40 CFR 141 on May 31, 2013 (at 78 Fed. Reg. 32558).

10) Copper.

- A) Atomic absorption, furnace technique.
- i) ASTM Method D1688-95 C, D1688-02 C, or D1688-07 C;
 - ii) Standard Methods, 18th, 19th, ~~or 21st~~, or 22nd ed., Method 3113 B; or
 - iii) Standard Methods Online, Method 3113 B-04.
- B) Atomic absorption, direct aspiration.
- i) ASTM Method D1688-95 A, D1688-02 A, or D1688-07 A; or
 - ii) Standard Methods, 18th, 19th, ~~or 21st~~, or 22nd ed., Method 3111 B.

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- C) Inductively coupled plasma.
- i) USEPA Environmental Metals Methods, Method 200.7 (rev. 4.4); or
 - ii) Standard Methods, 18th, 19th, 20th, ~~or 21st~~, or 22nd ed., Method 3120 B.
- 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 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). USEPA added Standard Methods Online, Method 3113 B-04 as an approved alternative method for copper in appendix A to subpart C of 40 CFR 141 on June 24, 2011 (at 76 Fed. Reg. 37014). USEPA added Standard Methods, 22nd ed., Methods 3111 B, 3113 B, and 3120 B as approved alternative methods for copper in appendix A to subpart C of 40 CFR 141 on May 31, 2013 (at 78 Fed. Reg. 32558).

- 11) Conductivity; Conductance.
- A) ASTM Method D1125-95(1999) A; or
 - B) Standard Methods, 18th, 19th, 20th, ~~or 21st~~, or 22nd 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

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subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616).
USEPA added Standard Methods, 22nd ed., Method 2510 B as an approved alternative method for conductivity in appendix A to subpart C of 40 CFR 141 on May 31, 2013 (at 78 Fed. Reg. 32558).

- 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 ~~D2036-06~~2036-06 B; or
- ii) Standard Methods, 18th, 19th, 20th, ~~or 21st~~, or 22nd ed., Method 4500-CN⁻ G.
- 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;
- ii) Standard Methods, 18th, 19th, 20th, ~~or 21st~~, or 22nd ed., Method 4500-CN⁻ E; or
- 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~~, or 22nd ed., Method 4500-CN⁻ F.
- E) UV/Distillation/Spectrophotometric: Kelada 01.
- F) Microdistillation/Flow Injection/Spectrophotometric: ~~QuikChem~~ QuiekChem 10-204-00-1-X.
- G) Ligand exchange and amperometry.

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- i) ASTM Method ~~D6888-04~~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-CN⁻E, 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). USEPA added Standard Methods, 22nd ed., Methods 4500-CN⁻E, F, and G as approved alternative methods for cyanide in appendix A to subpart C of 40 CFR 141 on May 31, 2013 (at 78 Fed. Reg. 32558).

- 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);
 - ii) ASTM Method D4327-97 or D4327-03;
 - iii) Standard Methods, 18th, 19th, 20th, ~~or 21st~~, or 22nd ed., Method 4110 B; or
 - iv) Hach SPADNS 2 Method 10225.
 - B) Manual distillation, colorimetric SPADNS: Standard Methods, 18th, 19th, 20th, ~~or 21st~~, or 22nd ed., Method 4500-F⁻ B and D.
 - C) Manual electrode.

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- i) ASTM Method D1179-93 B, D1179-99 B, D1179-04 B, or D1179-10B; or
 - ii) Standard Methods, 18th, 19th, 20th, ~~or 21st~~, or 22nd ed., Method 4500-F⁻ C.
- D) Automated electrode: Technicon Methods, Method 380-75WE.
- E) Automated alizarin.
- i) Standard Methods, 18th, 19th, 20th, ~~or 21st~~, or 22nd ed., Method 4500-F⁻ E; or
 - ii) Technicon Methods, Method 129-71W.
- F) Capillary ion electrophoresis: ASTM Method D6508-00(2005).

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).

BOARD NOTE: USEPA added Standard Methods, 21st ed., Methods 4110 B and 4500-F⁻ 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). USEPA added Hach SPADNS 2 Method 10225 as an approved alternative method for fluoride in appendix A to subpart C of 40 CFR 141 on June 24, 2011 (at 76 Fed. Reg. 37014). USEPA added ASTM Method D1179-10 B as an approved alternative method for fluoride in appendix A to subpart C of 40 CFR 141 on June 28, 2012 (at 77 Fed. Reg. 38523). USEPA added Standard Methods, 22nd ed., Methods 4110 B and 4500-F⁻ B, C, D, and E as approved alternative methods for fluoride in appendix A to subpart C of 40 CFR 141 on May 31, 2013 (at 78 Fed. Reg. 32558).

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- 14) Lead.
- A) Atomic absorption, furnace technique.
- i) ASTM Method D3559-96 D, D3559-03 D, or D3559-08 D;
- ii) Standard Methods, 18th, 19th, ~~or 21st~~, or 22nd ed., Method 3113 B; or
- iii) Standard Methods Online, Method 3113 B-04.
- 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) Differential Pulse Anodic Stripping Voltammetry: Palintest Method 1001.
- E) Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES): USEPA NERL 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). USEPA added Standard Methods Online, Method 3113 B-04 as an approved alternative method for lead in appendix A to subpart C of 40 CFR 141 on June 24, 2011 (at 76 Fed. Reg. 37014). USEPA added Standard Methods, 22nd ed., Method 3113 B as an approved alternative method for lead in appendix A to subpart C of 40 CFR 141 on May 31, 2013 (at 78 Fed. Reg. 32558).

- 15) Magnesium.
- A) Atomic absorption.

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- i) ASTM Method D511-93 B, D511-03 B, or D511-09 B; or
 - ii) Standard Methods, 18th, 19th, ~~or 21st~~, or 22nd ed., Method 3111 B.
- B) Inductively coupled plasma.
- i) USEPA Environmental Metals Methods, Method 200.7 (rev. 4.4); or
 - ii) Standard Methods, 18th, 19th, 20th, ~~or 21st~~, or 22nd ed., Method 3120 B.
- C) Complexation titrimetric.
- i) ASTM Method D511-93 A, D511-03 A, or D511-09 A; or
 - ii) Standard Methods, 18th or 19th ed., Method 3500-Mg E or Standard Methods, 20th, ~~or 21st~~, or 22nd ed., Method 3500-Mg B.
- D) Ion chromatography: ASTM Method D6919-03 or D6919-09.
- E) Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES): USEPA NERL 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 magnesium in appendix A to subpart C of 40 CFR 141 on November 10, 2009 (at 74 Fed. Reg. 57908). USEPA added ASTM Method D6919-09 as an approved alternative method for magnesium in appendix A to subpart C of 40 CFR 141 on June 24, 2011 (at 76 Fed. Reg. 37014). USEPA added Standard Methods, 22nd ed., Methods 3111 B, 3120 B, and 3500-Mg B as approved alternative methods for magnesium in appendix A to subpart C of 40 CFR 141 on May 31, 2013 (at 78 Fed. Reg. 32558).

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- 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~~, or 22nd ed., Method 3112 B;
~~iv) Standard Methods Online, Method 3112 B-09.~~
- 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).

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). USEPA added Standard Methods Online, Method 3112 B-09 as an approved alternative method for mercury in appendix A to subpart C of 40 CFR 141 on June 28, 2012 (at 77 Fed. Reg. 38523). USEPA added Standard Methods, 22nd ed., Method 3112 B-09 as an approved alternative method for mercury in appendix A to subpart C of 40 CFR 141 on May 31, 2013 (at 78 Fed. Reg. 32558). Because Standard Methods, 22nd ed., Method 3112 B is the same version as Standard Methods Online 3112 B-09, the Board lists only Standard Methods, 22nd ed., Method 3112 B.

- 17) Nickel.
- A) Inductively coupled plasma.
- i) USEPA Environmental Metals Methods, Method 200.7 (rev. 4.4); or

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- ii) Standard Methods, 18th, 19th, 20th, ~~or 21st~~, or 22nd ed., Method 3120 B.
- 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~~, or 22nd ed., Method 3111 B.
- E) Atomic absorption, furnace technique:
 - i) Standard Methods, 18th, 19th, ~~or 21st~~, or 22nd ed., Method 3113 B; or
 - ii) Standard Methods Online, Method 3113 B-04.
- F) Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES): USEPA NERL 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). USEPA added Standard Methods Online, Method 3113 B-04 as an approved alternative method for nickel in appendix A to subpart C of 40 CFR 141 on June 24, 2011 (at 76 Fed. Reg. 37014). USEPA added Standard Methods, 22nd ed., Methods 3111 B, 3113 B, and 3120 B as approved alternative methods for nickel in appendix A to subpart C of 40 CFR 141 on May 31, 2013 (at 78 Fed. Reg. 32558).

- 18) Nitrate.
 - A) Ion chromatography.

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- 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~~, or 22nd ed., Method 4110 B; or
 - iv) Waters Test Method B-1011, available from Millipore Corporation.
- 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~~, or 22nd ed., Method 4500-NO₃⁻ F.
- C) Ion selective electrode.
- i) Standard Methods, 18th, 19th, 20th, ~~or 21st~~, or 22nd ed., Method 4500-NO₃⁻ D; or
 - ii) Technical Bulletin 601.
- D) Manual cadmium reduction.
- i) ASTM Method D3867-90 B; or
 - ii) Standard Methods, 18th, 19th, 20th, ~~or 21st~~, or 22nd ed., Method 4500-NO₃⁻ E.
- E) Capillary ion electrophoresis: ASTM Method D6508-00(2005).
- F) Reduction-colorimetric: Systea Easy (1-Reagent).

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G) Direct colorimetric: Hach TNTplus 835/836 Method 10206.

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). USEPA added Hach TNTplus 835/836 Method 10206 as an approved alternative method for nitrate in appendix A to subpart C of 40 CFR 141 on June 24, 2011 (at 76 Fed. Reg. 37014). [USEPA added Standard Methods, 22nd ed., Methods 4500-NO₃⁻ D, E, and F and 4110 B as approved alternative methods for nitrate in appendix A to subpart C of 40 CFR 141 on May 31, 2013 \(at 78 Fed. Reg. 32558\).](#)

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~~, or 22nd ed., Method 4110 B; or
- iv) Waters Test Method B-1011, available from Millipore Corporation.

B) Automated cadmium reduction.

- i) USEPA Environmental Inorganic Methods, Method 353.2 (rev. 2.0);
- ii) ASTM Method D3867-90 A; or

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- iii) Standard Methods, 18th, 19th, 20th, ~~or 21st~~, or 22nd ed., Method 4500-NO₃⁻ F.
- C) Manual cadmium reduction.
 - i) ASTM Method D3867-90 B; or
 - ii) Standard Methods, 18th, 19th, 20th, ~~or 21st~~, or 22nd ed., Method 4500-NO₃⁻ E.
- D) Spectrophotometric: Standard Methods, 18th, 19th, 20th, ~~or 21st~~, or 22nd ed., Method 4500-NO₂⁻ B.
- E) Capillary ion electrophoresis: 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 methods for nitrite in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616). USEPA added Systea 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). USEPA added Standard Methods, 22nd ed., Methods 4500-NO₃⁻ E and F, 4500-NO₂⁻ B, and 4110 B as approved alternative methods for nitrite in appendix A to subpart C of 40 CFR 141 on May 31, 2013 (at 78 Fed. Reg. 32558).

- 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~~, or 22nd ed., Method 4500-P F.
 - B) Single reagent colorimetric, ascorbic acid.

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- i) ASTM Method D515-88 A; or
 - ii) Standard Methods, 18th, 19th, 20th, ~~or 21st~~, or 22nd ed., Method 4500-P E.
- 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~~, or 22nd ed., Method 4110 B.
- G) Capillary ion electrophoresis: ASTM Method D6508-00(2005).

BOARD NOTE: USEPA added Standard Methods, 21st ed., Methods 4110 B and, 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). Because Standard Methods, 21st ed., Methods 4500-P E and F are the same versions as Standard Methods Online 4500-P E-99 and F-99, the Board has not listed the Standard Methods Online versions separately. USEPA added Standard Methods, 22nd ed., Methods 4500-P E and F and 4110 B as approved alternative methods for orthophosphate in appendix A to subpart C of 40 CFR 141 on May 31, 2013 (at 78 Fed. Reg. 32558).

- 21) pH: electrometric.

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- A) USEPA Inorganic Methods, Method 150.1 or Method 150.2;
- B) ASTM Method D1293-95, ~~or~~ D1293-99, or D1293-12; or
- C) Standard Methods, 18th, 19th, 20th, ~~or~~ 21st, or 22nd 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). USEPA added Standard Methods, 22nd ed., Method 4500-H⁺ B and ASTM Method D1293-12 as approved alternative methods for pH in appendix A to subpart C of 40 CFR 141 on May 31, 2013 (at 78 Fed. Reg. 32558).

22) Selenium.

- A) Atomic absorption, hydride.
 - i) ASTM Method D3859-98 A, D3859-03 A, or D3859-08 A; or
 - ii) Standard Methods, 18th, 19th, ~~or~~ 21st, or 22nd ed., Method 3114 B, ~~or~~
 - iii) ~~Standard Methods Online, Method 3114 B-09.~~
- 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 D3859-98 B, D3859-03 B, or D3859-08 B;
 - ii) Standard Methods, 18th, 19th, ~~or~~ 21st, or 22nd ed., Method 3113 B; or

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- iii) Standard Methods Online, Method 3113 B-04.
- E) Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES): USEPA NERL 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). USEPA added Standard Methods Online, Method 3113 B-04 and Method 3114 B-09 as approved alternative methods for selenium in appendix A to subpart C of 40 CFR 141 on June 24, 2011 (at 76 Fed. Reg. 37014). USEPA added Standard Methods, 22nd ed., Methods 3113 B and 3114 B as approved alternative methods for selenium in appendix A to subpart C of 40 CFR 141 on May 31, 2013 (at 78 Fed. Reg. 32558). Because Standard Methods, 22nd ed., Method 3114 B is the same version as Standard Methods Online 3114 B-09, the Board has not listed the Standard Methods Online version separately.

- 23) Silica.
 - 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.
 - D) Molybdosilicate: Standard Methods, 18th or 19th ed., Method 4500-Si D or Standard Methods, 20th ~~or~~ 21st or 22nd ed., Method 4500-SiO₂ C.
 - E) Heteropoly blue: Standard Methods, 18th or 19th ed., Method 4500-Si E or Standard Methods, 20th ~~or~~ 21st or 22nd ed., Method 4500-SiO₂ D.

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- F) Automated method for molybdate-reactive silica: Standard Methods, 18th or 19th ed., Method 4500-Si F or Standard Methods, 20th, ~~or~~ 21st, or 22nd ed., Method 4500-SiO₂ E.
- 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.
- H) Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES): USEPA NERL 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). USEPA added ASTM Method D859-10 as an approved alternative method for silica in appendix A to subpart C of 40 CFR 141 on June 28, 2012 (at 77 Fed. Reg. 38523). USEPA added Standard Methods, 22nd ed., Methods 4500-SiO₂ C, D, and E and 3120 B as approved alternative methods for silica in appendix A to subpart C of 40 CFR 141 on May 31, 2013 (at 78 Fed. Reg. 32558).

- 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, or 22nd ed., Method 3111 B.
- C) Ion chromatography: ASTM Method D6919-03 or D6919-09.
- D) Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES): USEPA NERL Method 200.5.

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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). USEPA added ASTM Method D6919-09 as an approved alternative method for sodium in appendix A to subpart C of 40 CFR 141 on June 24, 2011 (at 76 Fed. Reg. 37014). USEPA added Standard Methods, 22nd ed., Method 3111 B as an approved alternative method for sodium in appendix A to subpart C of 40 CFR 141 on May 31, 2013 (at 78 Fed. Reg. 32558).

- 25) Temperature; thermometric: Standard Methods, 18th, 19th, 20th, ~~or~~ 21st, or 22nd ed., Method 2550.

BOARD NOTE: USEPA added Standard Methods, 21st ed., Method 2550 as an approved alternative method for temperature in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616). USEPA added Standard Methods, 22nd ed., Method 2550 as an approved alternative method for temperature in appendix A to subpart C of 40 CFR 141 on May 31, 2013 (at 78 Fed. Reg. 32558).

- 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, 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

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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).
 - 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.

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- 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.
- 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.

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- 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.
 - 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.

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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 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.
 - 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, asbestos, barium, beryllium, cadmium, chromium, cyanide, fluoride, mercury, nickel, nitrate, nitrite, selenium, and thallium if the laboratory does as follows:

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- 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.
 - 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) and appendix A to 40 CFR 141 ~~(2013)~~(2011).

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(Source: Amended at 38 Ill. Reg. _____, effective _____)

Section 611.612 Monitoring Requirements for Old Inorganic MCLs

- a) Analyses for the purpose of determining compliance with the old inorganic MCLs of Section 611.300 are required as follows:
- 1) Analyses for all CWSs utilizing surface water sources must be repeated at yearly intervals.
 - 2) Analyses for all CWSs utilizing only groundwater sources must be repeated at three-year intervals.
 - 3) This subsection (a)(3) corresponds with 40 CFR 141.23(1)(3), which requires monitoring for the repealed old MCL for nitrate at a frequency specified by the state. The Board has followed the USEPA lead and repealed that old MCL. This statement maintains structural consistency with USEPA rules.
 - 4) This subsection (a)(4) corresponds with 40 CFR 141.23(1)(4), which authorizes the state to determine compliance and initiate enforcement action. This statement maintains structural consistency with USEPA rules.
- b) If the result of an analysis made under subsection (a) 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 ~~issued~~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 ~~issued~~granted pursuant to Section 611.110.

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- d) This subsection (d) corresponds with 40 CFR 141.23(o), which pertains to monitoring for the repealed old MCL for nitrate. This statement maintains structural consistency with USEPA rules.
- e) This subsection (e) corresponds with 40 CFR 141.23(p), which pertains to the use of existing data up until a date long since expired. This statement maintains structural consistency with USEPA rules.
- f) Analyses conducted to determine compliance with the old MCLs of Section 611.300 must be made in accordance with the following methods, incorporated by reference in Section 611.102, or alternative methods approved by the Agency pursuant to Section 611.480.
- 1) Fluoride: The methods specified in Section 611.611(c) must apply for the purposes of this Section.
 - 2) Iron.
 - A) Standard Methods.
 - i) Method 3111 B, 18th, 19th, ~~or 21st~~, or 22nd ed.;
 - ii) Method 3113 B, 18th, 19th, ~~or 21st~~, or 22nd ed.;
 - iii) Method 3120 B, 18th, 19th, 20th, ~~or 21st~~, or 22nd ed.
 - B) Standard Methods Online, Method 3113 B-04.
 - C) USEPA Environmental Metals Methods.
 - i) Method 200.7 (rev. 4.4); or
 - ii) Method 200.9 (rev. 2.2).
 - D) Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES): USEPA NERL Method 200.5.

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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 on June 3, 2008 (at 73 Fed. Reg. 31616). USEPA added Standard Methods Online, Method 3113 B-04 as an approved alternative method for iron in appendix A to subpart C of 40 CFR 141 on June 24, 2011 (at 76 Fed. Reg. 37014).~~

BOARD NOTE: USEPA added USEPA NERL Method 200.5 as an approved alternative method in appendix A to subpart C of 40 CFR 141 on June 3, 2008 (at 73 Fed. Reg. 31616). 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). USEPA added Standard Methods Online, Method 3113 B-04 as an approved alternative method for iron in appendix A to subpart C of 40 CFR 141 on June 24, 2011 (at 76 Fed. Reg. 37014). USEPA added Standard Methods, 22nd ed., Methods 3111 D, 3113 B, and 3120 B as approved alternative methods for iron in appendix A to subpart C of 40 CFR 141 on June 21, 2013 (at 78 Fed. Reg. 37463).

- 3) Manganese.
 - A) Standard Methods.
 - i) Method 3111 B, 18th, 19th, ~~or 21st~~, or 22nd ed.;
 - ii) Method 3113 B, 18th, 19th, ~~or 21st~~, or 22nd ed.; or
 - iii) Method 3120 B, 18th, 19th, 20th, ~~or 21st~~, or 22nd ed.
 - B) Standard Methods Online, Method 3113 B-04.
 - C) 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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- D) Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES): USEPA NERL 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). USEPA added Standard Methods Online, Method 3113 B-04 as an approved alternative method for manganese in appendix A to subpart C of 40 CFR 141 on June 24, 2011 (at 76 Fed. Reg. 37014). USEPA added Standard Methods, 22nd ed., Methods 3111 D, 3113 B, and 3120 B as approved alternative methods for manganese in appendix A to subpart C of 40 CFR 141 on June 21, 2013 (at 78 Fed. Reg. 37463).

- 4) Zinc.

- A) Standard Methods.

- i) Method 3111 B, 18th, 19th, ~~or 21st~~, or 22nd ed.; or
ii) Method 3120 B, 18th, 19th, 20th, ~~or 21st~~, or 22nd ed.

- B) USEPA Environmental Metals Methods.

- i) Method 200.7 (rev. 4.4); or
ii) Method 200.8 (rev. 5.3).

- C) Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES): USEPA NERL 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). USEPA added Standard Methods, 22nd ed., Methods 3111 B and 3120 B as approved alternative methods for zinc in appendix A to subpart C of 40 CFR 141 on June 21, 2013 (at 78 Fed. Reg. 37463).

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BOARD NOTE: The provisions of subsections (a) through (e) of this Section derive from 40 CFR 141.23(l) through (p) ~~(2013)(2014)~~. 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) and appendix A to subpart C of 40 CFR 141 ~~(2013)(2014)~~, for secondary MCLs.

(Source: Amended at 38 Ill. Reg. _____, effective _____)

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. 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.

a) Volatile Organic Chemical Contaminants (VOCs).

Contaminant	Analytical Methods
Benzene	USEPA Organic Methods, Methods 502.2 (rev. 2.1) and 524.2 (rev. 4.1); USEPA OGWDW Methods, Method 524.3 (rev. 1.0)
Carbon tetrachloride	USEPA Organic Methods, Methods 502.2 (rev. 2.1) and 524.2 (rev. 4.1); USEPA OGWDW Methods, Methods Method 524.3 (rev. 1.0), 524.4 , and 551.1 (rev. 1.0)
Chlorobenzene	USEPA Organic Methods, Methods 502.2 (rev. 2.1) and 524.2 (rev. 4.1); USEPA OGWDW Methods, Methods Method 524.3 (rev. 1.0) <u>and</u> 524.4
1,2-Dichlorobenzene	USEPA Organic Methods, Methods

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	502.2 (rev. 2.1) and 524.2 (rev. 4.1); USEPA OGWDW Methods, <u>Methods</u> Method 524.3 (rev. 1.0) <u>and</u> <u>524.4</u>
1,4-Dichlorobenzene	USEPA Organic Methods, Methods 502.2 (rev. 2.1) and 524.2 (rev. 4.1); USEPA OGWDW Methods, <u>Methods</u> Method 524.3 (rev. 1.0) <u>and</u> <u>524.4</u>
1,2-Dichloroethane	USEPA Organic Methods, Methods 502.2 (rev. 2.1) and 524.2 (rev. 4.1); USEPA OGWDW Methods, <u>Methods</u> Method 524.3 (rev. 1.0) <u>and</u> <u>524.4</u>
<u>1,1-Dichloroethylene</u>	<u>USEPA Organic Methods, Methods</u> <u>502.2 (rev. 2.1) and 524.2 (rev. 4.1);</u> <u>USEPA OGWDW Methods,</u> <u>Methods 524.3 (rev. 1.0) and 524.4</u>
cis-Dichloroethylene	USEPA Organic Methods, Methods 502.2 (rev. 2.1) and 524.2 (rev. 4.1); USEPA OGWDW Methods, <u>Methods</u> Method 524.3 (rev. 1.0) <u>and</u> <u>524.4</u>
trans-Dichloroethylene	USEPA Organic Methods, Methods 502.2 (rev. 2.1) and 524.2 (rev. 4.1); USEPA OGWDW Methods, <u>Methods</u> Method 524.3 (rev. 1.0) <u>and</u> <u>524.4</u>
Dichloromethane	USEPA Organic Methods, Methods 502.2 (rev. 2.1) and 524.2 (rev. 4.1); USEPA OGWDW Methods, <u>Methods</u> Method 524.3 (rev. 1.0) <u>and</u> <u>524.4</u>
1,2-Dichloropropane	USEPA Organic Methods, Methods 502.2 (rev. 2.1) and 524.2 (rev. 4.1); USEPA OGWDW Methods, <u>Methods</u> Method 524.3 (rev. 1.0) <u>and</u> <u>524.4</u>
Ethylbenzene	USEPA Organic Methods, Methods

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	502.2 (rev. 2.1) and 524.2 (rev. 4.1); USEPA OGWDW Methods, <u>Methods</u> Method 524.3 (rev. 1.0) <u>and</u> <u>524.4</u>
Styrene	USEPA Organic Methods, Methods 502.2 (rev. 2.1) and 524.2 (rev. 4.1); USEPA OGWDW Methods, <u>Methods</u> Method 524.3 (rev. 1.0) <u>and</u> <u>524.4</u>
Tetrachloroethylene	USEPA Organic Methods, Methods 502.2 (rev. 2.1) and 524.2 (rev. 4.1); USEPA OGWDW Methods, <u>Methods</u> Method 524.3 (rev. 1.0), <u>524.4</u> , and 551.1 (rev. 1.0)
<u>Toluene</u>	<u>USEPA Organic Methods, Methods</u> <u>502.2 (rev. 2.1) and 524.2 (rev. 4.1);</u> <u>USEPA OGWDW Methods,</u> <u>Methods 524.3 (rev. 1.0) and 524.4</u>
1,1,1-Trichloroethane	USEPA Organic Methods, Methods 502.2 (rev. 2.1) and 524.2 (rev. 4.1); USEPA OGWDW Methods, <u>Methods</u> Method 524.3 (rev. 1.0), <u>524.4</u> , and 551.1 (rev. 1.0)
Trichloroethylene	USEPA Organic Methods, Methods 502.2 (rev. 2.1) and 524.2 (rev. 4.1); USEPA OGWDW Methods, <u>Methods</u> Method 524.3 (rev. 1.0), <u>524.4</u> , and 551.1 (rev. 1.0)
Toluene	USEPA Organic Methods, Methods 502.2 (rev. 2.1) and 524.2 (rev. 4.1); USEPA OGWDW Methods, Method 524.3 (rev. 1.0)
1,2,4-Trichlorobenzene	USEPA Organic Methods, Methods 502.2 (rev. 2.1) and 524.2 (rev. 4.1); USEPA OGWDW Methods, <u>Methods</u> Method 524.3 (rev. 1.0) <u>and</u> <u>524.4</u>
1,1-Dichloroethylene	USEPA Organic Methods, Methods 502.2 (rev. 2.1) and 524.2 (rev. 4.1);

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1,1,2-Trichloroethane	USEPA OGWDW Methods, Method 524.3 (rev. 1.0) USEPA Organic Methods, Methods 502.2 (rev. 2.1) and 524.2 (rev. 4.1); USEPA OGWDW Methods, Methods <u>Method 524.3 (rev. 1.0) and 524.4</u>
Vinyl chloride	USEPA Organic Methods, Methods 502.2 (rev. 2.1) and 524.2 (rev. 4.1); USEPA OGWDW Methods, Methods <u>Method 524.3 (rev. 1.0) and 524.4</u>
Xylenes (total)	USEPA Organic Methods, Methods 502.2 (rev. 2.1) and 524.2 (rev. 4.1); USEPA OGWDW Methods, Methods <u>Method 524.3 (rev. 1.0) and 524.4</u>

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). USEPA added USEPA OGWDW Method 524.4 as an approved alternative method for all of the VOCs in appendix A to subpart C of 40 CFR 141 on May 31, 2013 (at 78 Fed. Reg. 32558).

b) 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	USEPA Organic Methods, Methods 515.2 (rev. 1.1), 555 (rev. 1.0), and 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 (2003); Standard Methods, 21 st <u>or 22nd</u> ed., Method 6640 B

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2,4,5-TP (Silvex)	USEPA Organic Methods, Methods 515.2 (rev. 1.1), 555 (rev. 1.0), and 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 (2003); Standard Methods, 21 st or 22 nd ed., Method 6640 B
Alachlor	USEPA Organic Methods, Methods 505 (rev. 2.1) ¹ , 507 (rev. 2.1), 508.1 (rev. 2.0), 525.2 (rev. 2.0), 525.3 (ver. 1.0), and 551.1 (rev. 1.0)
Atrazine	USEPA Organic Methods, Methods 505 (rev. 2.1) ¹ , 507 (rev. 2.1), 508.1 (rev. 2.1), 523 (rev. 1.0), 525.2 (rev. 2.0), 523.3 (ver. 1.0), 536 (ver. 1.0), and 551.1 (rev. 1.0); Syngenta AG-625 ²
Benzo(a)pyrene	USEPA Organic Methods, Methods 525.2 (rev. 2.0), 523.3 (ver. 1.0), 550, and 550.1
Carbofuran	USEPA Organic Methods, Methods 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; Standard Methods, 21 st or 22 nd ed., Method 6610 B; Standard Methods Online, Method 6610-B-04
Chlordane	USEPA Organic Methods, Methods 505 (rev. 2.1), 508 (rev. 3.1), 508.1 (rev. 2.1), 525.2 (rev. 2.0), and 525.3 (ver. 1.0)

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Dalapon	USEPA Organic Methods, Methods 515.1 (rev. 4.0), 552.1 (rev. 1.0), and 552.2 (rev. 1.0); USEPA Organic and Inorganic Methods, Method 515.3 (rev. 1.0); USEPA OGWDW Methods, Methods 515.4 (rev. 1.0), 552.3 (rev. 1.0), and 557; Standard Methods, 21 st <u>or 22nd</u> ed., Method 6640 B
Di(2-ethylhexyl)adipate	USEPA Organic Methods, Methods 506 (rev. 1.1), 525.2 (rev. 2.0), and 525.3 (ver. 1.0)
Di(2-ethylhexyl)phthalate	USEPA Organic Methods, Methods 506 (rev. 1.1), 525.2 (rev. 2.0), and 525.3 (ver. 1.0)
Dibromochloropropane (DBCP)	USEPA Organic Methods, Methods 504.1 (rev. 1.1), USEPA OGWDW Methods, Methods 524.3 (rev. 1.0) and 551.1 (rev. 1.0)
Dinoseb	USEPA Organic Methods, Methods 515.1 (rev. 4.0) and 515.2 (rev. 1.1); USEPA Organic and Inorganic Methods, Method 515.3 (rev. 1.0); USEPA OGWDW Methods, Methods 515.4 (rev. 1.0) and 555 (rev. 1.0); Standard Methods, 21 st <u>or 22nd</u> ed., Method 6640 B
Diquat	USEPA NERL Method 549.2 (rev. 1.0)
Endothall	USEPA Organic Methods, Method 548.1 (rev. 1.0)
Endrin	USEPA Organic Methods, Methods 505 (rev. 2.1), 508 (rev. 3.1), 508.1 (rev. 2.0), 525.2 (rev. 2.0), 525.3 (ver. 1.0), and 551.1 (rev. 1.0)

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Ethylene dibromide (EDB)	USEPA Organic Methods, Method 504.1 (rev. 1.1); USEPA OGWDW Methods, Methods 524.3 (rev. 1.0) and 551.1 (rev.1.0)
Glyphosate	USEPA Organic Methods, Method 547; Standard Methods, 18 th ed., 19 th ed., 20 th , or 21st , <u>or 22nd</u> ed., Method 6651 B
Heptachlor	USEPA Organic Methods, Methods 505 (rev. 2.1), 508 (rev. 3.1), 508.1 (rev. 2.0), 525.2 (rev. 2.0), 525.3 (ver. 1.0), and 551.1 (rev. 1.0)
Heptachlor Epoxide	USEPA Organic Methods, Methods 505 (rev. 2.1), 508 (rev. 3.1), 508.1 (rev. 2.0), 525.2 (rev. 2.0), 525.3 (ver. 1.0), and 551.1 (rev.1.0)
Hexachlorobenzene	USEPA Organic Methods, Methods 505 (rev. 2.1), 508 (rev. 3.1), 508.1 (rev. 2.0), 525.2 (rev. 2.0), 525.3 (ver. 1.0), and 551.1 (rev. 1.0)
Hexachlorocyclopentadiene	USEPA Organic Methods, Methods 505 (rev. 2.1), 508 (rev. 3.1), 508.1 (rev. 2.0), 525.2 (rev. 2.0), 525.3 (ver. 1.0), and 551.1 (rev. 1.0)
Lindane	USEPA Organic Methods, Methods 505 (rev. 2.1), 508 (rev. 3.1), 508.1 (rev. 2.0), 525.2 (rev. 2.0), 525.3 (ver. 1.0), and 551.1 (rev. 1.0)
Methoxychlor	USEPA Organic Methods, Methods 505 (rev. 2.1), 508 (rev. 3.1), 508.1 (rev. 2.0), 525.2 (rev. 2.0), 525.3 (ver. 1.0), and 551.1 (rev. 1.0)

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Oxamyl	USEPA Organic Methods, Method 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; Standard Methods, 21 st <u>or 22nd</u> ed., Method 6610 B; Standard Methods Online, Method 6610 B-04
PCBs (measured for compliance purposes as decachlorobiphenyl)	USEPA Organic Methods, Method 508A (rev. 1.0)
PCBs (qualitatively identified as Aroclors)	USEPA Organic Methods, Methods 505 (rev. 2.1), 508 (rev. 3.1), 508.1 (rev. 2.0), 525.2 (rev. 2.0), and 525.3 (ver. 1.0),
Pentachlorophenol	USEPA Organic Methods, Methods 515.1 (rev. 4.0), 515.2 (rev. 1.1), 525.2 (rev. 2.0), 525.3 (ver. 1.0) and 555 (rev. 1.0); 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 (2003); Standard Methods, 21 st <u>or 22nd</u> ed., Method 6640 B
Picloram	USEPA Organic Methods, Methods 515.1 (rev. 4.0), 515.2, (rev. 1.1) and 555 (rev. 1.0); 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 (2003); Standard Methods, 21 st <u>or 22nd</u> ed., Method 6640 B

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Simazine	USEPA Organic Methods, Methods 505 (rev. 2.1) ¹ , 507 (rev. 2.1), 508.1 (rev. 2.0), 523 (ver. 1.0) 525.2 (rev. 2.0), 525.3 (ver. 1.0), 536 (ver. 1.0), and 551.1 (rev. 1.0)
Toxaphene	USEPA Organic Methods, Methods 505 (rev. 2.1), 508 (rev. 2.1), 508.1 (rev. 2.0), 525.2 (rev. 2.0), and 525.3 (ver. 1.0)

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 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). USEPA added Standard Methods, 21st ed., Method 6640 B as an approved alternative method for 2,4-D, 2,4,5-TP (Silvex), dinoseb, pentachlorophenol, and picloram in appendix A to subpart C of 40 CFR 141 on June 24, 2011 (at 76 Fed. Reg. 37014). USEPA added Standard Methods, Online, Method 6640 B-01 as an approved alternative method for 2,4-D, 2,4,5-TP (Silvex), dalapon, dinoseb, pentachlorophenol, and picloram and in appendix A to subpart C of 40 CFR 141 on June 24, 2011 (at 76 Fed. Reg. 37014). Since the version of Method 6640-B 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. USEPA added Standard Methods, 21st ed., Method 6651 B as an approved alternative method for glyphosate in appendix A to subpart C of 40 CFR 141 on June 24, 2011 (at 76 Fed. Reg. 37014). USEPA added Standard Methods Online, Method 6651 B-00 as an approved alternative method for glyphosate in appendix A to subpart C of 40 CFR 141 on June 24, 2011 (at 76 Fed. Reg. 37014). Since the version of Method 6651 B 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. USEPA approved USEPA OGWDW Methods, Method 523 (ver. 1.0) and Method 536 (ver. 1.0) as approved alternative methods for atrazine and simazine and USEPA NURL Methods, Method 525.3 as an approved alternative method for alachlor,

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atrazine, benzo(a)pyrene, chlordane, di(2-ethylhexyl)adipate, di(2-ethylhexyl)phthalate, endrin, heptachlor, heptachlor epoxide, hexachlorobenzene, hexachlorocyclopentadiene, lindane, methoxychlor, PCBs (as arachlors), pentachlorophenyl, simazine, and toxaphene in appendix A to subpart C of 40 CFR 141 on June 8, 2012 (at 77 Fed. Reg. 38523). USEPA added Standard Methods, 22nd ed., Method 6610 B and Standard Methods Online, Method 6610 B-04 as an approved alternative method for carbofuran and oxamyl; Standard Methods, 22nd ed., Method 6640 B and Standard Methods Online, Method 6640 B-01 as an approved method for 2,4-D, 2,4,5-TP (Silvex), dalapon, dinoseb, pentachlorophenol, and picloram; and Standard Methods, 22nd ed., Method 6651 B for glyphosate in appendix A to subpart C of 40 CFR 141 on May 31, 2013 (at 78 Fed. Reg. 32558). Because Standard Methods, 22nd ed., Methods 6610 B and 6640 B-01 are the same versions as Standard Methods Online 6610 B-04 and 6640 B-01, the Board has not listed the Standard Methods Online versions separately.

c) Total Trihalomethanes (TTHMs).

Contaminant	Analytical Methods
Total Trihalomethanes (TTHMs), Trihalomethanes (THMs), and Maximum Total Trihalomethane Potential	USEPA Organic Methods, Methods 502.2 (rev. 2.1) and 524.2 (rev. 4.1); USEPA OGWDW Methods, <u>Method 524.3 (rev. 1.0), 524.4, and 551.1 (rev. 1.0)</u>

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). USEPA added USEPA OGWDW Method 524.4 as an approved alternative method for total trihalomethanes in appendix A to subpart C of 40 CFR 141 on May 31, 2013 (at 78 Fed. Reg. 32558).

d) State-Only MCLs (for which a method is not listed in subsections (a) through (c) of this Section).

Contaminant	Analytical Methods
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Aldrin	USEPA Organic Methods, Methods 505 (rev. 2.1), 508 (rev. 3.1), 508.1 (rev. 2.0), and 525.2 (rev. 2.0)
DDT	USEPA Organic Methods, Methods 505 (rev. 2.1) and 508 (rev. 3.1)
Dieldrin	USEPA Organic Methods, Methods 505 (rev. 2.1), 508 (rev. 3.1), 508.1 (rev. 2.0), and 525.2 (rev. 2.0)

- e) The following footnotes are appended to method entries in subsections (a) and (b) of this Section:

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.

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 0.0015 mg/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) and appendix A to subpart C of 40 CFR 141 ([20132014](#)).

(Source: Amended at 38 Ill. Reg. _____, effective _____)

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

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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~~, or 22nd ed.;
 - B) USEPA Interim Radiochemical Methods: pages 1-3;
 - C) USEPA Radioactivity Methods, Method 900.0;
 - D) USEPA Radiochemical Analyses: pages 1-5;
 - E) USEPA Radiochemistry 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). USEPA added Standard Methods, 22nd 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 21, 2013 (at 78 Fed. Reg. 37463).

- 2) Gross Alpha.
 - A) Standard Methods, 18th, 19th, 20th, ~~or 21st~~, or 22nd ed., Method 7110 C; or
 - B) USEPA Radiochemistry Procedures, 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). See the comment appended to 611.611(a)(2)(D)(ii) re Standard Methods Online, Method 3113 B-04 for antimony. USEPA added Standard Methods, 22nd ed., Method 7110 C as an approved alternative method for gross alpha in

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[appendix A to subpart C of 40 CFR 141 on June 21, 2013 \(at 78 Fed. Reg. 37463\).](#)

- 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~~, or 22nd ed.;
or
 - iv) Method 7500-Ra C, 17th, 18th, 19th, 20th, ~~or 21st~~, or 22nd ed.;
 - D) EML Procedures Manual (27th or 28th ed.), Method Ra-04;
 - E) USEPA Interim Radiochemical Methods: pages 13-15 or 16-23;
 - F) USEPA Radioactivity Methods, Methods 903.0, 903.1;
 - G) USEPA Radiochemical Analyses, pages 19-32;
 - H) USEPA Radiochemistry Procedures, Method Ra-03 or Ra-04; or
 - I) USGS Methods.
 - i) Method R-1140-76; or
 - ii) Method R-1141-76.
 - J) Georgia Radium Method.

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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). USEPA added Standard Methods, 22nd 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 21, 2013 (at 78 Fed. Reg. 37463).

- 4) Radium-228.
- A) Standard Methods, 17th, 18th, 19th, 20th, ~~or 21st~~, or 22nd ed., Method 7500-Ra D;
 - B) New York Radium Method;
 - C) USEPA Interim Radiochemical Methods, pages 24-28;
 - D) USEPA Radioactivity Methods, Method 904.0;
 - E) USEPA Radiochemical Analyses, pages 19-32;
 - F) USEPA Radiochemistry Procedures, 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). USEPA added Standard Methods, 22nd 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 21, 2013 (at 78 Fed. Reg. 37463).

- 5) Uranium.

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- A) Standard Methods, 17th, 18th, 19th, 20th, ~~or 21st~~, or 22nd ed., Method 7500-U B or 7500-U C;
- B) Standard Methods, 20th or 21st ed., Method 3125;
- C) ASTM Methods.
- i) Method D2907-97;
- ii) Method D3972-97, ~~or D3972-02~~, or D3972-09;
- iii) Method D5174-97, D5174-02, or D5174-07, ~~or D3972-09~~;
- iv) Method D5673-03, Method D5673-05, or Method D5673-10; or
- v) Method D6239-09;
- 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 33-48;
- G) USEPA Radiochemistry Procedures, Method 00-07;
- H) EML Procedures 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.

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BOARD NOTE: USEPA added Standard Methods, 21st ed., [Method 7500-U B and Method 7500-U C](#) and ASTM Method 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). USEPA added ASTM Method D3972-09 as an approved alternative method for uranium in appendix A to subpart C of 40 CFR 141 on June 24, 2011 (at 76 Fed. Reg. 37014). USEPA added Standard Methods, 21st ed., Method 3125 and ASTM Methods D5673-10 and D6329-09 as approved alternative methods for uranium in appendix A to subpart C of 40 CFR 141 on June 3, 2012 (at 77 Fed. Reg. 38523). [USEPA added Standard Methods, 22nd ed., Methods 7500-U B and C as approved alternative methods for uranium in appendix A to subpart C of 40 CFR 141 on June 21, 2013 \(at 78 Fed. Reg. 37463\).](#)

- 6) Radioactive Cesium.
 - A) ASTM Methods.
 - i) Method D2459-72; or
 - ii) Method D3649-91, D3649-98a, or D3649-06;
 - B) Standard Methods.
 - i) Method 7120, 19th, 20th, ~~or 21st~~, [or 22nd](#) ed.; or
 - ii) Method 7500-Cs B, 17th, 18th, 19th, 20th, ~~or 21st~~, [or 22nd](#) ed.;
 - C) EML Procedures Manual (27th or 28th ed.), Method 4.5.2.3;
 - D) USEPA Interim Radiochemical Methods, pages 4-5;
 - E) USEPA Radioactivity Methods, Methods 901.0, 901.1;
 - F) USEPA Radiochemical Analyses, pages 92-95; or
 - G) USGS Methods.
 - i) Method R-1110-76; or

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- 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). [USEPA added Standard Methods, 22nd 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 21, 2013 \(at 78 Fed. Reg. 37463\).](#)

7) Radioactive Iodine.

A) ASTM Methods.

- i) D3649-91, D3649-98a, or D3649-06; or
- ii) D4785-93, D4785-98, or D4785-08;

B) Standard Methods.

- i) Method 7120, 19th, 20th, ~~or 21st~~, or 22nd ed.;
- ii) Method 7500-I B, 17th, 18th, 19th, 20th, ~~or 21st~~, or 22nd ed.;
- iii) Method 7500-I C, 17th, 18th, 19th, 20th, ~~or 21st~~, or 22nd ed.;
or
- iv) Method 7500-I D, 17th, 18th, 19th, 20th, ~~or 21st~~, or 22nd ed.;

C) EML Procedures 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 92-95; or

F) USEPA Radioactivity Methods, Methods 901.1 or 902.0.

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,

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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). USEPA added Standard Methods, 22nd 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 21, 2013 (at 78 Fed. Reg. 37463).

- 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, or 22nd ed.;
 - B) EML Procedures Manual (27th or 28th ed.), Method Sr-01 or Sr-02.
 - C) USEPA Interim Radiochemical Methods, pages 29-33;
 - D) USEPA Radioactivity Methods, Method 905.0;
 - E) USEPA Radiochemical Analyses, pages 65-73;
 - F) USEPA Radiochemistry Procedures, 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). USEPA added Standard Methods, 22nd ed., Method 7500-Sr B as an approved alternative method for radioactive strontium 89 and 90 in appendix A to subpart C of 40 CFR 141 on June 21, 2013 (at 78 Fed. Reg. 37463).

- 9) Tritium.
- A) ASTM Methods: Method D4107-91, D4107-98, or D4107-08;
 - B) Standard Methods.

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- i) Method 306, 13th ed.; or
 - ii) Method 7500-³H B, 17th, 18th, 19th, 20th, ~~or 21st~~, or 22nd ed.;
- C) USEPA Interim Radiochemical Methods, pages 34-37;
 - D) USEPA Radioactivity Methods, Method 906.0;
 - E) USEPA Radiochemical Analyses, pages 87-91;
 - F) USEPA Radiochemistry Procedures, 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). USEPA added Standard Methods, 22nd ed., Method 7500-³H B as an approved alternative method for tritium in appendix A to subpart C of 40 CFR 141 on June 21, 2013 (at 78 Fed. Reg. 37463).

- 10) Gamma Emitters.
 - A) ASTM Methods.
 - i) Method D3649-91, D3649-98a, or D3649-06; or
 - ii) Method D4785-93, D4785-00a, or D4785-08;
 - B) Standard Methods.
 - i) Method 7120, 19th, 20th, ~~or 21st~~, or 22nd ed.;
 - ii) Method 7500-Cs B, 17th, 18th, 19th, 20th, ~~or 21st~~, or 22nd ed.;
 - or
 - iii) Method 7500-I B, 17th, 18th, 19th, 20th, ~~or 21st~~, or 22nd ed.;
 - C) EML Procedures Manual (27th or 28th ed.), Method Ga-01-R;

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- D) USEPA Radioactivity Methods, Methods 901.0, 901.1, or 902.0;
- E) USEPA Radiochemical Analyses, pages 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).

[USEPA added Standard Methods, 22nd 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 21, 2013 \(at 78 Fed. Reg. 37463\).](#)

- 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 Manual (27th or 28th ed.), available from USDOE, EML.
- 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:

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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 ~~(2013)~~(2012).

- 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 ~~(2013)~~(2012).

- 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 and appendix A to subpart C of 40 CFR 141 ~~(2013)~~(2012).

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(Source: Amended at 38 Ill. Reg. _____, effective _____)

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 in either subsections (a)(1)(A) and (a)(1)(B) or (a)(1)(A) and (a)(1)(C) of this Section 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) Until March 31, 2016, the ~~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.
 - C) Beginning April 1, 2016, the system is notified that a sample collected under Sections 611.1054 through 611.1057 is total coliform-positive and the sample is not invalidated under Section 611.1053(c).
 - 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 until March 31, 2016, or collected pursuant to Sections 611.1054 through 611.1057 beginning April 1, 2016, 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

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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 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) Until March 31, 2016, 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.
- D) Beginning April 1, 2016, 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 Subpart AA of this Part and to satisfy the monitoring requirements of subsection (a)(2) of this Section for that groundwater source only if the Agency, by a SEP issued pursuant to Section 611.110, approves the use of E. coli as a fecal indicator for source water monitoring pursuant to this subsection (a) and approves the use of a single sample for meeting both the triggered source water monitoring requirements in this subsection (a) and the repeat monitoring requirements in Section 611.1058. If the repeat sample collected from the groundwater source is E. coli-positive, the system must comply with subsection (a)(3) of this Section.

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- 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 until March 31, 2016, or pursuant to Sections 611.1054 through 611.1057 beginning April 1, 2016, 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 until March 31, 2016, or collected pursuant to Sections 611.1054 through 611.1057 beginning April 1, 2016, is total coliform-positive must, 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.

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- 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 until March 31, 2016, or collected pursuant to Sections 611.1054 through 611.1057 beginning April 1, 2016, is caused by a distribution system deficiency; or
 - B) The total coliform-positive sample collected pursuant to Section 611.521 until March 31, 2016, or collected pursuant to Sections 611.1054 through 611.1057 beginning April 1, 2016, 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;
 - 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;

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- 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, each incorporated by reference in Section 611.102, 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:
 - i) Autoanalysis Colilert System, Standard Methods, 20th ~~or~~ 21st or 22nd ed., Method 9223 B.
 - ii) Colisure Test, Standard Methods, 20th ~~or~~ 21st or 22nd ed., Method 9223 B.
 - iii) Membrane Filter Method with MI Agar, USEPA Method 1604.

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- iv) m-ColiBlue24 Test.
- v) E*Colite Test.
- vi) EC-MUG, Standard Methods, 20th or 22nd ed., Method 9221 F.
- vii) NA-MUG, Standard Methods, 20th ed., Method 9222 G.
- viii) Colilert-18, Standard Methods, 20th ~~, or 21st~~ , or 22nd ed., Method 9223 B.
- ix) Readycult® 2007.
- x) Modified Colitag™ Method.
- xi) Chromomcult® 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) after use of Standard Methods, 18th, 19th, 20th, or 21st ed., 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). USEPA added Standard Methods, 22nd ed., Methods 9221 F and 9223 B as approved alternative methods for E. coli in appendix A to subpart C of 40 CFR 141 on May 31, 2013 (at 78 Fed. Reg. 32558).

B) Enterococci:

- i) Multiple-Tube Technique, Standard Methods, 20th ed., Method 9230 B or Standard Methods Online, Method 9230 B-04.

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- 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).

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 or Charm Fast Phage.
- 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:

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- 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 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

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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 and appendix A to 40 CFR 141 ~~(2013)~~(2010).

(Source: Amended at 38 Ill. Reg. _____, effective _____)

Section 611.805 Reporting and Recordkeeping for GWS Suppliers

- a) **Reporting.** In addition to the requirements of Section 611.840, a GWS supplier regulated pursuant to this Subpart S must provide the following information to the Agency:
- 1) A GWS supplier conducting compliance monitoring pursuant to Section 611.803(b) must notify the Agency any time the supplier fails to meet any Agency-specified requirements including, but not limited to, minimum residual disinfectant concentration, membrane operating criteria or membrane integrity, and alternative treatment operating criteria, if operation in accordance with the criteria or requirements is not restored within four hours. The GWS supplier must notify the Agency as soon as possible, but in no case later than the end of the next business day.
 - 2) After completing any corrective action pursuant to Section 611.803(a), a GWS supplier must notify the Agency within 30 days after completion of the corrective action.
 - 3) If a GWS supplier subject to the requirements of Section 611.802(a) does not conduct source water monitoring pursuant to Section 611.802(a)(5)(B), the supplier must provide documentation to the Agency within 30 days of the total coliform-positive sample that it met the Agency criteria.

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- b) Recordkeeping. In addition to the requirements of Section 611.860, a GWS supplier regulated pursuant to this Subpart S must maintain the following information in its records:
- 1) Documentation of corrective actions. Documentation must be kept for a period of not less than ten years.
 - 2) Documentation of notice to the public as required pursuant to Section 611.803(a)(7). Documentation must be kept for a period of not less than three years.
 - 3) Records of decisions pursuant to Section 611.802(a)(5)(B) and records of invalidation of fecal indicator-positive groundwater source samples pursuant to Section 611.802(d). Documentation must be kept for a period of not less than five years.
 - 4) For a consecutive system supplier, documentation of notification to the wholesale systems of ~~total coliform-positive~~total coliform positive samples that are not invalidated pursuant to Section 611.523 until March 31, 2016, or pursuant to Section 611.1053 beginning April 1, 2016. Documentation must be kept for a period of not less than five years.
 - 5) For a supplier, including a wholesale system supplier, that is required to perform compliance monitoring pursuant to Section 611.803(b), the following information:
 - A) Records of the supplier-specified, Agency-approved minimum disinfectant residual. Documentation must be kept for a period of not less than ten years;
 - B) Records of the lowest daily residual disinfectant concentration and records of the date and duration of any failure to maintain the Agency-prescribed minimum residual disinfectant concentration for a period of more than four hours. Documentation must be kept for a period of not less than five years; and
 - C) Records of supplier-specified, Agency-approved compliance requirements for membrane filtration and of parameters specified by the Supplier for Agency-approved alternative treatment and records of the date and duration of any failure to meet the

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membrane operating, membrane integrity, or alternative treatment operating requirements for more than four hours. Documentation must be kept for a period of not less than five years.

BOARD NOTE: Derived from 40 CFR 141.405 ~~(2013), as added at 71 Fed. Reg. 65574 (Nov. 8, 2006).~~

(Source: Amended at 38 Ill. Reg. _____, effective _____)

SUBPART U: CONSUMER CONFIDENCE REPORTS

Section 611.883 Content of the Reports

- a) Each CWS must provide to its customers an annual report that contains the information specified in this Section and Section 611.884.
- b) Information on the source of the water delivered.
 - 1) Each report must identify the sources of the water delivered by the CWS by providing information on the following:
 - A) The type of the water (e.g., surface water, groundwater); and
 - B) The commonly used name (if any) and location of the body (or bodies) of water.
 - 2) If a source water assessment has been completed, the report must notify consumers of the availability of this information and the means to obtain it. In addition, systems are encouraged to highlight in the report significant sources of contamination in the source water area if they have readily available information. Where a system has received a source water assessment from the Agency, the report must include a brief summary of the system's susceptibility to potential sources of contamination, using language provided by the Agency or written by the supplier .
- c) Definitions.
 - 1) Each report must include the following definitions:

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- A) Maximum Contaminant Level Goal or MCLG: The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

BOARD NOTE: Although an MCLG is not an NPDWR that the Board must include in the Illinois SDWA regulations, the use of this definition is mandatory where the term "MCLG" is defined.

- B) Maximum Contaminant Level or MCL: The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

- 2) A report for a CWS operating under relief from an NPDWR issued under Section 611.111, 611.112, 611.130, or 611.131 must include the following definition: "Variances, Adjusted Standards, and Site-specific Rules: State permission not to meet an MCL or a treatment technique under certain conditions."

- 3) A report that contains data on contaminants that USEPA regulates using any of the following terms must include the applicable definitions:

- A) Treatment technique: A required process intended to reduce the level of a contaminant in drinking water.

- B) Action level: The concentration of a contaminant that, if exceeded, triggers treatment or other requirements that a water system must follow.

- C) Maximum residual disinfectant level goal or MRDLG: The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

BOARD NOTE: Although an MRDLG is not an NPDWR that the Board must include in the Illinois SDWA regulations, the use of this definition is mandatory where the term "MRDLG" is defined.

- D) Maximum residual disinfectant level or MRDL: The highest level of a disinfectant allowed in drinking water. There is convincing

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evidence that addition of a disinfectant is necessary for control of microbial contaminants.

- 4) A report that contains information regarding a level 1 or level 2 assessment required under Subpart AA of this Part must include the applicable of the following definitions:
- A) "Level 1 Assessment: A level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system."
- B) "Level 2 Assessment: A level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred or why total coliform bacteria have been found in our water system on multiple occasions."
- d) Information on detected contaminants.
- 1) This subsection (d) specifies the requirements for information to be included in each report for contaminants subject to mandatory monitoring (except *Cryptosporidium*). It applies to the following:
- A) Contaminants subject to an MCL, action level, MRDL, or treatment technique (regulated contaminants);
- B) Contaminants for which monitoring is required by Section 611.510 (unregulated contaminants); and
- C) Disinfection byproducts or microbial contaminants for which monitoring is required by Section 611.382 and Subpart L of this Part, except as provided under subsection (e)(1) of this Section, and which are detected in the finished water.
- 2) The data relating to these contaminants must be displayed in one table or in several adjacent tables. Any additional monitoring results that a CWS chooses to include in its report must be displayed separately.
- 3) The data must have been derived from data collected to comply with

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monitoring and analytical requirements during calendar year 1998 for the first report and must be derived from the data collected in subsequent calendar years , except that the following requirements also apply:

- A) Where a system is allowed to monitor for regulated contaminants less often than once a year, the tables must include the date and results of the most recent sampling, and the report must include a brief statement indicating that the data presented in the report is from the most recent testing done in accordance with the regulations. No data older than five years need be included.
 - B) Results of monitoring in compliance with Section 611.382 and Subpart L need only be included for five years from the date of last sample or until any of the detected contaminants becomes regulated and subject to routine monitoring requirements, whichever comes first.
- 4) For detected regulated contaminants (listed in Appendix A of this Part), the tables must contain the following:
- A) The MCL for that contaminant expressed as a number equal to or greater than 1.0 (as provided in Appendix A of this Part);
 - B) The federal Maximum Contaminant Level Goal (MCLG) for that contaminant expressed in the same units as the MCL;
 - C) If there is no MCL for a detected contaminant, the table must indicate that there is a treatment technique, or specify the action level, applicable to that contaminant, and the report must include the definitions for treatment technique or action level, as appropriate, specified in subsection (c)(3) of this Section;
 - D) For contaminants subject to an MCL, except turbidity, ~~and~~ total coliforms, fecal coliforms, and E. coli, the highest contaminant level used to determine compliance with an NPDWR, and the range of detected levels, as follows:
 - i) When compliance with the MCL is determined annually or less frequently: the highest detected level at any sampling

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point and the range of detected levels expressed in the same units as the MCL.

- ii) When compliance with the MCL is determined by calculating a running annual average of all samples taken at a monitoring location: the highest average of any of the monitoring locations and the range of all monitoring locations expressed in the same units as the MCL. For the MCLs for TTHM and HAA5 in Section 611.312(b)(2), the supplier must include the highest locational running annual average for TTHM and HAA5 and the range of individual sample results for all monitoring locations expressed in the same units as the MCL. If results from more than one location exceed the TTHM or HAA5 MCL, the supplier must include the locational running annual average for each location whose results exceed the MCL.
- iii) When compliance with the MCL is determined on a system-wide basis by calculating a running annual average of all samples at all monitoring locations: the average and range of detection expressed in the same units as the MCL. The supplier is required to include individual sample results for the IDSE conducted under Subpart W of this Part when determining the range of TTHM and HAA5 results to be reported in the annual consumer confidence report for the calendar year that the IDSE samples were taken.

BOARD NOTE to subsection (d)(4)(D): When rounding of results to determine compliance with the MCL is allowed by the regulations, rounding should be done prior to multiplying the results by the factor listed in Appendix A of this Part; derived from 40 CFR 153 ~~(2006)~~ (2013).

- E) For turbidity the following:
 - i) When it is reported pursuant to Section 611.560: the highest average monthly value.
 - ii) When it is reported pursuant to the requirements of Section

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611.211(b): the highest monthly value. The report must include an explanation of the reasons for measuring turbidity.

- iii) When it is reported pursuant to Section 611.250, 611.743, or 611.955(b): the highest single measurement and the lowest monthly percentage of samples meeting the turbidity limits specified in Section 611.250, 611.743, or 611.955(b) for the filtration technology being used. The report must include an explanation of the reasons for measuring turbidity;
- F) For lead and copper the following: the 90th percentile value of the most recent round of sampling and the number of sampling sites exceeding the action level;
- G) For total coliform analytical results until March 31, 2016, the following:
- i) The highest monthly number of positive samples for systems collecting fewer than 40 samples per month; or
 - ii) The highest monthly percentage of positive samples for systems collecting at least 40 samples per month;
- H) For fecal coliform and E. coli until March 31, 2016, the following: the total number of positive samples; ~~and~~
- I) The likely sources of detected contaminants to the best of the supplier's knowledge. Specific information regarding contaminants may be available in sanitary surveys and source water assessments, and must be used when available to the supplier. If the supplier lacks specific information on the likely source, the report must include one or more of the typical sources for that contaminant listed in Appendix G of this Part that are most applicable to the CWS; ~~and-~~
- J) For E. coli analytical results under Subpart AA of this Part, the total number of positive samples.

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- 5) If a CWS distributes water to its customers from multiple hydraulically independent distribution systems that are fed by different raw water sources, the table must contain a separate column for each service area and the report must identify each separate distribution system. Alternatively, a CWS may produce separate reports tailored to include data for each service area.
 - 6) The tables must clearly identify any data indicating violations of MCLs, MRDLs, or treatment techniques, and the report must contain a clear and readily understandable explanation of the violation including the following: the length of the violation, the potential adverse health effects, and actions taken by the CWS to address the violation. To describe the potential health effects, the CWS must use the relevant language of Appendix A of this Part.
 - 7) For detected unregulated contaminants for which monitoring is required (except *Cryptosporidium*), the tables must contain the average and range at which the contaminant was detected. The report may include a brief explanation of the reasons for monitoring for unregulated contaminants.
- e) Information on *Cryptosporidium*, radon, and other contaminants as follows:
- 1) If the CWS has performed any monitoring for *Cryptosporidium*, including monitoring performed to satisfy the requirements of Subpart L of this Part, that indicates that *Cryptosporidium* may be present in the source water or the finished water, the report must include the following:
 - A) A summary of the results of the monitoring; and
 - B) An explanation of the significance of the results.
 - 2) If the CWS has performed any monitoring for radon that indicates that radon may be present in the finished water, the report must include the following:
 - A) The results of the monitoring; and
 - B) An explanation of the significance of the results.

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- 3) If the CWS has performed additional monitoring that indicates the presence of other contaminants in the finished water, the report must include the following:
 - A) The results of the monitoring; and
 - B) An explanation of the significance of the results noting the existence of any health advisory or proposed regulation.
- f) Compliance with an NPDWR. In addition to the requirements of subsection (d)(6) of this Section, the report must note any violation that occurred during the year covered by the report of a requirement listed below, and include a clear and readily understandable explanation of the violation, any potential adverse health effects, and the steps the CWS has taken to correct the violation.
 - 1) Monitoring and reporting of compliance data.
 - 2) Filtration and disinfection prescribed by Subpart B of this Part. For CWSs that have failed to install adequate filtration or disinfection equipment or processes, or have had a failure of such equipment or processes that constitutes a violation, the report must include the following language as part of the explanation of potential adverse health effects: Inadequately treated water may contain disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.
 - 3) Lead and copper control requirements prescribed by Subpart G of this Part. For systems that fail to take one or more actions prescribed by Section 611.350(d), 611.351, 611.352, 611.353, or 611.354, the report must include the applicable language of Appendix A of this Part for lead, copper, or both.
 - 4) Treatment techniques for acrylamide and epichlorohydrin prescribed by Section 611.296. For systems that violate the requirements of Section 611.296, the report must include the relevant language from Appendix A of this Part.
 - 5) Recordkeeping of compliance data.

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- 6) Special monitoring requirements prescribed by Sections 611.510 and 611.630.
- 7) Violation of the terms of a variance, adjusted standard, site-specific rule, or administrative or judicial order.
- g) Variances, adjusted standards, and site-specific rules. If a system is operating under the terms of a variance, adjusted standard, or site-specific rule issued under Section 611.111, 611.112, or 611.131, the report must contain the following:
 - 1) An explanation of the reasons for the variance, adjusted standard, or site-specific rule;
 - 2) The date on which the variance, adjusted standard, or site-specific rule was issued;
 - 3) A brief status report on the steps the CWS is taking to install treatment, find alternative sources of water, or otherwise comply with the terms and schedules of the variance, adjusted standard, or site-specific rule; and
 - 4) A notice of any opportunity for public input in the review, or renewal, of the variance, adjusted standard, or site-specific rule.
- h) Additional information.
 - 1) The report must contain a brief explanation regarding contaminants that may reasonably be expected to be found in drinking water, including bottled water. This explanation may include the language of subsections (h)(1)(A) through (h)(1)(C) of this Section or CWSs may use their own comparable language. The report also must include the language of subsection (h)(1)(D) of this Section.
 - A) The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

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- B) Contaminants that may be present in source water include the following:
- i) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife;
 - ii) Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming;
 - iii) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses;
 - iv) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems; and
 - v) Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.
- C) In order to ensure that tap water is safe to drink, USEPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. United States Food and Drug Administration (USFDA) regulations establish limits for contaminants in bottled water that must provide the same protection for public health.
- D) Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA

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Safe Drinking Water Hotline (800-426-4791).

- 2) The report must include the telephone number of the owner, operator, or designee of the CWS as a source of additional information concerning the report.
- 3) In communities with a large proportion of non-English speaking residents, as determined by the Agency, the report must contain information in the appropriate languages regarding the importance of the report or contain a telephone number or address where such residents may contact the system to obtain a translated copy of the report or assistance in the appropriate language.
- 4) The report must include information about opportunities for public participation in decisions that may affect the quality of the water.
- 5) The CWS may include such additional information as it deems necessary for public education consistent with, and not detracting from, the purpose of the report.
- 6) Suppliers required to comply with Subpart S of this Part.
 - A) Any GWS supplier that receives written notice from the Agency of a significant deficiency or which receives notice from a laboratory of a fecal indicator-positive groundwater source sample that is not invalidated by the Agency pursuant to Section 611.802(d) must inform its customers of any significant deficiency that is uncorrected at the time of the next report or of any fecal indicator-positive groundwater source sample in the next report. The supplier must continue to inform the public annually until the Agency, by a SEP issued pursuant to Section 611.110, determines that particular significant deficiency is corrected or the fecal contamination in the groundwater source is addressed pursuant to Section 611.803(a). Each report must include the following information:
 - i) The nature of the particular significant deficiency or the source of the fecal contamination (if the source is known) and the date the significant deficiency was identified by the

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Agency or the dates of the fecal indicator-positive groundwater source samples;

- ii) Whether or not the fecal contamination in the groundwater source has been addressed pursuant to Section 611.803(a) and the date of such action;
 - iii) For each significant deficiency or fecal contamination in the groundwater source that has not been addressed pursuant to Section 611.803(a), the Agency-approved plan and schedule for correction, including interim measures, progress to date, and any interim measures completed; and
 - iv) If the system receives notice of a fecal indicator-positive groundwater source sample that is not invalidated by the Agency pursuant to Section 611.802(d), the potential health effects using the health effects language of Appendix A of this Part.
- B) If directed by the Agency by a SEP issued pursuant to Section 611.110, a supplier with significant deficiencies that have been corrected before the next report is issued must inform its customers of the significant deficiency, how the deficiency was corrected, and the date of correction pursuant to subsection (h)(6)(A) of this Section.

7) Suppliers required to comply with Subpart AA of this Part.

A) Any supplier required to comply with the level 1 assessment requirement or a level 2 assessment requirement that is not due to an E. coli MCL violation must include in the report the text found in subsection (h)(7)(A)(i), (h)(7)(A)(ii) and (h)(7)(A)(iii) of this Section, as appropriate, filling in the blanks accordingly and the text found in subsection (h)(7)(A)(iv) of this Section, if appropriate.

- i) "Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present

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or that a potential pathway exists through which contamination may enter the drinking water distribution system. We found coliforms indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) to identify problems and to correct any problems that were found during these assessments."

ii) "During the past year we were required to conduct [insert number of level 1 assessments] level 1 assessment(s). [insert number of level 1 assessments] level 1 assessment(s) were completed. In addition, we were required to take [insert number of corrective actions] corrective actions and we completed [insert number of corrective actions] of these actions."

iii) "During the past year [insert number of level 2 assessments] level 2 assessments were required to be completed for our water system. [insert number of level 2 assessments] level 2 assessments were completed. In addition, we were required to take [insert number of corrective actions] corrective actions and we completed [insert number of corrective actions] of these actions."

iv) Any supplier that has failed to complete all the required assessments or correct all identified sanitary defects is in violation of the treatment technique requirement and must also include one or both of the following statements, as appropriate: "During the past year we failed to conduct all of the required assessment(s)." or "During the past year we failed to correct all identified defects that were found during the assessment."

B) Any supplier required to conduct a level 2 assessment due to an E. coli MCL violation must include in the report the text found in subsections (h)(7)(B)(i) and (h)(7)(B)(ii) of this Section, filling in the blanks accordingly and the appropriate alternative text found in subsection (h)(7)(B)(ii) of this Section, if appropriate.

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- i) "E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a greater health risk for infants, young children, the elderly, and people with severely compromised immune systems. We found E. coli bacteria, indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) to identify problems and to correct any problems that were found during these assessments."
 - ii) "We were required to complete a level 2 assessment because we found E. coli in our water system. In addition, we were required to take [insert number of corrective actions] corrective actions and we completed [insert number of corrective actions] of these actions."
 - iii) Any supplier that has failed to complete the required assessment or correct all identified sanitary defects is in violation of the treatment technique requirement and must also include one or both of the following statements, as appropriate: "We failed to conduct the required assessment." or "We failed to correct all sanitary defects that were identified during the assessment that we conducted."
- C) If a supplier detects E. coli and has violated the E. coli MCL, in addition to completing the table, as required in subsection (d)(4) of this Section, the supplier must include one or more of the following statements to describe any noncompliance, as applicable:
- i) "We had an E. coli-positive repeat sample following a total coliform-positive routine sample."
 - ii) "We had a total coliform-positive repeat sample following an E. coli-positive routine sample."

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iii) "We failed to take all required repeat samples following an E. coli-positive routine sample."

iv) "We failed to test for E. coli when any repeat sample tested positive for total coliform."

D) If a supplier detects E. coli and has not violated the E. coli MCL, in addition to completing the table as required in subsection (d)(4) of this Section, the supplier may include a statement that explains that, although it has detected E. coli, it is not in violation of the E. coli MCL.

BOARD NOTE: Derived from 40 CFR 141.153 ~~(2013)(2006), as amended at 71 Fed. Reg. 65574 (Nov. 8, 2006).~~

(Source: Amended at 38 Ill. Reg. _____, effective _____)

Section 611.885 Report Delivery and Recordkeeping

- a) Except as provided in subsection (g) of this Section, each CWS must mail or otherwise directly deliver one copy of the report to each customer.
- b) The CWS must make a good faith effort to reach consumers who do not get water bills, using a means approved by the Agency by a SEP ~~issued~~granted pursuant to Section 611.110. A good faith effort to reach consumers includes, but is not limited to, methods such as the following: posting the reports on the Internet, advertising the availability of the report in the news media, publication in a local newspaper, or delivery to community organizations.
- c) No later than the date the CWS is required to distribute the report to its customers, each CWS must mail a copy of the report to the Agency, followed within three months by a certification that the report has been distributed to customers, and that the information is correct and consistent with the compliance monitoring data previously submitted to the Agency.
- d) No later than the date the CWS is required to distribute the report to its customers, each CWS must deliver the report to any other agency or clearinghouse identified by the Agency.

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- e) Each CWS must make its reports available to the public upon request.
- f) Each CWS serving 100,000 or more persons must post its current year's report to a publicly-accessible site on the Internet.
- g) The Governor or his designee may waive the requirement of subsection (a) of this Section for a CWS serving fewer than 10,000 persons.
 - 1) Such a CWS must do the following:
 - A) The CWS must publish the report in one or more local newspapers serving the county in which the CWS is located;
 - B) The CWS must inform the customers that the report will not be mailed, either in the newspapers in which the report is published or by other means approved by the Agency; and
 - C) The CWS must make the report available to the public upon request.
 - 2) Systems serving fewer than 500 persons may forgo the requirements of subsections (g)(1)(A) and (g)(1)(B) of this Section if they provide notice at least once per year to their customers by mail, by door-to-door delivery, or by posting in a location approved by the Agency that the report is available upon request.
- h) Any system subject to this Subpart U must retain copies of its consumer confidence report for no less than three years.

BOARD NOTE: Derived from 40 CFR 141.155 ~~(2002)~~ (2013).

(Source: Amended at 38 Ill. Reg. _____, effective _____)

SUBPART V: PUBLIC NOTIFICATION OF DRINKING WATER VIOLATIONS

Section 611.901 General Public Notification Requirements

The requirements of this Subpart V replace former notice requirements.

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- a) Who must give public notice. Each owner or operator of a public water system (a CWS, an NTNCWS, or a transient non-CWS) must give notice for all violations of an NPDWR and for other situations, as listed in this subsection (a). The term "NPDWR violation" is used in this Subpart V to include violations of an MCL, an MRDL, a treatment technique, monitoring requirements, or a testing procedure set forth in this Part. Appendix G to this Part identifies the tier assignment for each specific violation or situation requiring a public notice.
- 1) NPDWR violations.
 - A) A failure to comply with an applicable MCL or MRDL.
 - B) A failure to comply with a prescribed treatment technique.
 - C) A failure to perform water quality monitoring, as required by this Part.
 - D) A failure to comply with testing procedures as prescribed by this Part.
 - 2) Relief equivalent to a variance and exemptions under sections 1415 and 1416 of SDWA.
 - A) Operation under relief equivalent to a SDWA section 1415 variance, under Section 611.111, or a SDWA section 1416 exemption, under Section 611.112.
 - B) A failure to comply with the requirements of any schedule that has been set under relief equivalent to a SDWA section 1415 variance, under Section 611.111, or a SDWA section 1415 exemption, under Section 611.112.
 - 3) Special public notices.
 - A) The occurrence of a waterborne disease outbreak or other waterborne emergency.
 - B) An exceedence of the nitrate MCL by a non-CWS, where granted permission by the Agency under Section 611.300(d).

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- C) An exceedence of the secondary fluoride standard of Section 611.858.
 - D) The availability of unregulated contaminant monitoring data.
 - E) Other violations and situations determined by the Agency by a SEP issued pursuant to Section 611.110 to require a public notice under this Subpart V, not already listed in Appendix G of this Part.
- b) The type of public notice required for each violation or situation. The public notice requirements of this Subpart V are divided into three tiers, to take into account the seriousness of the violation or situation and of any potential adverse health effects that may be involved. The public notice requirements for each violation or situation listed in subsection (a) of this Section are determined by the tier to which it is assigned. This subsection (b) provides the definition of each tier. Appendix G of this Part identifies the tier assignment for each specific violation or situation.
- 1) Tier 1 public notice: required for NPDWR violations and situations with significant potential to have serious adverse effects on human health as a result of short-term exposure.
 - 2) Tier 2 public notice: required for all other NPDWR violations and situations with potential to have serious adverse effects on human health.
 - 3) Tier 3 public notice: required for all other NPDWR violations and situations not included in Tier 1 and Tier 2.
- c) Who must receive notice.
- 1) Each PWS supplier must provide public notice to persons served by the water supplier, in accordance with this Subpart V. A PWS supplier that sells or otherwise provides drinking water to another PWS supplier (i.e., to a consecutive system) is required to give public notice to the owner or operator of the consecutive system; the consecutive system supplier is responsible for providing public notice to the persons it serves.
 - 2) If a PWS supplier has a violation in a portion of the distribution system

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that is physically or hydraulically isolated from other parts of the distribution system, the Agency may allow the system to limit distribution of the public notice to only persons served by that portion of the system that is out of compliance. Permission by the Agency for limiting distribution of the notice must be granted in writing, by a SEP ~~issued~~^{granted} pursuant to Section 611.110.

- 3) A copy of the notice must also be sent to the Agency, in accordance with the requirements under Section 611.840(d).

BOARD NOTE: Derived from 40 CFR 141.201 ~~(2013)~~⁽²⁰⁰²⁾.

(Source: Amended at 38 Ill. Reg. _____, effective _____)

Section 611.902 Tier 1 Public Notice: Form, Manner, and Frequency of Notice

- a) Violations or situations that require a Tier 1 public notice. This subsection (a) lists the violation categories and other situations requiring a Tier 1 public notice. Appendix G of this Part identifies the tier assignment for each specific violation or situation. The violation categories include:
 - 1) ~~Until March 31, 2016, violation~~^{Violation} of the MCL for total coliforms when fecal coliform or E. coli are present in the water distribution system (as specified in Section 611.325(b)), or when the water supplier fails to test for fecal coliforms or E. coli when any repeat sample tests positive for coliform (as specified in Section 611.525). ~~Beginning April 1, 2016, violation of the MCL for E. coli (as specified in Section 611.325(c)).~~
 - 2) Violation of the MCL for nitrate, nitrite, or total nitrate and nitrite, as defined in Section 611.301, or when the water supplier fails to take a confirmation sample within 24 hours after the supplier's receipt of the results from the first sample showing an exceedence of the nitrate or nitrite MCL, as specified in Section 611.606(b).
 - 3) Exceedence of the nitrate MCL by a non-CWS supplier, where permitted to exceed the MCL by the Agency under Section 611.300(d), as required under Section 611.909.
 - 4) Violation of the MRDL for chlorine dioxide, as defined in Section

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611.313(a), when one or more samples taken in the distribution system the day following an exceedence of the MRDL at the entrance of the distribution system exceed the MRDL, or when the water supplier does not take the required samples in the distribution system, as specified in Section 611.383(c)(2)(A).

- 5) This subsection (a)(5) refers to a violation of the former turbidity standard of Section 611.320, which the Board repealed because it applied to no suppliers in Illinois. This statement maintains structural consistency with the federal regulations.
 - 6) Violation of the Surface Water Treatment Rule (SWTR), Interim Enhanced Surface Water Treatment Rule (IESWTR), or Long Term 1 Enhanced Surface Water Treatment Rule (LT1ESWTR) treatment technique requirement resulting from a single exceedence of the maximum allowable turbidity limit (as identified in Appendix G), where the Agency determines after consultation that a Tier 1 notice is required or where consultation does not take place within 24 hours after the supplier learns of the violation.
 - 7) Occurrence of a waterborne disease outbreak, as defined in Section 611.101, or other waterborne emergency (such as a failure or significant interruption in key water treatment processes, a natural disaster that disrupts the water supply or distribution system, or a chemical spill or unexpected loading of possible pathogens into the source water that significantly increases the potential for drinking water contamination).
 - 8) Detection of E. coli, enterococci, or coliphage in source water samples, as specified in Section 611.802(a) and (b).
 - 9) Other violations or situations with significant potential to have serious adverse effects on human health as a result of short-term exposure, as determined by the Agency by a SEP issued pursuant to Section 611.110.
- b) When the Tier 1 public notice is to be provided. Additional steps required. A PWS supplier must do the following:
- 1) It must provide a public notice as soon as practical but no later than 24 hours after the supplier learns of the violation;

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- 2) It must initiate consultation with the Agency as soon as practical, but no later than 24 hours after the PWS supplier learns of the violation or situation, to determine additional public notice requirements; and
 - 3) It must comply with any additional public notification requirements (including any repeat notices or direction on the duration of the posted notices) that are established as a result of the consultation with the Agency. Such requirements may include the timing, form, manner, frequency, and content of repeat notices (if any) and other actions designed to reach all persons served.
- c) The form and manner of the public notice. A PWS supplier must provide the notice within 24 hours in a form and manner reasonably calculated to reach all persons served. The form and manner used by the PWS supplier are to fit the specific situation, but must be designed to reach residential, transient, and non-transient users of the water system. In order to reach all persons served, a water supplier is to use, at a minimum, one or more of the following forms of delivery:
- 1) Appropriate broadcast media (such as radio and television);
 - 2) Posting of the notice in conspicuous locations throughout the area served by the water supplier;
 - 3) Hand delivery of the notice to persons served by the water supplier; or
 - 4) Another delivery method approved in writing by the Agency by a SEP issued pursuant to Section 611.110.

BOARD NOTE: Derived from 40 CFR 141.202 ~~(2013)(2006), as amended at 71 Fed. Reg. 65574 (Nov. 8, 2006).~~

(Source: Amended at 38 Ill. Reg. _____, effective _____)

Section 611.903 Tier 2 Public Notice: Form, Manner, and Frequency of Notice

- a) Violations or situations that require a Tier 2 public notice. This subsection (a) lists the violation categories and other situations requiring a Tier 2 public notice. Appendix G to this Part identifies the tier assignment for each specific violation

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or situation.

- 1) All violations of the MCL, MRDL, and treatment technique requirements, except where a Tier 1 notice is required under Section 611.902(a) or where the Agency determines by a SEP issued pursuant to Section 611.110 that a Tier 1 notice is required.
 - 2) Violations of the monitoring and testing procedure requirements, where the Agency determines by a SEP issued pursuant to Section 611.110 that a Tier 2 rather than a Tier 3 public notice is required, taking into account potential health impacts and persistence of the violation.
 - 3) Failure to comply with the terms and conditions of any relief equivalent to a SDWA section 1415 variance or a SDWA section 1416 exemption in place.
 - 4) Failure to take corrective action or failure to maintain 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 pursuant to Section 611.803(a).
- b) When Tier 2 public notice is to be provided.
- 1) A PWS supplier must provide the public notice as soon as practical, but no later than 30 days after the supplier learns of the violation. If the public notice is posted, the notice must remain in place for as long as the violation or situation persists, but in no case for less than seven days, even if the violation or situation is resolved. The Agency may, in appropriate circumstances, by a SEP issued pursuant to Section 611.110, allow additional time for the initial notice of up to three months from the date the supplier learns of the violation. It is not appropriate for the Agency to grant an extension to the 30-day deadline for any unresolved violation or to allow across-the-board extensions by rule or policy for other violations or situations requiring a Tier 2 public notice. Extensions granted by the Agency must be in writing.
 - 2) The PWS supplier must repeat the notice every three months as long as the violation or situation persists, unless the Agency determines that appropriate circumstances warrant a different repeat notice frequency. In

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no circumstance may the repeat notice be given less frequently than once per year. It is not appropriate for the Agency to allow less frequent repeat notice for an MCL or treatment technique violation under the Total Coliform Rule or Subpart AA of this Part or a treatment technique violation under the Surface Water Treatment Rule or Interim Enhanced Surface Water Treatment Rule. It is also not appropriate for the Agency to allow across-the-board reductions in the repeat notice frequency for other ongoing violations requiring a Tier 2 repeat notice. An Agency determination allowing repeat notices to be given less frequently than once every three months must be in writing.

- 3) For the turbidity violations specified in this subsection (b)(3), a PWS supplier must consult with the Agency as soon as practical but no later than 24 hours after the supplier learns of the violation, to determine whether a Tier 1 public notice under Section 611.902(a) is required to protect public health. When consultation does not take place within the 24-hour period, the water system must distribute a Tier 1 notice of the violation within the next 24 hours (i.e., no later than 48 hours after the supplier learns of the violation), following the requirements under Section 611.902(b) and (c). Consultation with the Agency is required for the following:
 - A) Violation of the turbidity MCL under Section 611.320(b); or
 - B) Violation of the SWTR, IESWTR, or treatment technique requirement resulting from a single exceedence of the maximum allowable turbidity limit.
- c) The form and manner of Tier 2 public notice. A PWS supplier must provide the initial public notice and any repeat notices in a form and manner that is reasonably calculated to reach persons served in the required time period. The form and manner of the public notice may vary based on the specific situation and type of water system, but it must at a minimum meet the following requirements:
 - 1) Unless directed otherwise by the Agency in writing, by a SEP issued pursuant to Section 611.110, a CWS supplier must provide notice by the following:
 - A) Mail or other direct delivery to each customer receiving a bill and

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to other service connections to which water is delivered by the PWS supplier; and

- B) Any other method reasonably calculated to reach other persons regularly served by the supplier, if they would not normally be reached by the notice required in subsection (c)(1)(A) of this Section. Such persons may include those who do not pay water bills or do not have service connection addresses (e.g., house renters, apartment dwellers, university students, nursing home patients, prison inmates, etc.). Other methods may include: Publication in a local newspaper; delivery of multiple copies for distribution by customers that provide their drinking water to others (e.g., apartment building owners or large private employers); posting in public places served by the supplier or on the Internet; or delivery to community organizations.
- 2) Unless directed otherwise by the Agency in writing, by a SEP issued pursuant to Section 611.110, a non-CWS supplier must provide notice by the following means:
- A) Posting the notice in conspicuous locations throughout the distribution system frequented by persons served by the supplier, or by mail or direct delivery to each customer and service connection (where known); and
 - B) Any other method reasonably calculated to reach other persons served by the system if they would not normally be reached by the notice required in subsection (c)(2)(A) of this Section. Such persons may include those served who may not see a posted notice because the posted notice is not in a location they routinely pass by. Other methods may include the following: Publication in a local newspaper or newsletter distributed to customers; use of E-mail to notify employees or students; or delivery of multiple copies in central locations (e.g., community centers).

BOARD NOTE: Derived from 40 CFR 141.203 ~~(2013)(2006), as amended at 71 Fed. Reg. 65574 (Nov. 8, 2006).~~

(Source: Amended at 38 Ill. Reg. _____, effective _____)

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Section 611.904 Tier 3 Public Notice: Form, Manner, and Frequency of Notice

- a) Violations or situations that require a Tier 3 public notice. This subsection (a) lists the violation categories and other situations requiring a Tier 3 public notice. Appendix G of this Part identifies the tier assignment for each specific violation or situation.
- 1) Monitoring violations under this Part, except where a Tier 1 notice is required under Section 611.902(a) or where the Agency determines by a SEP issued pursuant to Section 611.110 that a Tier 2 notice is required;
 - 2) Failure to comply with a testing procedure established in this Part, except where a Tier 1 notice is required under Section 611.902(a) or where the Agency determines by a SEP issued pursuant to Section 611.110 that a Tier 2 notice is required;
 - 3) Operation under relief equivalent to a SDWA section 1415 variance granted under Section 611.111 or relief equivalent to a SDWA section 1416 exemption granted under Section 611.112;
 - 4) Availability of unregulated contaminant monitoring results, as required under Section 611.907;~~and~~
 - 5) Exceedence of the secondary standard for fluoride under Section 611.858, as required under Section 611.908;~~and~~
 - 6) Reporting and recordkeeping violations under Subpart AA of this Part.
- b) When the Tier 3 public notice is to be provided.
- 1) A PWS supplier must provide the public notice not later than one year after the supplier learns of the violation or situation or begins operating under relief equivalent to a SDWA section 1415 variance or section 1416 exemption. Following the initial notice, the supplier must repeat the notice annually for as long as the violation, relief equivalent to a SDWA section 1415 variance or section 1416 exemption, or other situation persists. If the public notice is posted, the notice must remain in place for as long as the violation, relief equivalent to a SDWA section 1415

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variance or section 1416 exemption, or other situation persists, but in no case less than seven days (even if the violation or situation is resolved).

- 2) Instead of individual Tier 3 public notices, a PWS supplier may use an annual report detailing all violations and situations that occurred during the previous twelve months, as long as the timing requirements of subsection (b)(1) of this Section are met.
- c) The form and manner of the Tier 3 public notice. A PWS supplier must provide the initial notice and any repeat notices in a form and manner that is reasonably calculated to reach persons served in the required time period. The form and manner of the public notice may vary based on the specific situation and type of water system, but it must at a minimum meet the following requirements:
 - 1) Unless directed otherwise by the Agency by a SEP issued pursuant to Section 611.110 in writing, a CWS supplier must provide notice by the following:
 - A) Mail or other direct delivery to each customer receiving a bill and to other service connections to which water is delivered by the supplier; and
 - B) Any other method reasonably calculated to reach other persons regularly served by the supplier, if they would not normally be reached by the notice required in subsection (c)(1)(A) of this Section. Such persons may include those who do not pay water bills or do not have service connection addresses (e.g., house renters, apartment dwellers, university students, nursing home patients, prison inmates, etc.). Other methods may include the following: publication in a local newspaper; delivery of multiple copies for distribution by customers that provide their drinking water to others (e.g., apartment building owners or large private employers); posting in public places or on the Internet; or delivery to community organizations.
 - 2) Unless directed otherwise by the Agency by a SEP issued pursuant to Section 611.110 in writing, a non-CWS supplier must provide notice by the following:

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- A) Posting the notice in conspicuous locations throughout the distribution system frequented by persons served by the supplier, or by mail or direct delivery to each customer and service connection (where known); and
- B) Any other method reasonably calculated to reach other persons served by the supplier, if they would not normally be reached by the notice required in subsection (c)(2)(A) of this Section. Such persons may include those who may not see a posted notice because the notice is not in a location they routinely pass by. Other methods may include the following: publication in a local newspaper or newsletter distributed to customers; use of E-mail to notify employees or students; or, delivery of multiple copies in central locations (e.g., community centers).
- d) When the Consumer Confidence Report may be used to meet the Tier 3 public notice requirements. For a CWS supplier, the Consumer Confidence Report (CCR) required under Subpart U of this Part may be used as a vehicle for the initial Tier 3 public notice and all required repeat notices, as long as the following is true:
- 1) The CCR is provided to persons served no later than 12 months after the supplier learns of the violation or situation as required under Section 611.904(b);
 - 2) The Tier 3 notice contained in the CCR follows the content requirements under Section 611.905; and
 - 3) The CCR is distributed following the delivery requirements under Section 611.904(c).

BOARD NOTE: Derived from 40 CFR 141.204 ~~(2002)~~ (2013).

(Source: Amended at 38 Ill. Reg. _____, effective _____)

SUBPART Z: ENHANCED TREATMENT FOR CRYPTOSPORIDIUM

Section 611.1007 Source Water Monitoring Requirements: Grandfathering Previously Collected Data

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- a) Initial source monitoring and Cryptosporidium samples.
 - 1) A supplier may comply with the initial source water monitoring requirements of Section 611.1001(a) by grandfathering sample results collected before the supplier is required to begin monitoring (i.e., previously collected data). To be grandfathered, the sample results and analysis must meet the criteria in this Section and the Agency must approve the use of the data by a SEP issued pursuant to Section 611.110.
 - 2) A filtered system supplier may grandfather Cryptosporidium samples to meet the requirements of Section 611.1001(a) when the supplier does not have corresponding E. coli and turbidity samples. A supplier that grandfatheres Cryptosporidium samples without E. coli and turbidity samples is not required to collect E. coli and turbidity samples when it completes the requirements for Cryptosporidium monitoring pursuant to Section 611.1001(a).
- b) E. coli sample analysis. The analysis of E. coli samples must meet the analytical method and approved laboratory requirements of Sections 611.1004 and 611.1005.
- c) Cryptosporidium sample analysis. The analysis of Cryptosporidium samples must meet the criteria in this subsection (c).
 - 1) Laboratories must analyze Cryptosporidium samples using one of the following analytical methods, or alternative methods approved by the Agency pursuant to Section 611.480:
 - A) USEPA OGWDW Methods, Method 1623 (05), incorporated by reference in Section 611.102;
 - B) USEPA OGWDW Methods, Method 1622 (05), incorporated by reference in Section 611.102;
 - C) USEPA OGWDW Methods, Method 1623 (01), incorporated by reference in Section 611.102;

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- D) USEPA OGWDW Methods, Method 1622 (01), incorporated by reference in Section 611.102;
 - E) USEPA OGWDW Methods, Method 1623 (99), incorporated by reference in Section 611.102; or
 - F) USEPA OGWDW Methods, Method 1622 (99), incorporated by reference in Section 611.102.
- 2) For each *Cryptosporidium* sample, the laboratory analyzed at least 10 ℓ of sample or at least 2 ml of packed pellet or as much volume as could be filtered by two filters that USEPA approved for the methods listed in subsection (c)(1) of this Section.
- d) Sampling location. The sampling location must meet the conditions in Section 611.1003.
- e) Sampling frequency. *Cryptosporidium* samples were collected no less frequently than each calendar month on a regular schedule, beginning no earlier than January 1999. Sample collection intervals may vary for the conditions specified in Section 611.1002(b)(1) and (b)(2) if the supplier provides documentation of the condition when reporting monitoring results.
- 1) The Agency may, by a SEP issued pursuant to Section 611.110, approve grandfathering of previously collected data where there are time gaps in the sampling frequency if the supplier conducts additional monitoring that the Agency has specified by a SEP issued pursuant to Section 611.110 to ensure that the data used to comply with the initial source water monitoring requirements of Section 611.1001(a) are seasonally representative and unbiased.
 - 2) A supplier may grandfather previously collected data where the sampling frequency within each month varied. If the *Cryptosporidium* sampling frequency varied, the supplier must follow the monthly averaging procedure in Section 611.1010(b)(5) or Section 611.1012(a)(3), as applicable, when calculating the bin classification for a filtered system supplier or the mean *Cryptosporidium* concentration for an unfiltered system supplier.

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- f) Reporting monitoring results for grandfathering. A supplier that requests to grandfather previously collected monitoring results must report the following information by the applicable dates listed in this subsection. A supplier must report this information to the Agency.
- 1) A supplier must report that it intends to submit previously collected monitoring results for grandfathering. This report must specify the number of previously collected results the supplier will submit, the dates of the first and last sample, and whether a supplier will conduct additional source water monitoring to meet the requirements of Section 611.1001(a). The supplier must report this information no later than the applicable date set forth in Section 611.1002.
 - 2) A supplier must report previously collected monitoring results for grandfathering, along with the associated documentation listed in subsections (f)(2)(A) through (f)(2)(D) of this Section, no later than two months after the applicable date listed in Section 611.1001(c).
 - A) For each sample result, a supplier must report the applicable data elements in Section 611.1006.
 - B) A supplier must certify that the reported monitoring results include all results that it generated during the time period beginning with the first reported result and ending with the final reported result. This applies to samples that were collected from the sampling location specified for source water monitoring pursuant to this Subpart Z, which were not spiked, and which were analyzed using the laboratory's routine process for the analytical methods listed in this Section.
 - C) The supplier must certify that the samples were representative of a plant's source waters and the source waters have not changed. It must report a description of the sampling locations, which must address the position of the sampling location in relation to its water sources and treatment processes, including points of chemical addition and filter backwash recycle.
 - D) For Cryptosporidium samples, the laboratory or laboratories that analyzed the samples must provide a letter certifying that the

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quality control criteria specified in the methods listed in subsection (c)(1) of this Section were met for each sample batch associated with the reported results. Alternatively, the laboratory may provide bench sheets and sample examination report forms for each field, matrix spike, initial precision and recovery, ongoing precision and recovery, and method blank sample associated with the reported results.

- g) If the Agency determines that a previously collected data set submitted for grandfathering was generated during source water conditions that were not normal for the supplier, such as a drought, the Agency may, by a SEP issued pursuant to Section 611.110, disapprove the data. Alternatively, the Agency may, by a SEP issued pursuant to Section 611.110, approve the previously collected data if the supplier reports additional source water monitoring data, as determined by the Agency, to ensure that the data set used pursuant to Section 611.1010 or Section 611.1012 represents average source water conditions for the supplier.
- h) If a supplier submits previously collected data that fully meet the number of samples required for initial source water monitoring pursuant to Section 611.1001(a), and some of the data are rejected due to not meeting the requirements of this Section, the supplier must conduct additional monitoring to replace rejected data on a schedule that the Agency has approved by a SEP issued pursuant to Section 611.110. A supplier is not required to begin this additional monitoring until two months after notification that data have been rejected and additional monitoring is necessary.

BOARD NOTE: Derived from 40 CFR 141.707 (2013)(2007).

(Source: Amended at 38 Ill. Reg. _____, effective _____)

SUBPART AA: REVISED TOTAL COLIFORM RULE
AIRCRAFT DRINKING WATER RULE

Section 611.1051 General

- a) General. The provisions of this Subpart AA include both MCL and treatment technique requirements.
- b) Applicability. The provisions of this Subpart AA apply to all PWSs.

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- c) Compliance date. Systems must comply with the provisions of this Subpart AA beginning April 1, 2016, unless otherwise specified in this Subpart AA.
- d) This subsection (d) corresponds with 40 CFR 141.851(d), a provision that pertains to USEPA implementation, which is not necessary in the Illinois regulations. This statement maintains structural consistency with the federal regulations.
- e) Violations of NPDWRs. Failure to comply with the applicable requirements of Sections 611.1051 through 611.1061, including requirements established by the State pursuant to these provisions, is a violation of the NPDWRs in this Subpart AA.

BOARD NOTE: Derived from 40 CFR 141.851 (2013).

(Source: Amended at 38 Ill. Reg. _____, effective _____)

Section 611.1052 Analytical Methods and Laboratory Certification

- a) Analytical methodology.
 - 1) The standard sample volume required for analysis, regardless of analytical method used, is 100 mL.
 - 2) A supplier needs only determine the presence or absence of total coliforms and E. coli; a determination of density is not required.
 - 3) The time from sample collection to initiation of test medium incubation may not exceed 30 hours. Suppliers are encouraged but not required to hold samples below 10° C during transit.
 - 4) If water having residual chlorine (measured as free, combined, or total chlorine) is to be analyzed, sufficient sodium thiosulfate (Na₂S₂O₃) must be added to the sample bottle before sterilization to neutralize any residual chlorine in the water sample. Dechlorination procedures are addressed in section 2 of Standard Methods, 20th or 21st ed., Method 9060 A, each incorporated by reference in Section 611.102.

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- 5) The supplier must conduct total coliform and E. coli analyses in accordance with one of the following analytical methods, each incorporated by reference in Section 611.102:

BOARD NOTE: All monitoring and analyses must be done in accordance with the version of the approved method recited in this subsection (a) and incorporated by reference in Section 611.102. The methods listed are the only versions that may be used for compliance with this Part. Laboratories should be careful to use only the approved versions of the methods, as product package inserts may not be the same as the approved versions of the methods.

A) Total coliforms, lactose fermentation methods:

- i) Standard total coliform fermentation technique: sections 1 and 2 of Standard Methods, 20th, 21st, or 22nd ed., Method 9221 B; or

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 lactose broth and lauryl tryptose broth using the water normally tested, and if the findings from this comparison demonstrate that the false-positive rate and false-negative rate for total coliforms, using lactose broth, is less than 10 percent. Because Standard Methods, 21st ed., Method 9221 B is the same version as Standard Methods Online 9221 B-99, the Board has not listed the Standard Methods Online version separately.

- ii) Presence-absence (P-A) coliform test: sections 1 and 2 of Standard Methods, 20th or 21st, Method 9221 D.

BOARD NOTE: A multiple tube enumerative format, as described in Standard Methods, 20th or 21st, Method 9221 D, is approved for this method for use in presence-absence determination under this Section. Because Standard Methods, 21st ed., Method 9221 D is the same version as

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Standard Methods Online 9221 D-99, the Board has not listed the Standard Methods Online version separately.

B) Total coliforms, membrane filtration methods:

- i) Standard total coliform membrane filter procedure: Standard Methods, 20th or 21st ed., Method 9222 B or C.

BOARD NOTE: Because Standard Methods, 20th ed., Methods 9222 B and C are the same version as Standard Methods Online 9222 B and C-97, the Board has not listed the Standard Methods Online version separately.

- ii) Membrane filtration using MI medium: USEPA Method 1604.

- iii) m-ColiBlue24® test.

BOARD NOTE: All filtration series must begin with membrane filtration equipment that has been sterilized by autoclaving. Exposure of filtration equipment to UV light is not adequate to ensure sterilization. Subsequent to the initial autoclaving, exposure of the filtration equipment to UV light may be used to sanitize the funnels between filtrations within a filtration series. Alternatively, membrane filtration equipment that is pre-sterilized by the manufacturer (i.e., disposable funnel units) may be used.

- iv) Chromocult.

BOARD NOTE: All filtration series must begin with membrane filtration equipment that has been sterilized by autoclaving. Exposure of filtration equipment to UV light is not adequate to ensure sterilization. Subsequent to the initial autoclaving, exposure of the filtration equipment to UV light may be used to sanitize the funnels between filtrations within a filtration series. Alternatively, membrane filtration equipment that is pre-sterilized by the manufacturer (i.e., disposable funnel units) may be used.

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C) Total coliforms, enzyme substrate methods:

- i) Colilert®: Standard Methods, 20th, 21st, or 22nd ed., Method 9223 B;

BOARD NOTE: Multiple-tube and multi-well enumerative formats for this method are approved for use in presence-absence determination under this Section.

- ii) Colisure®: Standard Methods, 20th, 21st, or 22nd ed., Method 9223 B;

BOARD NOTE: Multiple-tube and multi-well enumerative formats for this method are approved for use in presence-absence determination under this Section. Colisure® results may be read after an incubation time of 24 hours. Because Standard Methods, 20th ed., Method 9223 B is the same version as Standard Methods Online 9223 B-97, the Board has not listed the Standard Methods Online version separately.

- iii) E*Colite® test;

- iv) Readycult® 2007 test;

- v) Modified Colitag™ test.

D) E. coli (following lactose fermentation methods) EC-MUG medium: section 1 of Standard Methods, 20th, 21st, or 22nd ed., Method 9221 F.

E) E. coli, partition method:

- i) EC broth with MUG (EC-MUG): section 1.c(2) of Standard Methods, 20th or 21st ed., Method 9222 G; or

BOARD NOTE: The following changes must be made to the EC broth with MUG (EC-MUG) formulation:

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potassium dihydrogen phosphate (KH₂PO₄) must be 1.5 g, and 4-methylumbelliferyl-β-D-glucuronide must be 0.05 g.

- ii) NA-MUG medium: section 1.c(1) of Standard Methods, 20th or 21st ed., Method 9222 G.

F) E. coli, membrane filtration methods:

- i) Membrane filtration using MI medium: USEPA Method 1604.
- ii) m-ColiBlue24® test.

BOARD NOTE: All filtration series must begin with membrane filtration equipment that has been sterilized by autoclaving. Exposure of filtration equipment to UV light is not adequate to ensure sterilization. Subsequent to the initial autoclaving, exposure of the filtration equipment to UV light may be used to sanitize the funnels between filtrations within a filtration series. Alternatively, membrane filtration equipment that is pre-sterilized by the manufacturer (i.e., disposable funnel units) may be used.

- iii) Chromocult.

BOARD NOTE: All filtration series must begin with membrane filtration equipment that has been sterilized by autoclaving. Exposure of filtration equipment to UV light is not adequate to ensure sterilization. Subsequent to the initial autoclaving, exposure of the filtration equipment to UV light may be used to sanitize the funnels between filtrations within a filtration series. Alternatively, membrane filtration equipment that is pre-sterilized by the manufacturer (i.e., disposable funnel units) may be used.

G) E. coli, enzyme substrate methods:

- i) Colilert®: Standard Methods, 20th, 21st, or 22nd ed., Method 9223 B;

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BOARD NOTE: Multiple-tube and multi-well enumerative formats for this method are approved for use in presence-absence determination under this Section. Because Standard Methods, 20th ed., Method 9223 B is the same version as Standard Methods Online 9223 B-97, the Board has not listed the Standard Methods Online version separately.

- ii) Colisure®: Standard Methods, 20th, 21st, or 22nd ed., Method 9223 B;

BOARD NOTE: Multiple-tube and multi-well enumerative formats for this method are approved for use in presence-absence determination under this Section. Colisure® results may be read after an incubation time of 24 hours. Because Standard Methods, 20th ed., Method 9223 B is the same version as Standard Methods Online 9223 B-97, the Board has not listed the Standard Methods Online version separately.

- iii) E*Colite® test;
- iv) Readycult® 2007 test;
- v) Modified Colitag™ test.

BOARD NOTE: USEPA added of Standard Methods, 22nd ed., Methods 9221 B (sections 1 and 2) and 9223 B as approved alternative methods for total coliforms and Standard Methods, 22nd ed., Methods 9221 F (section 1) and 9223 B for as approved alternative methods for E. coli in appendix A to subpart C of 40 CFR 141 on June 21, 2013 (at 78 Fed. Reg. 37463).

- b) Laboratory certification. A supplier must have all compliance samples required by this Subpart AA analyzed by a laboratory that is certified by USEPA, the Agency, or a sister primacy state to analyze drinking water samples. The laboratory used by the supplier must be certified for each method (and associated

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contaminants) that is used for compliance monitoring analyses under this Subpart AA.

- c) This subsection (c) corresponds with 40 CFR 141.1052(c), which is a centralized listing of incorporations by reference for the purposes of subpart Y to 40 CFR 141. The Board has centrally located all incorporations by reference in Section 611.102. This statement maintains structural consistency with the federal rules.

BOARD NOTE: Derived from 40 CFR 141.852 (2013).

(Source: Added at 38 Ill. Reg. _____, effective _____)

Section 611.1053 General Monitoring Requirements for all PWSs

a) Sample siting plans.

- 1) A supplier must develop a written sample siting plan that identifies sampling sites and a sample collection schedule that are representative of water throughout the distribution system not later than March 31, 2016. These plans are subject to Agency review and revision. The supplier must collect total coliform samples according to the written sample siting plan. Monitoring required by Sections 611.1054 through 611.1058 may take place at a customer's premises, a dedicated sampling station, or another designated compliance sampling location. Routine and repeat sample sites and any sampling points necessary to meet the requirements of Subpart S of this Part must be reflected in the sampling plan.
- 2) A supplier must collect samples at regular time intervals throughout the month, except that systems that use only ground water and serve 4,900 or fewer people may collect all required samples on a single day if they are taken from different sites.
- 3) A supplier must take at least the minimum number of required samples even if the system has had an E. coli MCL violation or has exceeded the coliform treatment technique triggers in Section 611.1059(a).
- 4) A supplier may conduct more compliance monitoring than is required by this Subpart AA to investigate potential problems in the distribution system and use monitoring as a tool to assist in uncovering problems. A

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supplier may take more than the minimum number of required routine samples and must include the results in calculating whether the coliform treatment technique trigger in Section 611.1059(a)(1)(A) and (a)(1)(B) has been exceeded only if the samples are taken in accordance with the existing sample siting plan and are representative of water throughout the distribution system.

- 5) A supplier must identify repeat monitoring locations in the sample siting plan. Unless the provisions of subsections (a)(5)(A) or (a)(5)(B) are met, the supplier must collect at least one repeat sample from the sampling tap where the original total coliform-positive sample was taken, and at least one repeat sample at a tap within five service connections upstream and at least one repeat sample at a tap within five service connections downstream of the original sampling site. If a total coliform-positive sample is at the end of the distribution system, or one service connection away from the end of the distribution system, the supplier must still take all required repeat samples. However, the Agency may grant a SEP pursuant to Section 611.110 that allows an alternative sampling location in lieu of the requirement to collect at least one repeat sample upstream or downstream of the original sampling site. Except as provided for in subsection (a)(5)(B), a supplier required to conduct triggered source water monitoring pursuant to Section 611.802(a) must take ground water source samples in addition to repeat samples required under this Subpart AA.
- A) A supplier may propose repeat monitoring locations to the Agency that the supplier believes to be representative of a pathway for contamination of the distribution system. A supplier may elect to specify either alternative fixed locations or criteria for selecting repeat sampling sites on a situational basis in a standard operating procedure (SOP) in its sample siting plan. The supplier must design its SOP to focus the repeat samples at locations that best verify and determine the extent of potential contamination of the distribution system area based on specific situations. The Agency may, by a SEP issued pursuant to Section 611.110, modify the SOP or require alternative monitoring locations as the Agency determines is necessary.
- B) A GWS supplier that serves 1,000 or fewer people may propose repeat sampling locations to the Agency that differentiate potential

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source water and distribution system contamination (e.g., by sampling at entry points to the distribution system). A GWS supplier that has a single well and which is required to conduct triggered source water monitoring may, as allowed by a SEP issued pursuant to Section 611.110, take one of its repeat samples at the monitoring location required for triggered source water monitoring pursuant to Section 611.802(a). The supplier must justify an Agency determination that the sample siting plan remains representative of water quality in the distribution system. If approved by a SEP issued pursuant to Section 611.110, the supplier may use that sample result to meet the monitoring requirements in both Section 611.802(a) and this Section.

- i) If a repeat sample taken at the monitoring location required for triggered source water monitoring is E. coli-positive, the supplier has violated the E. coli MCL and must also comply with Section 611.802(a)(3). If a supplier takes more than one repeat sample at the monitoring location required for triggered source water monitoring, the supplier may reduce the number of additional source water samples required under Section 611.802(a)(3) by the number of repeat samples taken at that location that were not E. coli-positive.
- ii) If a supplier takes more than one repeat sample at the monitoring location required for triggered source water monitoring under Section 611.802(a), and more than one repeat sample is E. coli-positive, the supplier has violated the E. coli MCL and must also comply with Section 611.803(a)(1).
- iii) If all repeat samples taken at the monitoring location required for triggered source water monitoring are E. coli-negative and a repeat sample taken at a monitoring location other than the one required for triggered source water monitoring is E. coli-positive, the supplier has violated the E. coli MCL, but is not required to comply with Section 611.802(a)(3).

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- 6) The Agency may, by a SEP issued pursuant to Section 611.110, review, revise, and approve, as appropriate, repeat sampling proposed by a supplier pursuant to subsections (a)(5)(A) and (a)(5)(B) of this Section. The supplier must justify an Agency determination that the sample siting plan remains representative of the water quality in the distribution system. The Agency may determine that monitoring at the entry point to the distribution system (especially for undisinfected ground water systems) is effective to differentiate between potential source water and distribution system problems.
- b) Special purpose samples. Special purpose samples, such as those taken to determine whether disinfection practices are sufficient following pipe placement, replacement, or repair, must not be used to determine whether the coliform treatment technique trigger has been exceeded. Repeat samples taken pursuant to Section 611.1058 are not considered special purpose samples, and must be used to determine whether the coliform treatment technique trigger has been exceeded.
- c) Invalidation of total coliform samples. A total coliform-positive sample invalidated under this subsection (c) does not count toward meeting the minimum monitoring requirements of this Subpart AA.
- 1) The Agency may, by a SEP issued pursuant to Section 611.110, invalidate a total coliform-positive sample only if the conditions of subsection (c)(1)(A), (c)(1)(B), or (c)(1)(C) of this Section are met.
- A) The laboratory establishes that improper sample analysis caused the total coliform-positive result.
- B) The Agency, on the basis of the results of repeat samples collected as required under Section 611.1058(a), determines that the total coliform-positive sample resulted from a domestic or other non-distribution system plumbing problem. The Agency cannot invalidate a sample on the basis of repeat sample results unless all repeat samples collected at the same tap as the original total coliform-positive sample are also total coliform-positive, and all repeat samples collected at a location other than the original tap are total coliform-negative (e.g., a Agency cannot invalidate a total coliform-positive sample on the basis of repeat samples if all the

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repeat samples are total coliform-negative, or if the system has only one service connection).

C) The Agency has substantial grounds to believe that a total coliform-positive result is due to a circumstance or condition that does not reflect water quality in the distribution system. In this case, the system must still collect all repeat samples required under Section 611.1058(a), and use them to determine whether a coliform treatment technique trigger in Section 611.1059 has been exceeded. To invalidate a total coliform-positive sample under this subsection (c)(1), the decision and supporting rationale must be documented in writing and approved and signed by the Agency, as a SEP issued pursuant to Section 611.110. The Agency must make this document available to USEPA and the public. The written documentation must state the specific cause of the total coliform-positive sample, and what action the supplier has taken, or will take, to correct this problem. The Agency may not invalidate a total coliform-positive sample solely on the grounds that all repeat samples are total coliform-negative.

2) A laboratory must invalidate a total coliform sample (unless total coliforms are detected) if the sample produces a turbid culture in the absence of gas production using an analytical method where gas formation is examined (e.g., the multiple-tube fermentation technique), produces a turbid culture in the absence of an acid reaction in the presence-absence (P-A) coliform test, or exhibits confluent growth or produces colonies too numerous to count with an analytical method using a membrane filter (e.g., membrane filter technique). If a laboratory invalidates a sample because of such interference, the supplier must collect another sample from the same location as the original sample within 24 hours of being notified of the interference problem, and have it analyzed for the presence of total coliforms. The supplier must continue to re-sample within 24 hours and have the samples analyzed until it obtains a valid result. The Agency may, by a SEP issued pursuant to Section 611.110, waive the 24-hour time limit on a case-by-case basis. Alternatively, the Agency or any interested person may file a petition for rulemaking, pursuant to Sections 27 and 28 of the Act [415 ILCS 5/27 and 28], to establish criteria for waiving the 24-hour sampling time limit to use in lieu of case-by-case extensions.

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(Source: Added at 38 Ill. Reg. _____, effective _____)

Section 611.1054 Routine Monitoring Requirements for Non-CWSs that Serve 1,000 or Fewer People Using Only Groundwater

- a) General.
- 1) This Section applies to non-CWS suppliers that use only groundwater (except groundwater under the direct influence of surface water, as defined in Section 611.102) and that serve 1,000 or fewer people.
 - 2) Following any total coliform-positive sample taken pursuant to this Section, a supplier must comply with the repeat monitoring requirements and E. coli analytical requirements in Section 611.1058.
 - 3) Once all monitoring required by this Section and Section 611.1058 for a calendar month has been completed, a supplier must determine whether any coliform treatment technique triggers specified in Section 611.1059 have been exceeded. If any trigger has been exceeded, the supplier must complete assessments as required by Section 611.1059.
 - 4) For the purpose of determining eligibility for remaining on or qualifying for quarterly monitoring under the provisions of subsections (f)(4) and (g)(2), respectively, of this Section for transient non-CWS suppliers, the Agency may elect to not count monitoring violations under Section 611.1060(c)(1) if the missed sample is collected no later than the end of the monitoring period following the monitoring period in which the sample was missed. The supplier must collect the make-up sample in a different week than the routine sample for that monitoring period and should collect the sample as soon as possible during the monitoring period. The Agency may not use this provision under subsection (h) of this Section. This authority does not affect the provisions of Sections 611.1060(c)(1) and 611.1061(a)(4) of this Part.
- b) Monitoring frequency for total coliforms. A supplier must monitor each calendar quarter that the supplier provides water to the public, except for a seasonal system supplier or as provided under subsections (c) through (h) and (j) of this Section. A

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seasonal system supplier must meet the monitoring requirements of subsection (i) of this Section.

c) Transition to this Subpart AA.

1) A supplier, including a seasonal system supplier, must continue to monitor according to the total coliform monitoring schedules under Sections 611.521 through 611.527 that were in effect on March 31, 2016, unless any of the conditions for increased monitoring in subsection (f) of this Section are triggered on or after April 1, 2016, or unless otherwise directed by the Agency.

2) Beginning April 1, 2016, the Agency must perform a special monitoring evaluation during each sanitary survey to review the status of the supplier's system, including the distribution system, to determine whether the supplier is on an appropriate monitoring schedule. After the Agency has performed the special monitoring evaluation during each sanitary survey, the Agency may modify the supplier's monitoring schedule, as the Agency determines is necessary, or the Agency may allow the supplier to stay on its existing monitoring schedule, consistent with the provisions of this Section. The Agency may not allow a supplier to begin less frequent monitoring under the special monitoring evaluation unless the supplier has already met the applicable criteria for less frequent monitoring in this Section. For a seasonal system supplier on quarterly or annual monitoring, this evaluation must include review of the approved sample siting plan, which must designate the time periods for monitoring based on site-specific considerations (e.g., during periods of highest demand or highest vulnerability to contamination). The seasonal system supplier must collect compliance samples during these time periods.

d) Annual site visits. Beginning no later than calendar year 2017, a supplier on annual monitoring, including a seasonal system supplier, must have an initial and recurring annual site visit by the Agency that is equivalent to a Level 2 assessment or an annual voluntary Level 2 assessment that meets the criteria in Section 611.1059(b) to remain on annual monitoring. The periodic required sanitary survey may be used to meet the requirement for an annual site visit for the year in which the sanitary survey was completed.

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- e) Criteria for annual monitoring. Beginning April 1, 2016, the Agency may, by a SEP issued pursuant to Section 611.110, reduce the monitoring frequency for a well-operated GWS supplier from quarterly routine monitoring to no less than annual monitoring, if the supplier demonstrates that it meets the criteria for reduced monitoring in subsections (e)(1) through (e)(3) of this Section, except for a supplier that has been on increased monitoring under the provisions of subsection (f) of this Section. A supplier on increased monitoring under subsection (f) of this Section must meet the provisions of subsection (g) of this Section to go to quarterly monitoring and must meet the provisions of subsection (h) of this Section to go to annual monitoring.
- 1) The supplier's system has a clean compliance history for a minimum of 12 months;
 - 2) The most recent sanitary survey shows that the supplier's system is free of sanitary defects or has corrected all identified sanitary defects, has a protected water source, and meets Agency-approved construction standards; and
 - 3) The Agency has conducted an annual site visit within the last 12 months, and the supplier has corrected all identified sanitary defects. The supplier may substitute a Level 2 assessment that meets the criteria in Section 611.1059(b) for the Agency annual site visit.
- f) Increased monitoring requirements for suppliers on quarterly or annual monitoring. A supplier on quarterly or annual monitoring that experiences any of the events identified in subsections (f)(1) through (f)(4) of this Section must begin monthly monitoring the month following the event. A supplier on annual monitoring that experiences the event identified in subsections (f)(5) of this Section must begin quarterly monitoring the quarter following the event. The supplier must continue monthly or quarterly monitoring until the requirements in subsection (g) of this Section for quarterly monitoring or subsection (h) of this Section for annual monitoring are met. A supplier on monthly monitoring for reasons other than those identified in subsections (f)(1) through (f)(4) of this Section is not considered to be on increased monitoring for the purposes of subsections (g) and (h) of this Section.

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- 1) The supplier's system triggers a Level 2 assessment or two Level 1 assessments under the provisions of Section 611.1059 in a rolling 12-month period.
 - 2) The supplier's system has an E. coli MCL violation.
 - 3) The supplier's system has a coliform treatment technique violation.
 - 4) The supplier's system has two Subpart AA monitoring violations or one Subpart AA monitoring violation and one Level 1 assessment under the provisions of Section 611.1059 in a rolling 12-month period for a system on quarterly monitoring.
 - 5) The supplier's system has one Subpart AA monitoring violation for a system on annual monitoring.
- g) Requirements for returning to quarterly monitoring. The Agency may, by a SEP issued pursuant to Section 611.110, reduce the monitoring frequency for a supplier on monthly monitoring triggered under subsection (f) of this Section to quarterly monitoring if the supplier's system meets the criteria in subsections (g)(1) and (g)(2) of this Section.
- 1) Within the last 12 months, the supplier must have a completed sanitary survey or a site visit of its system by the Agency or a voluntary level 2 assessment of its system by a party approved by the Agency, the supplier's system must be free of sanitary defects, and the supplier's system must have a protected water source; and
 - 2) The supplier's system must have a clean compliance history for a minimum of 12 months.
- h) Requirements for a supplier on increased monitoring to qualify for annual monitoring. The Agency may, by a SEP issued pursuant to Section 611.110, reduce the monitoring frequency for a supplier on increased monitoring under subsection (f) of this Section if the supplier's system meets the criteria in subsection (g) of this Section and the criteria in subsections (h)(1) and (h)(2) of this Section.

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- 1) An annual site visit by the Agency and correction of all identified sanitary defects. The supplier may substitute a voluntary level 2 assessment by a party approved by the Agency for the Agency annual site visit in any given year.
- 2) The supplier must have in place or adopt one or more of the following additional enhancements to the water system barriers to contamination:
 - A) Cross connection control, as approved by the Agency.
 - B) An operator certified by an appropriate Agency certification program or regular visits by a circuit rider certified by an appropriate Agency certification program.
 - C) Continuous disinfection entering the distribution system and a residual in the distribution system in accordance with criteria specified by the Agency.
 - D) Demonstration of maintenance of at least a four-log removal or inactivation of viruses as provided for under Section 141.403(b)(3).
 - E) Other equivalent enhancements to water system barriers as approved by the State.
- i) Seasonal systems.
 - 1) Beginning April 1, 2016, all seasonal system suppliers must demonstrate completion of an Agency-approved start-up procedure, which may include a requirement for startup sampling prior to serving water to the public.
 - 2) A seasonal system supplier must monitor every month that it is in operation unless it meets the criteria in subsections (i)(2)(i) through (iii) of this Section to be eligible for monitoring less frequently than monthly beginning April 1, 2016, except as provided under subsection (c) of this Section.
 - A) Seasonal a system supplier monitoring less frequently than monthly must have an approved sample siting plan that designates

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- the time period for monitoring based on site-specific considerations (e.g., during periods of highest demand or highest vulnerability to contamination). A seasonal system supplier must collect compliance samples during this time period.
- B) To be eligible for quarterly monitoring, the supplier must meet the criteria in subsection (g) of this Section.
- C) To be eligible for annual monitoring, the supplier must meet the criteria under subsection (h) of this Section.
- 3) The Agency may, by a SEP issued pursuant to Section 611.110, exempt any seasonal system supplier from some or all of the requirements for seasonal system suppliers if the entire distribution system remains pressurized during the entire period that the supplier's system is not operating, except that a supplier that monitors less frequently than monthly must still monitor during the vulnerable period designated by the Agency.
- j) Additional routine monitoring the month following a total coliform-positive sample. A supplier that collects samples on a quarterly or annual frequency must conduct additional routine monitoring the month following one or more total coliform-positive samples (with or without a Level 1 treatment technique trigger). The supplier must collect at least three routine samples during the next month, except that the Agency may, by a SEP issued pursuant to Section 611.110, waive this requirement if the conditions of subsection (j)(1), (j)(2), or (j)(3) of this Section are met. The supplier may either collect samples at regular time intervals throughout the month or may collect all required routine samples on a single day if samples are taken from different sites. The supplier must use the results of additional routine samples in coliform treatment technique trigger calculations under Section 611.1059(a).
- 1) The Agency may, by a SEP issued pursuant to Section 611.110, waive the requirement to collect three routine samples the next month in which the supplier provides water to the public if the Agency, or an agent approved by the Agency, performs a site visit before the end of the next month in which the supplier's system provides water to the public. Although a sanitary survey need not be performed, the site visit must be sufficiently detailed to allow the Agency to determine whether additional monitoring

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or any corrective action is needed. The Agency cannot approve an employee of the supplier to perform this site visit, even if the employee is an agent approved by the Agency to perform sanitary surveys.

- 2) The Agency may, by a SEP issued pursuant to Section 611.110, waive the requirement to collect three routine samples the next month in which the supplier provides water to the public if the Agency has determined why the sample was total coliform-positive and has established that the supplier has corrected the problem or will correct the problem before the end of the next month in which the supplier's system serves water to the public. In this case, the Agency must document this decision to waive the following month's additional monitoring requirement in writing, have it approved and signed by the supervisor of the Agency official who recommends such a decision, and make this document available to USEPA and public. The written documentation must describe the specific cause of the total coliform-positive sample and what action the supplier has taken or will take to correct this problem.
- 3) The Agency may not waive the requirement to collect three additional routine samples the next month in which the supplier's system provides water to the public solely on the grounds that all repeat samples are total coliform-negative. If the Agency determines that the supplier has corrected the contamination problem before the supplier takes the set of repeat samples required in Section 611.1058, and all repeat samples were total coliform-negative, the Agency may, by a SEP issued pursuant to Section 611.110, waive the requirement for additional routine monitoring the next month.

BOARD NOTE: Derived from 40 CFR 141.854 (2013).

(Source: Added at 38 Ill. Reg. _____, effective _____)

Section 611.1055 Routine Monitoring Requirements for CWSs that Serve 1,000 or Fewer People Using Only Groundwater

- a) General.

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- 1) This Section applies to CWS suppliers that use only ground water (except ground water under the direct influence of surface water, as defined in Section 611.102) and which serve 1,000 or fewer people.
 - 2) Following any total coliform-positive sample taken under the provisions of this Section, the supplier must comply with the repeat monitoring requirements and E. coli analytical requirements in Section 611.1058.
 - 3) Once all monitoring required by this Section and Section 611.1058 for a calendar month has been completed, the supplier must determine whether any coliform treatment technique triggers specified in Section 611.1059 have been exceeded. If any trigger has been exceeded, the supplier must complete assessments as required by Section 611.1059.
- b) Monitoring frequency for total coliforms. The monitoring frequency for total coliforms is one sample per month, except as provided for under subsections (c) through (f) of this Section.
- c) Transition to Subpart AA.
- 1) A supplier must continue to monitor according to the total coliform monitoring schedules under Section 611.521 through 611.527 that were in effect on March 31, 2016, unless any of the conditions in subsection (e) of this Section are triggered on or after April 1, 2016, or unless otherwise directed by the Agency, by a SEP issued pursuant to Section 611.110.
 - 2) Beginning April 1, 2016, the Agency must perform a special monitoring evaluation during each sanitary survey to review the status of the supplier's system, including the distribution system, to determine whether the system is on an appropriate monitoring schedule. After the Agency has performed the special monitoring evaluation during each sanitary survey, the Agency may, by a SEP issued pursuant to Section 611.110, modify the supplier's monitoring schedule, as necessary. Alternatively, the Agency may allow the supplier to stay on its existing monitoring schedule, consistent with the provisions of this Section. The Agency may not allow a supplier to begin less frequent monitoring under the special monitoring evaluation unless the supplier has already met the applicable criteria for less frequent monitoring in this Section.

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d) Criteria for reduced monitoring.

- 1) The Agency may, by a SEP issued pursuant to Section 611.110, reduce the monitoring frequency from monthly monitoring to no less than quarterly monitoring if the supplier is in compliance with Agency-certified operator provisions and demonstrates that it meets the criteria in subsections (d)(1)(A) through (d)(1)(C) of this Section. A supplier that loses its certified operator must return to monthly monitoring the month following that loss.
 - A) The supplier has a clean compliance history for a minimum of 12 months.
 - B) The most recent sanitary survey shows the supplier is free of sanitary defects (or has an approved plan and schedule to correct them and is in compliance with the plan and the schedule), has a protected water source, and meets Agency-approved construction standards.
 - C) The supplier meets at least one of the following criteria:
 - i) An annual site visit by the Agency that is equivalent to a level 2 assessment or an annual level 2 assessment by a party approved by the Agency and correction of all identified sanitary defects (or an approved plan and schedule to correct them and is in compliance with the plan and schedule).
 - ii) Cross connection control, as approved by the Agency.
 - iii) Continuous disinfection entering the distribution system and a residual in the distribution system in accordance with criteria specified by the Agency.
 - iv) Demonstration of maintenance of at least a 4-log removal or inactivation of viruses as provided for under Section 611.803(b)(3).

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- v) Other equivalent enhancements to water system barriers as approved by the Agency.
- e) Return to routine monthly monitoring requirements. A supplier on quarterly monitoring that experience any of the events in subsections (e)(1) through (e)(4) of this Section must begin monthly monitoring the month following the event. The supplier must continue monthly monitoring until it meets the reduced monitoring requirements in subsection (d) of this Section.
- 1) The supplier triggers a level 2 assessment or two level 1 assessments in a rolling 12-month period.
 - 2) The supplier has an E. coli MCL violation.
 - 3) The supplier has a coliform treatment technique violation.
 - 4) The supplier has two Subpart AA monitoring violations in a rolling 12-month period.
- f) Additional routine monitoring the month following a total coliform-positive sample. A supplier collecting samples on a quarterly frequency must conduct additional routine monitoring the month following one or more total coliform-positive samples (with or without a level 1 treatment technique trigger). A supplier must collect at least three routine samples during the next month, except that the Agency may, by a SEP issued pursuant to Section 611.110, waive this requirement if the conditions of subsection (f)(1), (f)(2), or (f)(3) of this Section are met. A supplier may either collect samples at regular time intervals throughout the month or may collect all required routine samples on a single day if samples are taken from different sites. A supplier must use the results of additional routine samples in coliform treatment technique trigger calculations.
- 1) The Agency may, by a SEP issued pursuant to Section 611.110, waive the requirement to collect three routine samples the next month in which the supplier's system provides water to the public if the Agency, or an agent approved by the Agency, performs a site visit before the end of the next month in which the supplier's system provides water to the public. Although a sanitary survey need not be performed, the site visit must be sufficiently detailed to allow the Agency to determine whether additional monitoring or any corrective action is needed. The Agency cannot

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approve an employee of the supplier to perform this site visit, even if the employee is an agent approved by the Agency to perform sanitary surveys.

- 2) The Agency may, by a SEP issued pursuant to Section 611.110, waive the requirement to collect three routine samples the next month in which the supplier's system provides water to the public if the Agency has determined why the sample was total coliform-positive and has established that the supplier has corrected the problem or will correct the problem before the end of the next month in which the supplier's system serves water to the public. In this case, the Agency must document this decision to waive the following month's additional monitoring requirement in writing, have it approved and signed by the supervisor of the Agency official who recommends such a decision, and make this document available to USEPA and the public. The written documentation must describe the specific cause of the total coliform-positive sample and what action the supplier has taken or will take to correct this problem.
- 3) The Agency may not waive the requirement to collect three additional routine samples the next month in which the supplier's system provides water to the public solely on the grounds that all repeat samples are total coliform-negative. If the Agency determines that the supplier has corrected the contamination problem before the supplier takes the set of repeat samples required in Section 611.1058, and all repeat samples were total coliform-negative, the Agency may, by a SEP issued pursuant to Section 611.110, waive the requirement for additional routine monitoring the next month.

BOARD NOTE: Derived from 40 CFR 141.855 (2013).

(Source: Added at 38 Ill. Reg. _____, effective _____)

Section 611.1056 Routine Monitoring Requirements for Subpart B Systems that Serve 1,000 or Fewer People

- a) General.
 - 1) The provisions of this Section apply to a Subpart B system supplier that serves 1,000 or fewer people.

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- 2) Following any total coliform-positive sample taken under the provisions of this Section, a supplier must comply with the repeat monitoring requirements and E. coli analytical requirements in Section 611.1058.
- 3) Once all monitoring required by this Section and Section 611.1058 for a calendar month has been completed, a supplier must determine whether any coliform treatment technique triggers specified in Section 611.1059 have been exceeded. If any trigger has been exceeded, the supplier must complete assessments as required by Section 611.1059.
- 4) Seasonal system suppliers.
 - A) Beginning April 1, 2016, all seasonal system suppliers must demonstrate completion of an Agency-approved start-up procedure, which may include a requirement for start-up sampling prior to serving water to the public.
 - B) The Agency may, by a SEP issued pursuant to Section 611.110, exempt any seasonal system supplier from some or all of the requirements for seasonal system suppliers if the supplier's entire distribution system remains pressurized during the entire period that the supplier's system is not operating.
- b) Routine monitoring frequency for total coliforms. A Subpart B system supplier (including a consecutive system supplier) must monitor monthly. A supplier may not reduce monitoring.
- c) Unfiltered Subpart B system suppliers. A Subpart B system supplier that does not practice filtration in compliance with Subparts B, R, X, and Z of this Part must collect at least one total coliform sample near the first service connection each day that the turbidity level of the source water, measured as specified in Section 611.532(b), exceeds 1 NTU. When one or more turbidity measurements in any day exceed 1 NTU, the supplier must collect this coliform sample within 24 hours of the first exceedance, unless the Agency determines that the supplier, for logistical reasons outside the supplier's control, cannot have the sample analyzed within 30 hours of collection, and the Agency identifies an alternative sample collection schedule. Sample results from the coliform monitoring required by this subsection (c) must be included in determining whether the coliform treatment technique trigger in Section 611.1059 has been exceeded.

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BOARD NOTE: Derived from 40 CFR 141.856 (2013).

(Source: Added at 37 Ill. Reg. _____, effective _____)

Section 611.1057 Routine Monitoring Requirements for PWSs that Serve More Than 1,000 People

- a) General.
- 1) The provisions of this Section apply to public water systems serving more than 1,000 persons.
 - 2) Following any total coliform-positive sample taken under the provisions of this Section, the supplier must comply with the repeat monitoring requirements and E. coli analytical requirements in Section 611.1058.
 - 3) Once all monitoring required by this Section and Section 611.1058 for a calendar month has been completed, a supplier must determine whether any coliform treatment technique triggers specified in Section 611.1059 have been exceeded. If any trigger has been exceeded, the supplier must complete assessments as required by Section 611.1059.
 - 4) Seasonal systems.
 - A) Beginning April 1, 2016, a seasonal system supplier must demonstrate completion of an Agency-approved start-up procedure, which may include a requirement for start-up sampling prior to serving water to the public.
 - B) The Agency may, by a SEP issued pursuant to Section 611.110, exempt any seasonal system supplier from some or all of the requirements for seasonal system suppliers if the supplier's entire distribution system remains pressurized during the entire period that the supplier's system is not operating.
- b) Monitoring frequency for total coliforms. The monitoring frequency for total coliforms is based on the population served by the supplier's system, as follows:

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TOTAL COLIFORM MONITORING FREQUENCY FOR PUBLIC
WATER SYSTEMS SERVING MORE THAN 1,000 PEOPLE

<u>Population served</u>	<u>Minimum number of samples per month</u>
<u>1,001 to 2,500</u>	<u>2</u>
<u>2,501 to 3,300</u>	<u>3</u>
<u>3,301 to 4,100</u>	<u>4</u>
<u>4,101 to 4,900</u>	<u>5</u>
<u>4,901 to 5,800</u>	<u>6</u>
<u>5,801 to 6,700</u>	<u>7</u>
<u>6,701 to 7,600</u>	<u>8</u>
<u>7,601 to 8,500</u>	<u>9</u>
<u>8,501 to 12,900</u>	<u>10</u>
<u>12,901 to 17,200</u>	<u>15</u>
<u>17,201 to 21,500</u>	<u>20</u>
<u>21,501 to 25,000</u>	<u>25</u>
<u>25,001 to 33,000</u>	<u>30</u>
<u>33,001 to 41,000</u>	<u>40</u>
<u>41,001 to 50,000</u>	<u>50</u>
<u>50,001 to 59,000</u>	<u>60</u>
<u>59,001 to 70,000</u>	<u>70</u>
<u>70,001 to 83,000</u>	<u>80</u>

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<u>83,001 to 96,000</u>	<u>90</u>
<u>96,001 to 130,000</u>	<u>100</u>
<u>130,001 to 220,000</u>	<u>120</u>
<u>220,001 to 320,000</u>	<u>150</u>
<u>320,001 to 450,000</u>	<u>180</u>
<u>450,001 to 600,000</u>	<u>210</u>
<u>600,001 to 780,000</u>	<u>240</u>
<u>780,001 to 970,000</u>	<u>270</u>
<u>970,001 to 1,230,000</u>	<u>300</u>
<u>1,230,001 to 1,520,000</u>	<u>330</u>
<u>1,520,001 to 1,850,000</u>	<u>360</u>
<u>1,850,001 to 2,270,000</u>	<u>390</u>
<u>2,270,001 to 3,020,000</u>	<u>420</u>
<u>3,020,001 to 3,960,000</u>	<u>450</u>
<u>3,960,001 or more</u>	<u>480</u>

- c) Unfiltered Subpart B systems. A Subpart B system supplier that does not practice filtration in compliance with Subparts B, R, X, and Z of this Part must collect at least one total coliform sample near the first service connection each day that the turbidity level of the source water, measured as specified in Section 611.532(b), exceeds 1 NTU. When one or more turbidity measurements in any day exceed 1 NTU, the supplier must collect this coliform sample within 24 hours of the first exceedance, unless the Agency determines that the supplier, for logistical reasons outside the supplier's control, cannot have the sample analyzed within 30 hours of collection, and the Agency identifies an alternative sample collection schedule. Sample results from this coliform monitoring must be included in determining

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whether the coliform treatment technique trigger in Section 611.1059 has been exceeded.

- d) Reduced monitoring. A supplier may not reduce monitoring, except for a non-CWS supplier that uses only ground water (and not ground water under the direct influence of surface water) and which serves 1,000 or fewer people in some months and more than 1,000 persons in other months. In months when more than 1,000 persons are served, the supplier must monitor at the frequency specified in subsection (a) of this Section. In months when the supplier serves 1,000 or fewer people, the Agency may, by a SEP issued pursuant to Section 611.110, reduce the monitoring frequency, in writing, to a frequency allowed under Section 611.1054 for a similarly situated supplier that always serves 1,000 or fewer people, taking into account the provisions in Section 611.1054(e) through (g).

BOARD NOTE: Derived from 40 CFR 141.857 (2013).

(Source: Added at 38 Ill. Reg. _____, effective _____)

Section 611.1058 Repeat Monitoring and E. coli Requirements

- a) Repeat monitoring.
- 1) If a sample taken under Sections 611.1054 through 611.1057 is total coliform-positive, the supplier must collect a set of repeat samples within 24 hours of being notified of the positive result. The supplier must collect no fewer than three repeat samples for each total coliform-positive sample found. The Agency may, by a SEP issued pursuant to Section 611.110, extend the 24-hour limit on a case-by-case basis if the supplier has a logistical problem in collecting the repeat samples within 24 hours that is beyond its control. Alternatively, the Agency may implement criteria for the supplier to use in lieu of case-by-case extensions. In the case of an extension, the Agency must specify how much time the supplier has to collect the repeat samples. The Agency cannot waive the requirement for a supplier to collect repeat samples in subsections (a)(1) through (a)(3) of this Section.
 - 2) The supplier must collect all repeat samples on the same day, except that the Agency may, by a SEP issued pursuant to Section 611.110, allow a supplier with a single service connection to collect the required set of

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repeat samples over a three-day period or to collect a larger volume repeat samples in one or more sample containers of any size, as long as the total volume collected is at least 300 mL.

- 3) The supplier must collect an additional set of repeat samples in the manner specified in subsections (a)(1) through (a)(3) of this Section if one or more repeat samples in the current set of repeat samples is total coliform-positive. The supplier must collect the additional set of repeat samples within 24 hours of being notified of the positive result, unless the Agency extends the limit as provided in subsection (a)(1) of this Section. The supplier must continue to collect additional sets of repeat samples until either total coliforms are not detected in one complete set of repeat samples or the supplier determines that a coliform treatment technique trigger specified in Section 611.1059(a) has been exceeded as a result of a repeat sample being total coliform-positive and notifies the Agency. If a trigger identified in Section 611.1059 is exceeded as a result of a routine sample being total coliform-positive, the supplier is required to conduct only one round of repeat monitoring for each total coliform-positive routine sample.
 - 4) After a supplier collects a routine sample and before it learns the results of the analysis of that sample, if the supplier collects another routine sample from within five adjacent service connections of the initial sample, and the initial sample, after analysis, is found to contain total coliforms, then the system may count the subsequent sample as a repeat sample instead of as a routine sample.
 - 5) Results of all routine and repeat samples taken under Sections 611.1054 through 611.1058 not invalidated by the Agency must be used to determine whether a coliform treatment technique trigger specified in Section 611.1059 has been exceeded.
- b) Escherichia coli (E. coli) testing.
- 1) If any routine or repeat sample is total coliform-positive, the supplier must analyze that total coliform-positive culture medium to determine if E. coli are present. If E. coli are present, the supplier must notify the Agency by the end of the day when the supplier is notified of the test result, unless the supplier is notified of the result after the Agency office is closed and the

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Agency does not have either an after-hours phone line or an alternative notification procedure, in which case the supplier must notify the Agency before the end of the next business day.

- 2) The Agency has the discretion to allow a supplier, on a case-by-case basis, to forego E. coli testing on a total coliform-positive sample if that supplier assumes that the total coliform-positive sample is E. coli-positive. Accordingly, the supplier must notify the Agency as specified in subsection (b)(1) of this Section and the provisions of Section 141.63(c) apply.

BOARD NOTE: Derived from 40 CFR 141.858 (2013).

(Source: Added at 38 Ill. Reg. _____, effective _____)

Section 611.1059 Coliform Treatment Technique Triggers and Assessment Requirements for Protection Against Potential Fecal Contamination

- a) Treatment technique triggers. A supplier must conduct assessments in accordance with subsection (b) of this Section after exceeding treatment technique triggers in subsections (a)(1) and (a)(2) of this Section.
- 1) Level 1 treatment technique triggers.
- A) For a supplier taking 40 or more samples per month, the supplier exceeds 5.0% total coliform-positive samples for the month.
- B) For a supplier taking fewer than 40 samples per month, the supplier has two or more total coliform-positive samples in the same month.
- C) The supplier fails to take every required repeat sample after any single total coliform-positive sample.
- 2) Level 2 treatment technique triggers.
- A) An E. coli MCL violation, as specified in Section 611.1060(a).

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- B) A second level 1 trigger as defined in subsection (a)(1) of this Section, within a rolling 12-month period, unless the Agency, by a SEP issued pursuant to Section 611.110, has determined a likely reason that the samples that caused the first level 1 treatment technique trigger were total coliform-positive and has established that the supplier has corrected the problem.
- C) For a supplier with approved annual monitoring, a level 1 trigger in two consecutive years.
- b) Requirements for assessments.
- 1) A supplier must ensure that level 1 and 2 assessments are conducted in order to identify the possible presence of sanitary defects and defects in distribution system coliform monitoring practices. Level 2 assessments must be conducted by parties approved by the Agency.
- 2) When conducting assessments, the supplier must ensure that the assessor evaluates minimum elements that include review and identification of inadequacies in sample sites; sampling protocol; sample processing; atypical events that could affect distributed water quality or indicate that distributed water quality was impaired; changes in distribution system maintenance and operation that could affect distributed water quality (including water storage); source and treatment considerations that bear on distributed water quality, where appropriate (e.g., small ground water systems); and existing water quality monitoring data. The supplier must conduct the assessment consistent with any Agency directives that tailor specific assessment elements with respect to the size and type of the system and the size, type, and characteristics of the distribution system.
- 3) Level 1 assessments. A supplier must conduct a level 1 assessment consistent with Agency requirements if the supplier exceeds one of the treatment technique triggers in subsection (a)(1) of this Section.
- A) The supplier must complete a level 1 assessment as soon as practical after any trigger in subsection (a)(1) of this Section. In the completed assessment form, the supplier must describe sanitary defects detected, corrective actions completed, and a proposed timetable for any corrective actions not already completed. The

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- assessment form may also note that no sanitary defects were identified. The supplier must submit the completed level 1 assessment form to the Agency within 30 days after the supplier learns that it has exceeded a trigger.
- B) If the Agency reviews the completed level 1 assessment and determines that the assessment is not sufficient (including any proposed timetable for any corrective actions not already completed), the Agency must consult with the supplier. If the Agency, by a SEP issued pursuant to Section 611.110, requires revisions after consultation, the supplier must submit a revised assessment form to the Agency on an agreed-upon schedule not to exceed 30 days from the date of the consultation.
- C) Upon completion and submission of the assessment form by the supplier, the Agency must determine if the supplier has identified a likely cause for the level 1 trigger and, if so, establish that the supplier has corrected the problem, or has included a schedule acceptable to the Agency for correcting the problem.
- 4) Level 2 assessments. A supplier must ensure that a level 2 assessment consistent with Agency requirements is conducted if the supplier exceeds one of the treatment technique triggers in subsection (a)(2) of this Section. The supplier must comply with any expedited actions or additional actions required by the Agency, by a SEP issued pursuant to Section 611.110, in the case of an E. coli MCL violation.
- A) The supplier must ensure that a level 2 assessment is completed by the Agency or by a party approved by the Agency as soon as practical after any trigger in subsection (a)(2) of this Section. The supplier must submit a completed level 2 assessment form to the Agency within 30 days after the supplier learns that it has exceeded a trigger. The assessment form must describe sanitary defects detected, corrective actions completed, and a proposed timetable for any corrective actions not already completed. The assessment form may also note that no sanitary defects were identified.

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- B) The supplier may conduct level 2 assessments if the supplier has staff or management with the certification or qualifications specified by the Agency unless otherwise directed by the Agency, by a SEP issued pursuant to Section 611.110.
- C) If the Agency reviews the completed level 2 assessment and determines that the assessment is not sufficient (including any proposed timetable for any corrective actions not already completed), the Agency must consult with the system. If the Agency requires revisions after consultation, the supplier must submit a revised assessment form to the Agency on an agreed-upon schedule not to exceed 30 days.
- D) Upon completion and submission of the assessment form by the supplier, the Agency must determine if the system has identified a likely cause for the level 2 trigger and determine whether the supplier has corrected the problem, or has included a schedule acceptable to the Agency for correcting the problem.
- c) Corrective action. A supplier must correct sanitary defects found through either level 1 or 2 assessments conducted under subsection (b) of this Section. For corrections not completed by the time of submission of the assessment form, the supplier must complete the corrective actions in compliance with a timetable approved by the Agency, by a SEP issued pursuant to Section 611.110, in consultation with the supplier. The supplier must notify the Agency when each scheduled corrective action is completed.
- d) Consultation. At any time during the assessment or corrective action phase, either the water supplier or the Agency may request a consultation with the other party to determine the appropriate actions to be taken. The supplier may consult with the Agency on all relevant information that may impact on its ability to comply with a requirement of this Subpart AA, including the method of accomplishment, an appropriate timeframe, and other relevant information.

BOARD NOTE: Derived from 40 CFR 141.859 (2013).

(Source: Added at 38 Ill. Reg. _____, effective _____)

Section 611.1060 Violations

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- a) E. coli MCL Violation. A supplier is in violation of the MCL for E. coli when any of the conditions identified in subsections (a)(1) through (a)(4) of this Section occur.
- 1) The supplier has an E. coli-positive repeat sample following a total coliform-positive routine sample.
 - 2) The supplier has a total coliform-positive repeat sample following an E. coli-positive routine sample.
 - 3) The supplier fails to take all required repeat samples following an E. coli-positive routine sample.
 - 4) The supplier fails to test for E. coli when any repeat sample tests positive for total coliform.
- b) Treatment technique violations.
- 1) A treatment technique violation occurs when a supplier exceeds a treatment technique trigger specified in Section 611.1059(a) and then fails to conduct the required assessment or corrective actions within the timeframe specified in Section 611.1059(b) and (c).
 - 2) A treatment technique violation occurs when a seasonal system supplier fails to complete an Agency-approved start-up procedure prior to serving water to the public.
- c) Monitoring violations.
- 1) Failure to take every required routine or additional routine sample in a compliance period is a monitoring violation.
 - 2) Failure to analyze for E. coli following a total coliform-positive routine sample is a monitoring violation.
- d) Reporting violations.

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- 1) Failure to submit a monitoring report or completed assessment form after a supplier properly conducts monitoring or assessment in a timely manner is a reporting violation.
- 2) Failure to notify the Agency following an E. coli-positive sample as required by Section 611.1058(b)(1) in a timely manner is a reporting violation.
- 3) Failure to submit certification of completion of Agency-approved start-up procedure by a seasonal system is a reporting violation.

BOARD NOTE: Derived from 40 CFR 141.860 (2013).

(Source: Added at 38 Ill. Reg. _____, effective _____)

Section 611.1061 Reporting and Recordkeeping

- a) Reporting.
 - 1) E. coli.
 - A) A supplier must notify the Agency by the end of the day when the system learns of an E. coli MCL violation, unless the supplier learns of the violation after the Agency office is closed and the Agency does not have either an after-hours phone line or an alternative notification procedure, in which case the supplier must notify the Agency before the end of the next business day, and the supplier notifies the public in accordance with Subpart V of this Part.
 - B) A supplier must notify the Agency by the end of the day when the supplier is notified of an E. coli-positive routine sample, unless the supplier is notified of the result after the Agency office is closed and the Agency does not have either an after-hours phone line or an alternative notification procedure, in which case the supplier must notify the Agency before the end of the next business day.
 - 2) A supplier that has violated the treatment technique for coliforms in Section 611.1059 must report the violation to the Agency no later than the

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end of the next business day after it learns of the violation, and notify the public in accordance with Subpart V of this Part.

- 3) A supplier required to conduct an assessment under the provisions of Section 611.1059 must submit the assessment report within 30 days. The supplier must notify the Agency in accordance with Section 611.1059(c) when each scheduled corrective action is completed for corrections not completed by the time of submission of the assessment form.
- 4) A supplier that has failed to comply with a coliform monitoring requirement must report the monitoring violation to the Agency within 10 days after the supplier discovers the violation, and notify the public in accordance with Subpart V of this Part.
- 5) A seasonal system supplier must certify, prior to serving water to the public, that it has complied with the Agency-approved start-up procedure.

b) Recordkeeping.

- 1) The supplier must maintain any assessment form, regardless of who conducts the assessment, and documentation of corrective actions completed as a result of those assessments, or other available summary documentation of the sanitary defects and corrective actions taken under Section 611.1058 for Agency review. This record must be maintained by the supplier for a period not less than five years after completion of the assessment or corrective action.
- 2) The supplier must maintain a record of any repeat sample taken that meets Agency criteria for an extension of the 24-hour period for collecting repeat samples as provided for under Section 611.1058(a)(1).

BOARD NOTE: Derived from 40 CFR 141.861 (2013).

(Source: Added at 38 Ill. Reg. _____, effective _____)

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Section 611.APPENDIX A Regulated Contaminants

Microbiological contaminants.

Contaminant (units): Total Coliform Bacteria, until March 31, 2016

Traditional MCL in mg/l: MCL: (a supplier that collects 40 or more samples/month) five percent or fewer of monthly samples are positive; (systems that collect fewer than 40 samples/month) one or fewer positive monthly samples.

To convert for CCR, multiply by: –

MCL in CCR units: MCL: (a supplier that collects 40 or more samples/month) five percent or fewer of monthly samples are positive; (a supplier that collects fewer than 40 samples/month) one or fewer positive monthly samples.

MCLG: 0

Major sources in drinking water: Naturally present in the environment.

Health effects language: Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.

Contaminant (units): Total Coliform Bacteria, beginning April 1, 2016

Traditional MCL in mg/l: TT

To convert for CCR, multiply by: –

MCL in CCR units: TT

MCLG: N/A

Major sources in drinking water: Naturally present in the environment.

Health effects language: Use language found in Section 611.883(h)(7)(A)(i)

Contaminant (units): Fecal coliform and E. coli, until March 31, 2016

Traditional MCL in mg/l: 0

To convert for CCR, multiply by: –

MCL in CCR units: 0

MCLG: 0

Major sources in drinking water: Human and animal fecal waste.

Health effects language: Fecal coliforms and E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely-compromised immune systems.

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Contaminant (units): E. coli, beginning April 1, 2016

Traditional MCL in mg/ℓ: Routine and repeat samples are total coliform-positive and either is E. coli-positive or system fails to take repeat samples following E. coli-positive routine sample or system fails to analyze total coliform-positive repeat sample for E. coli.

To convert for CCR, multiply by: –

MCL in CCR units: Routine and repeat samples are total coliform-positive and either is E. coli-positive or system fails to take repeat samples following E. coli-positive routine sample or system fails to analyze total coliform-positive repeat sample for E. coli.

MCLG: 0

Major sources in drinking water: Human and animal fecal waste.

Health effects language: E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, the elderly, and people with severely-compromised immune systems.

Contaminant (units): Fecal Indicators (enterococci or coliphage).

Traditional MCL in mg/ℓ: TT.

To convert for CCR, multiply by: –

MCL in CCR units: TT.

MCLG: N/A

Major sources in drinking water: Human and animal fecal waste.

Health effects language: Fecal indicators are microbes whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these wastes can cause short-term health effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.

Contaminant (units): Total organic carbon (ppm)

Traditional MCL in mg/ℓ: TT

To convert for CCR, multiply by: –

MCL in CCR units: TT

MCLG: N/A

Major sources in drinking water: Naturally present in the environment.

Health effects language: Total organic carbon (TOC) has no health effects. However, total organic carbon provides a medium for the formation of disinfection byproducts. These byproducts include trihalomethanes (THMs) and haloacetic acids (HAAs). Drinking water containing these byproducts in excess of

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the MCL may lead to adverse health effects, liver or kidney problems, or nervous system effects, and may lead to an increased risk of getting cancer.

Contaminant (units): Turbidity (NTU)

Traditional MCL in mg/ℓ: TT

To convert for CCR, multiply by: –

MCL in CCR units: TT

MCLG: N/A

Major sources in drinking water: Soil runoff.

Health effects language: Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

Radioactive contaminants.

Contaminant (units): Beta/photon emitters (mrem/yr)

Traditional MCL in mg/ℓ: 4 mrem/yr

To convert for CCR, multiply by: –

MCL in CCR units: 4

MCLG: 0

Major sources in drinking water: Decay of natural and man-made deposits.

Health effects language: Certain minerals are radioactive and may emit forms of radiation known as photons and beta radiation. Some people who drink water containing beta particle and photon radioactivity in excess of the MCL over many years may have an increased risk of getting cancer.

Contaminant (units): Alpha emitters (pCi/ℓ)

Traditional MCL in mg/ℓ: 15 pCi/ℓ

To convert for CCR, multiply by: –

MCL in CCR units: 15

MCLG: 0

Major sources in drinking water: Erosion of natural deposits.

Health effects language: Certain minerals are radioactive and may emit a form of radiation known as alpha radiation. Some people who drink water containing alpha emitters in excess of the MCL over many years may have an increased risk of getting cancer.

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Contaminant (units): Combined radium (pCi/ℓ)

Traditional MCL in mg/ℓ: 5 pCi/ℓ

To convert for CCR, multiply by: –

MCL in CCR units: 5

MCLG: 0

Major sources in drinking water: Erosion of natural deposits.

Health effects language: Some people who drink water containing radium-226 or -228 in excess of the MCL over many years may have an increased risk of getting cancer.

Contaminant (units): Uranium (μg/ℓ)

Traditional MCL in mg/ℓ: 30 μg/ℓ

To convert for CCR, multiply by: –

MCL in CCR units: 30

MCLG: 0

Major sources in drinking water: Erosion of natural deposits.

Health effects language: Some people who drink water containing uranium in excess of the MCL over many years may have an increased risk of getting cancer and kidney toxicity.

Inorganic contaminants.

Contaminant (units): Antimony (ppb)

Traditional MCL in mg/ℓ: 0.006

To convert for CCR, multiply by: 1000

MCL in CCR units: 6

MCLG: 6

Major sources in drinking water: Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder.

Health effects language: Some people who drink water containing antimony well in excess of the MCL over many years could experience increases in blood cholesterol and decreases in blood sugar.

Contaminant (units): Arsenic (ppb)

Traditional MCL in mg/ℓ: 0.010

To convert for CCR, multiply by: 1000

MCL in CCR units: 50

MCLG: 0

Major sources in drinking water: Erosion of natural deposits; runoff from orchards;

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runoff from glass and electronics production wastes.

Health effects language: Some people who drink water containing arsenic in excess of the MCL over many years could experience skin damage or problems with their circulatory system, and may have an increased risk of getting cancer.

Contaminant (units): Asbestos (MFL)

Traditional MCL in mg/ℓ: 7 MFL

To convert for CCR, multiply by: –

MCL in CCR units: 7

MCLG: 7

Major sources in drinking water: Decay of asbestos cement water mains; erosion of natural deposits.

Health effects language: Some people who drink water containing asbestos in excess of the MCL over many years may have an increased risk of developing benign intestinal polyps.

Contaminant (units): Barium (ppm)

Traditional MCL in mg/ℓ: 2

To convert for CCR, multiply by: –

MCL in CCR units: 2

MCLG: 2

Major sources in drinking water: Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.

Health effects language: Some people who drink water containing barium in excess of the MCL over many years could experience an increase in their blood pressure.

Contaminant (units): Beryllium (ppb)

Traditional MCL in mg/ℓ: 0.004

To convert for CCR, multiply by: 1000

MCL in CCR units: 4

MCLG: 4

Major sources in drinking water: Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries.

Health effects language: Some people who drink water containing beryllium well in excess of the MCL over many years could develop intestinal lesions.

Contaminant (units): Bromate (ppb)

Traditional MCL in mg/ℓ: 0.010

To convert for CCR, multiply by: 1000

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MCL in CCR units: 10

MCLG: 0

Major sources in drinking water: By-product of drinking water disinfection.

Health effects language: Some people who drink water containing bromate in excess of the MCL over many years may have an increased risk of getting cancer.

Contaminant (units): Cadmium (ppb)

Traditional MCL in mg/l: 0.005

To convert for CCR, multiply by: 1000

MCL in CCR units: 5

MCLG: 5

Major sources in drinking water: Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints.

Health effects language: Some people who drink water containing cadmium in excess of the MCL over many years could experience kidney damage.

Contaminant (units): Chloramines (ppm)

Traditional MCL in mg/l: MRDL=4

To convert for CCR, multiply by: -

MCL in CCR units: MRDL=4

MCLG: MRDLG=4

Major sources in drinking water: Water additive used to control microbes.

Health effects language: Some people who drink water containing chloramines well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chloramines well in excess of the MRDL could experience stomach discomfort or anemia.

Contaminant (units): Chlorine (ppm)

Traditional MCL in mg/l: MRDL=4

To convert for CCR, multiply by: -

MCL in CCR units: MRDL=4

MCLG: MRDLG=4

Major sources in drinking water: Water additive used to control microbes.

Health effects language: Some people who drink water containing chlorine well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chlorine well in excess of the MRDL could experience stomach discomfort.

Contaminant (units): Chlorine dioxide (ppb)

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Traditional MCL in mg/ℓ: MRDL=800

To convert for CCR, multiply by: 1000

MCL in CCR units: MRDL=800

MCLG: MRDLG=800

Major sources in drinking water: Water additive used to control microbes.

Health effects language: Some infants and young children who drink water containing chlorine dioxide well in excess of the MRDL could experience nervous system effects. Similar effects may occur in fetuses of pregnant women who drink water containing chlorine dioxide in excess of the MRDL. Some people may experience anemia.

Contaminant (units): Chlorite (ppm)

Traditional MCL in mg/ℓ: MRDL=1

To convert for CCR, multiply by: –

MCL in CCR units: MRDL=1

MCLG: MRDLG=0.8

Major sources in drinking water: By-product of drinking water disinfection.

Health effects language: Some infants and young children who drink water containing chlorite well in excess of the MCL could experience nervous system effects. Similar effects may occur in fetuses of pregnant women who drink water containing chlorite in excess of the MCL. Some people may experience anemia.

Contaminant (units): Chromium (ppb)

Traditional MCL in mg/ℓ: 0.1

To convert for CCR, multiply by: 1000

MCL in CCR units: 100

MCLG: 100

Major sources in drinking water: Discharge from steel and pulp mills; erosion of natural deposits.

Health effects language: Some people who use water containing chromium well in excess of the MCL over many years could experience allergic dermatitis.

Contaminant (units): Copper (ppm)

Traditional MCL in mg/ℓ: AL=1.3

To convert for CCR, multiply by: –

MCL in CCR units: AL=1.3

MCLG: 1.3

Major sources in drinking water: Corrosion of household plumbing systems; erosion of natural deposits.

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Health effects language: Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor.

Contaminant (units): Cyanide (ppb)

Traditional MCL in mg/l: 0.2

To convert for CCR, multiply by: 1000

MCL in CCR units: 200

MCLG: 200

Major sources in drinking water: Discharge from steel/metal factories; discharge from plastic and fertilizer factories.

Health effects language: Some people who drink water containing cyanide well in excess of the MCL over many years could experience nerve damage or problems with their thyroid.

Contaminant (units): Fluoride (ppm)

Traditional MCL in mg/l: 4

To convert for CCR, multiply by: –

MCL in CCR units: 4

MCLG: 4

Major sources in drinking water: Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories.

Health effects language: Some people who drink water containing fluoride in excess of the MCL over many years could get bone disease, including pain and tenderness of the bones. Fluoride in drinking water at half the MCL or more may cause mottling of children's teeth, usually in children less than nine years old. Mottling, also known as dental fluorosis, may include brown staining or pitting of the teeth, and occurs only in developing teeth before they erupt from the gums.

Contaminant (units): Lead (ppb)

Traditional MCL in mg/l: AL=0.015

To convert for CCR, multiply by: 1000

MCL in CCR units: AL=15

MCLG: 0

Major sources in drinking water: Corrosion of household plumbing systems; erosion of natural deposits.

Health effects language: Infants and children who drink water containing lead in excess

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of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.

Contaminant (units): Mercury (inorganic) (ppb)

Traditional MCL in mg/ℓ: 0.002

To convert for CCR, multiply by: 1000

MCL in CCR units: 2

MCLG: 2

Major sources in drinking water: Erosion of natural deposits; discharge from refineries and factories; runoff from landfills; runoff from cropland.

Health effects language: Some people who drink water containing inorganic mercury well in excess of the MCL over many years could experience kidney damage.

Contaminant (units): Nitrate (ppm)

Traditional MCL in mg/ℓ: 10

To convert for CCR, multiply by: –

MCL in CCR units: 10

MCLG: 10

Major sources in drinking water: Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.

Health effects language: Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die.

Symptoms include shortness of breath and blue baby syndrome.

Contaminant (units): Nitrite (ppm)

Traditional MCL in mg/ℓ: 1

To convert for CCR, multiply by: –

MCL in CCR units: 1

MCLG: 1

Major sources in drinking water: Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.

Health effects language: Infants below the age of six months who drink water containing nitrite in excess of the MCL could become seriously ill and, if untreated, may die.

Symptoms include shortness of breath and blue baby syndrome.

Contaminant (units): Selenium (ppb)

Traditional MCL in mg/ℓ: 0.05

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To convert for CCR, multiply by: 1000

MCL in CCR units: 50

MCLG: 50

Major sources in drinking water: Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines.

Health effects language: Selenium is an essential nutrient. However, some people who drink water containing selenium in excess of the MCL over many years could experience hair or fingernail losses, numbness in fingers or toes, or problems with their circulation.

Contaminant (units): Thallium (ppb)

Traditional MCL in mg/ℓ: 0.002

To convert for CCR, multiply by: 1000

MCL in CCR units: 2

MCLG: 0.5

Major sources in drinking water: Leaching from ore-processing sites; discharge from electronics, glass, and drug factories.

Health effects language: Some people who drink water containing thallium in excess of the MCL over many years could experience hair loss, changes in their blood, or problems with their kidneys, intestines, or liver.

Synthetic organic contaminants including pesticides and herbicides.

Contaminant (units): 2,4-D (ppb)

Traditional MCL in mg/ℓ: 0.07

To convert for CCR, multiply by: 1000

MCL in CCR units: 70

MCLG: 70

Major sources in drinking water: Runoff from herbicide used on row crops.

Health effects language: Some people who drink water containing the weed killer 2,4-D well in excess of the MCL over many years could experience problems with their kidneys, liver, or adrenal glands.

Contaminant (units): 2,4,5-TP (silvex) (ppb)

Traditional MCL in mg/ℓ: 0.05

To convert for CCR, multiply by: 1000

MCL in CCR units: 50

MCLG: 50

Major sources in drinking water: Residue of banned herbicide.

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Health effects language: Some people who drink water containing silvex in excess of the MCL over many years could experience liver problems.

Contaminant (units): Acrylamide
Traditional MCL in mg/ℓ: TT
To convert for CCR, multiply by: –
MCL in CCR units: TT
MCLG: 0

Major sources in drinking water: Added to water during sewage/wastewater treatment.
Health effects language: Some people who drink water containing high levels of acrylamide over a long period of time could have problems with their nervous system or blood, and may have an increased risk of getting cancer.

Contaminant (units): Alachlor (ppb)
Traditional MCL in mg/ℓ: 0.002
To convert for CCR, multiply by: 1000
MCL in CCR units: 2
MCLG: 0

Major sources in drinking water: Runoff from herbicide used on row crops.
Health effects language: Some people who drink water containing alachlor in excess of the MCL over many years could have problems with their eyes, liver, kidneys, or spleen, or experience anemia, and may have an increased risk of getting cancer.

Contaminant (units): Atrazine (ppb)
Traditional MCL in mg/ℓ: 0.003
To convert for CCR, multiply by: 1000
MCL in CCR units: 3
MCLG: 3

Major sources in drinking water: Runoff from herbicide used on row crops.
Health effects language: Some people who drink water containing atrazine well in excess of the MCL over many years could experience problems with their cardiovascular system or reproductive difficulties.

Contaminant (units): Benzo(a)pyrene (PAH) (nanograms/ℓ)
Traditional MCL in mg/ℓ: 0.0002
To convert for CCR, multiply by: 1,000,000
MCL in CCR units: 200
MCLG: 0

Major sources in drinking water: Leaching from linings of water storage tanks and

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distribution lines.

Health effects language: Some people who drink water containing benzo(a)pyrene in excess of the MCL over many years may experience reproductive difficulties and may have an increased risk of getting cancer.

Contaminant (units): Carbofuran (ppb)

Traditional MCL in mg/l: 0.04

To convert for CCR, multiply by: 1000

MCL in CCR units: 40

MCLG: 40

Major sources in drinking water: Leaching of soil fumigant used on rice and alfalfa.

Health effects language: Some people who drink water containing carbofuran in excess of the MCL over many years could experience problems with their blood, or nervous or reproductive systems.

Contaminant (units): Chlordane (ppb)

Traditional MCL in mg/l: 0.002

To convert for CCR, multiply by: 1000

MCL in CCR units: 2

MCLG: 0

Major sources in drinking water: Residue of banned termiticide.

Health effects language: Some people who drink water containing chlordane in excess of the MCL over many years could experience problems with their liver or nervous system, and may have an increased risk of getting cancer.

Contaminant (units): Dalapon (ppb)

Traditional MCL in mg/l: 0.2

To convert for CCR, multiply by: 1000

MCL in CCR units: 200

MCLG: 200

Major sources in drinking water: Runoff from herbicide used on rights of way.

Health effects language: Some people who drink water containing dalapon well in excess of the MCL over many years could experience minor kidney changes.

Contaminant (units): Di(2-ethylhexyl)adipate (ppb)

Traditional MCL in mg/l: 0.4

To convert for CCR, multiply by: 1000

MCL in CCR units: 400

MCLG: 400

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Major sources in drinking water: Discharge from chemical factories.

Health effects language: Some people who drink water containing di(2-ethylhexyl)adipate well in excess of the MCL over many years could experience toxic effects, such as weight loss, liver enlargement, or possible reproductive difficulties.

Contaminant (units): Di(2-ethylhexyl)phthalate (ppb)

Traditional MCL in mg/ℓ: 0.006

To convert for CCR, multiply by: 1000

MCL in CCR units: 6

MCLG: 0

Major sources in drinking water: Discharge from rubber and chemical factories.

Health effects language: Some people who drink water containing di(2-ethylhexyl)phthalate well in excess of the MCL over many years may have problems with their liver or experience reproductive difficulties, and they may have an increased risk of getting cancer.

Contaminant (units): Dibromochloropropane (DBCP) (ppt)

Traditional MCL in mg/ℓ: 0.0002

To convert for CCR, multiply by: 1,000,000

MCL in CCR units: 200

MCLG: 0

Major sources in drinking water: Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards.

Health effects language: Some people who drink water containing DBCP in excess of the MCL over many years could experience reproductive problems and may have an increased risk of getting cancer.

Contaminant (units): Dinoseb (ppb)

Traditional MCL in mg/ℓ: 0.007

To convert for CCR, multiply by: 1000

MCL in CCR units: 7

MCLG: 7

Major sources in drinking water: Runoff from herbicide used on soybeans and vegetables.

Health effects language: Some people who drink water containing dinoseb well in excess of the MCL over many years could experience reproductive difficulties.

Contaminant (units): Diquat (ppb)

Traditional MCL in mg/ℓ: 0.02

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To convert for CCR, multiply by: 1000

MCL in CCR units: 20

MCLG: 20

Major sources in drinking water: Runoff from herbicide use.

Health effects language: Some people who drink water containing diquat in excess of the MCL over many years could get cataracts.

Contaminant (units): Dioxin (2,3,7,8-TCDD) (ppq)

Traditional MCL in mg/l: 0.00000003

To convert for CCR, multiply by: 1,000,000,000

MCL in CCR units: 30

MCLG: 0

Major sources in drinking water: Emissions from waste incineration and other combustion; discharge from chemical factories.

Health effects language: Some people who drink water containing dioxin in excess of the MCL over many years could experience reproductive difficulties and may have an increased risk of getting cancer.

Contaminant (units): Endothall (ppb)

Traditional MCL in mg/l: 0.1

To convert for CCR, multiply by: 1000

MCL in CCR units: 100

MCLG: 100

Major sources in drinking water: Runoff from herbicide use.

Health effects language: Some people who drink water containing endothall in excess of the MCL over many years could experience problems with their stomach or intestines.

Contaminant (units): Endrin (ppb)

Traditional MCL in mg/l: 0.002

To convert for CCR, multiply by: 1000

MCL in CCR units: 2

MCLG: 2

Major sources in drinking water: Residue of banned insecticide.

Health effects language: Some people who drink water containing endrin in excess of the MCL over many years could experience liver problems.

Contaminant (units): Epichlorohydrin

Traditional MCL in mg/l: TT

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To convert for CCR, multiply by: –

MCL in CCR units: TT

MCLG: 0

Major sources in drinking water: Discharge from industrial chemical factories; an impurity of some water treatment chemicals.

Health effects language: Some people who drink water containing high levels of epichlorohydrin over a long period of time could experience stomach problems, and may have an increased risk of getting cancer.

Contaminant (units): Ethylene dibromide (ppt)

Traditional MCL in mg/ℓ: 0.00005

To convert for CCR, multiply by: 1,000,000

MCL in CCR units: 50

MCLG: 0

Major sources in drinking water: Discharge from petroleum refineries.

Health effects language: Some people who drink water containing ethylene dibromide in excess of the MCL over many years could experience problems with their liver, stomach, reproductive system, or kidneys, and may have an increased risk of getting cancer.

Contaminant (units): Glyphosate (ppb)

Traditional MCL in mg/ℓ: 0.7

To convert for CCR, multiply by: 1000

MCL in CCR units: 700

MCLG: 700

Major sources in drinking water: Runoff from herbicide use.

Health effects language: Some people who drink water containing glyphosate in excess of the MCL over many years could experience problems with their kidneys or reproductive difficulties.

Contaminant (units): Heptachlor (ppt)

Traditional MCL in mg/ℓ: 0.0004

To convert for CCR, multiply by: 1,000,000

MCL in CCR units: 400

MCLG: 0

Major sources in drinking water: Residue of banned pesticide.

Health effects language: Some people who drink water containing heptachlor in excess of the MCL over many years could experience liver damage and may have an increased risk of getting cancer.

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Contaminant (units): Heptachlor epoxide (ppt)

Traditional MCL in mg/ℓ: 0.0002

To convert for CCR, multiply by: 1,000,000

MCL in CCR units: 200

MCLG: 0

Major sources in drinking water: Breakdown of heptachlor.

Health effects language: Some people who drink water containing heptachlor epoxide in excess of the MCL over many years could experience liver damage, and may have an increased risk of getting cancer.

Contaminant (units): Hexachlorobenzene (ppb)

Traditional MCL in mg/ℓ: 0.001

To convert for CCR, multiply by: 1000

MCL in CCR units: 1

MCLG: 0

Major sources in drinking water: Discharge from metal refineries and agricultural chemical factories.

Health effects language: Some people who drink water containing hexachlorobenzene in excess of the MCL over many years could experience problems with their liver or kidneys, or adverse reproductive effects, and may have an increased risk of getting cancer.

Contaminant (units): Hexachlorocyclopentadiene (ppb)

Traditional MCL in mg/ℓ: 0.05

To convert for CCR, multiply by: 1000

MCL in CCR units: 50

MCLG: 50

Major sources in drinking water: Discharge from chemical factories.

Health effects language: Some people who drink water containing hexachlorocyclopentadiene well in excess of the MCL over many years could experience problems with their kidneys or stomach.

Contaminant (units): Lindane (ppt)

Traditional MCL in mg/ℓ: 0.0002

To convert for CCR, multiply by: 1,000,000

MCL in CCR units: 200

MCLG: 200

Major sources in drinking water: Runoff/leaching from insecticide used on cattle,

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lumber, gardens.

Health effects language: Some people who drink water containing lindane in excess of the MCL over many years could experience problems with their kidneys or liver.

Contaminant (units): Methoxychlor (ppb)

Traditional MCL in mg/l: 0.04

To convert for CCR, multiply by: 1000

MCL in CCR units: 40

MCLG: 40

Major sources in drinking water: Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, livestock.

Health effects language: Some people who drink water containing methoxychlor in excess of the MCL over many years could experience reproductive difficulties.

Contaminant (units): Oxamyl (vydate) (ppb)

Traditional MCL in mg/l: 0.2

To convert for CCR, multiply by: 1000

MCL in CCR units: 200

MCLG: 200

Major sources in drinking water: Runoff/leaching from insecticide used on apples, potatoes and tomatoes.

Health effects language: Some people who drink water containing oxamyl in excess of the MCL over many years could experience slight nervous system effects.

Contaminant (units): PCBs (polychlorinated biphenyls) (ppt)

Traditional MCL in mg/l: 0.0005

To convert for CCR, multiply by: 1,000,000

MCL in CCR units: 500

MCLG: 0

Major sources in drinking water: Runoff from landfills; discharge of waste chemicals.

Health effects language: Some people who drink water containing PCBs in excess of the MCL over many years could experience changes in their skin, problems with their thymus gland, immune deficiencies, or reproductive or nervous system difficulties, and may have an increased risk of getting cancer.

Contaminant (units): Pentachlorophenol (ppb)

Traditional MCL in mg/l: 0.001

To convert for CCR, multiply by: 1000

MCL in CCR units: 1

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MCLG: 0

Major sources in drinking water: Discharge from wood preserving factories.

Health effects language: Some people who drink water containing pentachlorophenol in excess of the MCL over many years could experience problems with their liver or kidneys, and may have an increased risk of getting cancer.

Contaminant (units): Picloram (ppb)

Traditional MCL in mg/l: 0.5

To convert for CCR, multiply by: 1000

MCL in CCR units: 500

MCLG: 500

Major sources in drinking water: Herbicide runoff.

Health effects language: Some people who drink water containing picloram in excess of the MCL over many years could experience problems with their liver.

Contaminant (units): Simazine (ppb)

Traditional MCL in mg/l: 0.004

To convert for CCR, multiply by: 1000

MCL in CCR units: 4

MCLG: 4

Major sources in drinking water: Herbicide runoff.

Health effects language: Some people who drink water containing simazine in excess of the MCL over many years could experience problems with their blood.

Contaminant (units): Toxaphene (ppb)

Traditional MCL in mg/l: 0.003

To convert for CCR, multiply by: 1000

MCL in CCR units: 3

MCLG: 0

Major sources in drinking water: Runoff/leaching from insecticide used on cotton and cattle.

Health effects language: Some people who drink water containing toxaphene in excess of the MCL over many years could have problems with their kidneys, liver, or thyroid, and may have an increased risk of getting cancer.

Volatile organic contaminants.

Contaminant (units): Benzene (ppb)

Traditional MCL in mg/l: 0.005

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To convert for CCR, multiply by: 1000

MCL in CCR units: 5

MCLG: 0

Major sources in drinking water: Discharge from factories; leaching from gas storage tanks and landfills.

Health effects language: Some people who drink water containing benzene in excess of the MCL over many years could experience anemia or a decrease in blood platelets, and may have an increased risk of getting cancer.

Contaminant (units): Carbon tetrachloride (ppb)

Traditional MCL in mg/ℓ: 0.005

To convert for CCR, multiply by: 1000

MCL in CCR units: 5

MCLG: 0

Major sources in drinking water: Discharge from chemical plants and other industrial activities.

Health effects language: Some people who drink water containing carbon tetrachloride in excess of the MCL over many years could experience problems with their liver and may have an increased risk of getting cancer.

Contaminant (units): Chlorobenzene (ppb)

Traditional MCL in mg/ℓ: 0.1

To convert for CCR, multiply by: 1000

MCL in CCR units: 100

MCLG: 100

Major sources in drinking water: Discharge from chemical and agricultural chemical factories.

Health effects language: Some people who drink water containing chlorobenzene in excess of the MCL over many years could experience problems with their liver or kidneys.

Contaminant (units): o-Dichlorobenzene (ppb)

Traditional MCL in mg/ℓ: 0.6

To convert for CCR, multiply by: 1000

MCL in CCR units: 600

MCLG: 600

Major sources in drinking water: Discharge from industrial chemical factories.

Health effects language: Some people who drink water containing o-dichlorobenzene well in excess of the MCL over many years could experience problems with their

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liver, kidneys, or circulatory systems.

Contaminant (units): p-Dichlorobenzene (ppb)

Traditional MCL in mg/ℓ: 0.075

To convert for CCR, multiply by: 1000

MCL in CCR units: 75

MCLG: 75

Major sources in drinking water: Discharge from industrial chemical factories.

Health effects language: Some people who drink water containing p-dichlorobenzene in excess of the MCL over many years could experience anemia; damage to their liver, kidneys, or spleen; or changes in their blood.

Contaminant (units): 1,2-Dichloroethane (ppb)

Traditional MCL in mg/ℓ: 0.005

To convert for CCR, multiply by: 1000

MCL in CCR units: 5

MCLG: 0

Major sources in drinking water: Discharge from industrial chemical factories.

Health effects language: Some people who drink water containing 1,2-dichloroethane in excess of the MCL over many years may have an increased risk of getting cancer.

Contaminant (units): 1,1-Dichloroethylene (ppb)

Traditional MCL in mg/ℓ: 0.007

To convert for CCR, multiply by: 1000

MCL in CCR units: 7

MCLG: 7

Major sources in drinking water: Discharge from industrial chemical factories.

Health effects language: Some people who drink water containing 1,1-dichloroethylene in excess of the MCL over many years could experience problems with their liver.

Contaminant (units): cis-1,2-Dichloroethylene (ppb)

Traditional MCL in mg/ℓ: 0.07

To convert for CCR, multiply by: 1000

MCL in CCR units: 70

MCLG: 70

Major sources in drinking water: Discharge from industrial chemical factories.

Health effects language: Some people who drink water containing cis-1,2-dichloroethylene in excess of the MCL over many years could experience problems with their liver.

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Contaminant (units): trans-1,2-Dichloroethylene (ppb)

Traditional MCL in mg/l: 0.1

To convert for CCR, multiply by: 1000

MCL in CCR units: 100

MCLG: 100

Major sources in drinking water: Discharge from industrial chemical factories.

Health effects language: Some people who drink water containing trans-1,2-dichloroethylene well in excess of the MCL over many years could experience problems with their liver.

Contaminant (units): Dichloromethane (ppb)

Traditional MCL in mg/l: 0.005

To convert for CCR, multiply by: 1000

MCL in CCR units: 5

MCLG: 0

Major sources in drinking water: Discharge from pharmaceutical and chemical factories.

Health effects language: Some people who drink water containing dichloromethane in excess of the MCL over many years could have liver problems and may have an increased risk of getting cancer.

Contaminant (units): 1,2-Dichloropropane (ppb)

Traditional MCL in mg/l: 0.005

To convert for CCR, multiply by: 1000

MCL in CCR units: 5

MCLG: 0

Major sources in drinking water: Discharge from industrial chemical factories.

Health effects language: Some people who drink water containing 1,2-dichloropropane in excess of the MCL over many years may have an increased risk of getting cancer.

Contaminant (units): Ethylbenzene (ppb)

Traditional MCL in mg/l: 0.7

To convert for CCR, multiply by: 1000

MCL in CCR units: 700

MCLG: 700

Major sources in drinking water: Discharge from petroleum refineries.

Health effects language: Some people who drink water containing ethylbenzene well in excess of the MCL over many years could experience problems with their liver or kidneys.

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Contaminant (units): Haloacetic acids (HAA5) (ppb)

Traditional MCL in mg/l: 0.060

To convert for CCR, multiply by: 1000

MCL in CCR units: 60

MCLG: N/A

Major sources in drinking water: Byproduct of drinking water disinfection.

Health effects language: Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.

Contaminant (units): Styrene (ppb)

Traditional MCL in mg/l: 0.1

To convert for CCR, multiply by: 1000

MCL in CCR units: 100

MCLG: 100

Major sources in drinking water: Discharge from rubber and plastic factories; leaching from landfills.

Health effects language: Some people who drink water containing styrene well in excess of the MCL over many years could have problems with their liver, kidneys, or circulatory system.

Contaminant (units): Tetrachloroethylene (ppb)

Traditional MCL in mg/l: 0.005

To convert for CCR, multiply by: 1000

MCL in CCR units: 5

MCLG: 0

Major sources in drinking water: Discharge from factories and dry cleaners.

Health effects language: Some people who drink water containing tetrachloroethylene in excess of the MCL over many years could have problems with their liver, and may have an increased risk of getting cancer.

Contaminant (units): 1,2,4-Trichlorobenzene (ppb)

Traditional MCL in mg/l: 0.07

To convert for CCR, multiply by: 1000

MCL in CCR units: 70

MCLG: 70

Major sources in drinking water: Discharge from textile-finishing factories.

Health effects language: Some people who drink water containing 1,2,4-trichlorobenzene well in excess of the MCL over many years could experience changes in their adrenal

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glands.

Contaminant (units): 1,1,1-Trichloroethane (ppb)

Traditional MCL in mg/ℓ: 0.2

To convert for CCR, multiply by: 1000

MCL in CCR units: 200

MCLG: 200

Major sources in drinking water: Discharge from metal degreasing sites and other factories.

Health effects language: Some people who drink water containing 1,1,1-trichloroethane in excess of the MCL over many years could experience problems with their liver, nervous system, or circulatory system.

Contaminant (units): 1,1,2-Trichloroethane (ppb)

Traditional MCL in mg/ℓ: 0.005

To convert for CCR, multiply by: 1000

MCL in CCR units: 5

MCLG: 3

Major sources in drinking water: Discharge from industrial chemical factories.

Health effects language: Some people who drink water containing 1,1,2-trichloroethane well in excess of the MCL over many years could have problems with their liver, kidneys, or immune systems.

Contaminant (units): Trichloroethylene (ppb)

Traditional MCL in mg/ℓ: 0.005

To convert for CCR, multiply by: 1000

MCL in CCR units: 5

MCLG: 0

Major sources in drinking water: Discharge from metal degreasing sites and other factories.

Health effects language: Some people who drink water containing trichloroethylene in excess of the MCL over many years could experience problems with their liver and may have an increased risk of getting cancer.

Contaminant (units): TTHMs (total trihalomethanes) (ppb)

Traditional MCL in mg/ℓ: 0.10/0.080

To convert for CCR, multiply by: 1000

MCL in CCR units: 100/80

MCLG: N/A

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Major sources in drinking water: Byproduct of drinking water disinfection.

Health effects language: Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system, and may have an increased risk of getting cancer.

Contaminant (units): Toluene (ppm)

Traditional MCL in mg/l: 1

To convert for CCR, multiply by: –

MCL in CCR units: 1

MCLG: 1

Major sources in drinking water: Discharge from petroleum factories.

Health effects language: Some people who drink water containing toluene well in excess of the MCL over many years could have problems with their nervous system, kidneys, or liver.

Contaminant (units): Vinyl Chloride (ppb)

Traditional MCL in mg/l: 0.002

To convert for CCR, multiply by: 1000

MCL in CCR units: 2

MCLG: 0

Major sources in drinking water: Leaching from PVC piping; discharge from plastics factories.

Health effects language: Some people who drink water containing vinyl chloride in excess of the MCL over many years may have an increased risk of getting cancer.

Contaminant (units): Xylenes (ppm)

Traditional MCL in mg/l: 10

To convert for CCR, multiply by: –

MCL in CCR units: 10

MCLG: 10

Major sources in drinking water: Discharge from petroleum factories; discharge from chemical factories.

Health effects language: Some people who drink water containing xylenes in excess of the MCL over many years could experience damage to their nervous system.

Key.

Abbreviation	Meaning
AL	action level

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MCL	maximum contaminant level
MCLG	maximum contaminant level goal
MFL	million fibers per liter
MRDL	maximum residual disinfectant level
MRDLG	maximum residual disinfectant level goal
mrem/year	millirems per year (a measure of radiation absorbed by the body)
N/A	not applicable
NTU	nephelometric turbidity units (a measure of water clarity)
pCi/ℓ	picocuries per liter (a measure of radioactivity)
ppm	parts per million, or milligrams per liter (mg/ℓ)
ppb	parts per billion, or micrograms per liter (μg/ℓ)
ppt	parts per trillion, or nanograms per liter
ppq	parts per quadrillion, or picograms per liter
TT	treatment technique

| BOARD NOTE: Derived from appendix A to subpart O to 40 CFR 141 ~~(2013)~~(2012).

(Source: Amended at 38 Ill. Reg. _____, effective _____)

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Section 611.APPENDIX G NPDWR Violations and Situations Requiring Public Notice

See note 1 at the end of this Appendix G for an explanation of the Agency's authority to alter the magnitude of a violation from that set forth in the following table.

Contaminant	MCL/MRDL/TT violations ²		Monitoring & testing procedure violations	
	Tier of public notice required	Citation	Tier of public notice required	Citation

I. Violations of National Primary Drinking Water Regulations (NPDWR):³

A. Microbiological Contaminants

<u>1a. Total coliform bacteria, until March 31, 2016</u>	<u>2</u>	611.325(a)	3	611.521-611.525
<u>1b. Total coliform (Monitoring or TT violations resulting from failure to perform assessments or corrective actions), beginning April 1, 2016</u>	<u>2</u>	<u>141.860(b)</u>	<u>3</u>	<u>141.860(c)</u>
<u>1c. Seasonal system failure to follow State-approved start-up plan prior to serving water to the public, beginning April 1, 2016</u>	<u>2</u>	<u>141.860(b)(2)</u>		
<u>2a. Fecal coliform/E. coli, until March 31, 2016</u>	1	611.325(b)	⁴ 1, 3	611.525
<u>2b. E. coli, beginning April 1, 2016</u>	<u>1</u>	<u>141.860(a)</u>	<u>3</u>	<u>141.860(c)</u> <u>141.860(d)(2)</u>
<u>2c. E. coli (TT violations resulting from failure to perform level 2 assessments or corrective action), beginning April 1, 2016</u>	<u>2</u>	<u>141.860(b)</u>		
3. Turbidity MCL	2	611.320(a)	3	611.560

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4. Turbidity MCL (average of two days' samples greater than 5 NTU)	⁵ 2, 1	611.320(b)	3	611.560
5. Turbidity (for TT violations resulting from a single exceedence of maximum allowable turbidity level)	⁶ 2, 1	611.231(b), 611.233(b)(1), 611.250(a)(2), 611.250(b)(2), 611.250(c)(2), 611.250(d), 611.743(a)(2), 611.743(b), 611.955(b)(2)	3	611.531(a), 611.532(b), 611.533(a), 611.744, 611.956(a)(1)- (a)(3), 611.956(b)
6. Surface Water Treatment Rule violations, other than violations resulting from single exceedence of max. allowable turbidity level (TT)	2	611.211, 611.213, 611.220, 611.230- 611.233, 611.240- 611.242, 611.250	3	611.531- 611.533
7. Interim Enhanced Surface Water Treatment Rule violations, other than violations resulting from single exceedence of max. turbidity level (TT)	2	⁷ 611.740- 611.743, 611.950- 611.955	3	611.742, 611.744, 611.953, 611.954, 611.956
8. Filter Backwash Recycling Rule violations	2	611.276(c)	3	611.276(b), (d)
9. Long Term 1 Enhanced Surface Water Treatment Rule violations	2	611.950- 611.955	3	611.953, 611.954, 611.956
10. LT2ESWTR violations	2	611.1010- 611.1020	¹⁹ 2, 3	611.1001- 611.1005 and 611.1008- 611.1009
11. Groundwater Rule violations	2	611.804	3	611.802(h)

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B. Inorganic Chemicals (IOCs)

1. Antimony	2	611.301(b)	3	611.600, 611.601, 611.603
2. Arsenic	2	⁸ 611.301(b)	3	611.601, 611.603
3. Asbestos (fibers greater than 10 µm)	2	611.301(b)	3	611.600, 611.601, 611.602
4. Barium	2	611.301(b)	3	611.600, 611.601, 611.603
5. Beryllium	2	611.301(b)	3	611.600, 611.601, 611.603
6. Cadmium	2	611.301(b)	3	611.600, 611.601, 611.603
7. Chromium (total)	2	611.301(b)	3	611.600, 611.601, 611.603
8. Cyanide	2	611.301(b)	3	611.600, 611.601, 611.603
9. Fluoride	2	611.301(b)	3	611.600, 611.601, 611.603
10. Mercury (inorganic)	2	611.301(b)	3	611.600, 611.601, 611.603
11. Nitrate	1	611.301(b)	⁸ 1, 3	611.600, 611.601, 611.604, 611.606
12. Nitrite	1	611.301(b)	⁸ 1, 3	611.600, 611.601, 611.605, 611.606

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13. Total Nitrate and Nitrite	1	611.301(b)	3	611.600, 611.601
14. Selenium	2	611.301(b)	3	611.600, 611.601, 611.603
15. Thallium	2	611.301(b)	3	611.600, 611.601, 611.603

C. Lead and Copper Rule (Action Level for lead is 0.015 mg/ℓ, for copper is 1.3 mg/ℓ)

1. Lead and Copper Rule (TT)	2	611.350- 611.355	3	611.356- 611.359
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D. Synthetic Organic Chemicals (SOCs)

1. 2,4-D	2	611.310(c)	3	611.648
2. 2,4,5-TP (silvex)	2	611.310(c)	3	611.648
3. Alachlor	2	611.310(c)	3	611.648
4. Atrazine	2	611.310(c)	3	611.648
5. Benzo(a)pyrene (PAHs)	2	611.310(c)	3	611.648
6. Carbofuran	2	611.310(c)	3	611.648
7. Chlordane	2	611.310(c)	3	611.648
8. Dalapon	2	611.310(c)	3	611.648
9. Di(2-ethylhexyl)adipate	2	611.310(c)	3	611.648
10. Di(2-ethylhexyl)phthalate	2	611.310(c)	3	611.648
11. Dibromochloropropane (DBCP)	2	611.310(c)	3	611.648
12. Dinoseb	2	611.310(c)	3	611.648
13. Dioxin (2,3,7,8-TCDD)	2	611.310(c)	3	611.648
14. Diquat	2	611.310(c)	3	611.648
15. Endothall	2	611.310(c)	3	611.648
16. Endrin	2	611.310(c)	3	611.648
17. Ethylene dibromide	2	611.310(c)	3	611.648
18. Glyphosate	2	611.310(c)	3	611.648
19. Heptachlor	2	611.310(c)	3	611.648
20. Heptachlor epoxide	2	611.310(c)	3	611.648
21. Hexachlorobenzene	2	611.310(c)	3	611.648
22. Hexachlorocyclopentadiene	2	611.310(c)	3	611.648
23. Lindane	2	611.310(c)	3	611.648

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24. Methoxychlor	2	611.310(c)	3	611.648
25. Oxamyl (Vydate)	2	611.310(c)	3	611.648
26. Pentachlorophenol	2	611.310(c)	3	611.648
27. Picloram	2	611.310(c)	3	611.648
28. Polychlorinated biphenyls (PCBs)	2	611.310(c)	3	611.648
29. Simazine	2	611.310(c)	3	611.648
30. Toxaphene	2	611.310(c)	3	611.648

E. Volatile Organic Chemicals (VOCs)

1. Benzene	2	611.310(a)	3	611.646
2. Carbon tetrachloride	2	611.310(a)	3	611.646
3. Chlorobenzene (monochlorobenzene)	2	611.310(a)	3	611.646
4. o-Dichlorobenzene	2	611.310(a)	3	611.646
5. p-Dichlorobenzene	2	611.310(a)	3	611.646
6. 1,2-Dichloroethane	2	611.310(a)	3	611.646
7. 1,1-Dichloroethylene	2	611.310(a)	3	611.646
8. cis-1,2-Dichloroethylene	2	611.310(a)	3	611.646
9. trans-1,2-Dichloroethylene	2	611.310(a)	3	611.646
10. Dichloromethane	2	611.310(a)	3	611.646
11. 1,2-Dichloropropane	2	611.310(a)	3	611.646
12. Ethylbenzene	2	611.310(a)	3	611.646
13. Styrene	2	611.310(a)	3	611.646
14. Tetrachloroethylene	2	611.310(a)	3	611.646
15. Toluene	2	611.310(a)	3	611.646
16. 1,2,4-Trichlorobenzene	2	611.310(a)	3	611.646
17. 1,1,1-Trichloroethane	2	611.310(a)	3	611.646
18. 1,1,2-Trichloroethane	2	611.310(a)	3	611.646
19. Trichloroethylene	2	611.310(a)	3	611.646
20. Vinyl chloride	2	611.310(a)	3	611.646
21. Xylenes (total)	2	611.310(a)	3	611.646

F. Radioactive Contaminants

1. Beta/photon emitters	2	611.330(d)	3	611.720(a), 611.732
2. Alpha emitters	2	611.330(c)	3	611.720(a), 611.731

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3. Combined radium (226 & 228)	2	611.330(b)	3	611.720(a), 611.731
4. Uranium	2	611.330(e)	3	611.720(a), 611.731

G. Disinfection Byproducts (DBPs), Byproduct Precursors, Disinfectant Residuals. Where disinfection is used in the treatment of drinking water, disinfectants combine with organic and inorganic matter present in water to form chemicals called disinfection byproducts (DBPs). USEPA sets standards for controlling the levels of disinfectants and DBPs in drinking water, including trihalomethanes (THMs) and haloacetic acids (HAAs).¹³

1. Total trihalomethanes (TTHMs)	2	¹¹ 611.312(b)	3	Subparts W and Y of this Part
2. Haloacetic Acids (HAA5)	2	611.312(b)	3	Subpart Y of this Part
3. Bromate	2	611.312(a)	3	611.382(a)-(b)
4. Chlorite	2	611.312(a)	3	611.382(a)-(b)
5. Chlorine (MRDL)	2	611.313(a)	3	611.382(a), (c)
6. Chloramine (MRDL)	2	611.313(a)	3	611.382(a), (c)
7. Chlorine dioxide (MRDL), where any two consecutive daily samples at entrance to distribution system only are above MRDL	2	611.313(a), 611.383(c)(3)	2 ¹² , 3	611.382(a), (c), 611.383(c)(2)
8. Chlorine dioxide (MRDL), where samples in distribution system the next day are also above MRDL	¹³ 1	611.313(a), 611.383(c)(3)	1	611.382(a), (c), 611.383(c)(2)
9. Control of DBP precursors – TOC (TT)	2	611.385(a)-(b)	3	611.382(a), (d)
10. Benchmarking and disinfection profiling	N/A	N/A	3	611.742, 611.953, 611.954
11. Development of monitoring plan	N/A	N/A	3	611.382(f)

H. Other Treatment Techniques

1. Acrylamide (TT)	2	611.296	N/A	N/A
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2. Epichlorohydrin (TT)	2	611.296	N/A	N/A
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II. Unregulated Contaminant Monitoring:¹⁴

A. Unregulated contaminants	N/A	N/A	3	611.510
B. Nickel	N/A	N/A	3	611.603, 611.611

III. Public Notification for Relief Equivalent to a SDWA section 1415 Variance or a section 1416 Exemption.

A. Operation under relief equivalent to a SDWA section 1415 variance or a section 1416 exemption	3	¹⁵ 1415, 1416	N/A	N/A
B. Violation of conditions of relief equivalent to a SDWA section 1415 variance or a section 1416 exemption	2	1415, 1416, ¹⁶ 611.111, 611.112	N/A	N/A

IV. Other Situations Requiring Public Notification.

A. Fluoride secondary maximum contaminant level (SMCL) exceedence	3	611.858	N/A	N/A
B. Exceedence of nitrate MCL for a non-CWS supplier, as allowed by the Agency	1	611.300(d)	N/A	N/A
C. Availability of unregulated contaminant monitoring data	3	611.510	N/A	N/A
D. Waterborne disease outbreak	1	611.101, 611.233(b)(2)	N/A	N/A
E. Other waterborne emergency ¹⁷	1	N/A	N/A	N/A
F. Source water sample positive for Groundwater Rule fecal indicators: E. coli, enterococci, or coliphage	1	611.802(g)	N/A	N/A
G. Other situations as determined by the Agency by a SEP issued pursuant to Section 611.110	¹⁸ 1, 2, 3	N/A	N/A	N/A

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Appendix G – Endnotes

1. Violations and other situations not listed in this table (e.g., failure to prepare Consumer Confidence Reports) do not require notice, unless otherwise determined by the Agency by a SEP issued pursuant to Section 611.110. The Agency may, by a SEP issued pursuant to Section 611.110, further require a more stringent public notice tier (e.g., Tier 1 instead of Tier 2 or Tier 2 instead of Tier 3) for specific violations and situations listed in this Appendix, as authorized under Sections 611.902(a) and 611.903(a).
2. Definition of the abbreviations used: "MCL" means maximum contaminant level, "MRDL" means maximum residual disinfectant level, and "TT" means treatment technique.
3. The term "violations of National Primary Drinking Water Regulations (NPDWR)" is used here to include violations of MCL, MRDL, treatment technique, monitoring, and testing procedure requirements.
4. Failure to test for fecal coliform or E. coli is a Tier 1 violation if testing is not done after any repeat sample tests positive for coliform. All other total coliform monitoring and testing procedure violations are Tier 3 violations.
5. A supplier that violates the turbidity MCL of 5 NTU based on an average of measurements over two consecutive days must consult with the Agency within 24 hours after learning of the violation. Based on this consultation, the Agency may subsequently decide to issue a SEP pursuant to Section 611.110 that elevates the violation to a Tier 1 violation. If a supplier is unable to make contact with the Agency in the 24-hour period, the violation is automatically elevated to a Tier 1 violation.
6. A supplier with a treatment technique violation involving a single exceedence of a maximum turbidity limit under the Surface Water Treatment Rule (SWTR), the Interim Enhanced Surface Water Treatment Rule (IESWTR), or the Long Term 1 Enhanced Surface Water Treatment Rule are required to consult with the Agency within 24 hours after learning of the violation. Based on this consultation, the Agency may subsequently decide to issue a SEP pursuant to Section 611.110 that elevates the violation to a Tier 1 violation. If a supplier is unable to make contact with the Agency in the 24-hour period, the violation is automatically elevated to a Tier 1 violation.
7. The Surface Water Treatment Rule (SWTR) remains in effect for a supplier that serves at

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least 10,000 persons ; the Interim Enhanced Surface Water Treatment Rule adds additional requirements and does not in many cases supercede the SWTR.

8. Failure to take a confirmation sample within 24 hours for nitrate or nitrite after an initial sample exceeds the MCL is a Tier 1 violation. Other monitoring violations for nitrate are Tier 3.
9. Failure to take a confirmation sample within 24 hours for nitrate or nitrite after an initial sample exceeds the MCL is a Tier 1 violation. Other monitoring violations for nitrate are Tier 3.
10. A Subpart B community or non-transient non-community system supplier must comply with new DBP MCLs, disinfectant MRDLs, and related monitoring requirements. A Subpart B transient non-community system supplier that serves 10,000 or more persons that uses chlorine dioxide as a disinfectant or oxidant or a Subpart B transient non-community system supplier that serves fewer than 10,000 persons, which uses only groundwater not under the direct influence of surface water, and which uses chlorine dioxide as a disinfectant or oxidant must comply with the chlorine dioxide MRDL.
11. Sections 611.312(b)(1) and 611.382(a) and (b) apply until Subpart Y of this Part takes effect under the schedule set forth in Section 611.970(c).
12. Failure to monitor for chlorine dioxide at the entrance to the distribution system the day after exceeding the MRDL at the entrance to the distribution system is a Tier 2 violation.
13. If any daily sample taken at the entrance to the distribution system exceeds the MRDL for chlorine dioxide and one or more samples taken in the distribution system the next day exceed the MRDL, Tier 1 notification is required. A failure to take the required samples in the distribution system after the MRDL is exceeded at the entry point also triggers Tier 1 notification.
14. Some water suppliers must monitor for certain unregulated contaminants listed in Section 611.510.
15. This citation refers to sections 1415 and 1416 of the federal Safe Drinking Water Act. sections 1415 and 1416 require that "a schedule prescribed...for a public water system granted relief equivalent to a SDWA section 1415 variance or a section 1416 exemption

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must require compliance by the system...."

16. In addition to sections 1415 and 1416 of the federal Safe Drinking Water Act, 40 CFR 142.307 specifies the items and schedule milestones that must be included in relief equivalent to a SDWA section 1415 small system variance. In granting any form of relief from an NPDWR, the Board will consider all applicable federal requirements for and limitations on the State's ability to grant relief consistent with federal law.
17. Other waterborne emergencies require a Tier 1 public notice under Section 611.902(a) for situations that do not meet the definition of a waterborne disease outbreak given in Section 611.101, but which still have the potential to have serious adverse effects on health as a result of short-term exposure. These could include outbreaks not related to treatment deficiencies, as well as situations that have the potential to cause outbreaks, such as failures or significant interruption in water treatment processes, natural disasters that disrupt the water supply or distribution system, chemical spills, or unexpected loading of possible pathogens into the source water.
18. The Agency may place any other situation in any tier it deems appropriate in writing, based on the prospective threat which it determines that the situation poses to public health, and subject to Board review pursuant to Section 40 of the Act [415 ILCS 5/40].
19. A failure to collect three or more samples for Cryptosporidium analysis is a Tier 2 violation requiring special notice, as specified in Section 611.911. All other monitoring and testing procedure violations are Tier 3.

| BOARD NOTE: Derived from Appendix A to Subpart Q to 40 CFR 141 ~~(2012)~~(2013).

(Source: Amended at 38 Ill. Reg. _____, effective _____)

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Section 611.APPENDIX H Standard Health Effects Language for Public Notification

Contaminant	MCLG ¹ mg/ℓ	MCL ² mg/ℓ	Standard health effects language for public notification
National Primary Drinking Water Regulations (NPDWR):			
A. Microbiological Contaminants			
1a. Total coliform, <u>until March 31, 2016</u>	Zero	See footnote 3	Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.
1b. Fecal coliform/E. coli, <u>until March 31, 2016</u>	Zero	Zero	Fecal coliforms and E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
1c. Fecal indicators (GWR): i. E. coli ii. enterococci iii. coliphage	Zero None None	TT TT TT	Fecal indicators are microbes whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these wastes can cause short-term health effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.

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1d. Groundwater Rule TT violations	None	TT	Inadequately treated or inadequately protected water may contain disease-causing organisms. These organisms can cause symptoms such as diarrhea, nausea, cramps, and associated headaches.
<u>1e. Subpart Y Coliform Assessment and/or Corrective Action Violations, beginning April 1, 2016</u>	<u>N/A</u>	<u>TT</u>	<u>Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. We found coliforms indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessments to identify problems and to correct any problems that are found. (The system must use the following applicable sentences:)</u> <u>We failed to conduct the required assessment.</u> <u>We failed to correct all identified sanitary defects that were found during the assessment(s).</u>

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<p><u>1f. Subpart Y E. coli Assessment and/or Corrective Action Violations, beginning April 1, 2016</u></p>	<p><u>N/A</u></p>	<p><u>TT</u></p>	<p><u>E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a greater health risk for infants, young children, the elderly, and people with severely compromised immune systems. We violated the standard for E. coli, indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct a detailed assessment to identify problems and to correct any problems that are found. (The system must use the following applicable sentences:)</u> <u>We failed to conduct the required assessment.</u> <u>We failed to correct all identified sanitary defects that were found during the assessment that we conducted.</u></p>
<p><u>1g. E. coli, beginning April 1, 2016</u></p>	<p><u>Zero</u></p>	<p><u>See footnote 22</u></p>	<p><u>E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a greater health risk for infants, young children, the elderly, and people with severely compromised immune systems.</u></p>

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<p><u>1h. Subpart Y Seasonal System TT Violations, beginning April 1, 2016</u></p>	<p><u>N/A</u></p>	<p><u>TT</u></p>	<p><u>When this violation includes the failure to monitor for total coliforms or E. coli prior to serving water to the public, the mandatory language found at Section 141.205(d)(2) must be used. When this violation includes failure to complete other actions, the appropriate elements found in Section 141.205(a) to describe the violation must be used.</u></p>
<p>2a. Turbidity (MCL) ⁴</p>	<p>None</p>	<p>1 NTU ⁵/5 NTU</p>	<p>Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.</p>
<p>2b. Turbidity (SWTR TT)</p>	<p>None</p>	<p>TT ⁷</p>	<p>Turbidity has no health effects. However, ⁶ turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.</p>

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2c. Turbidity (IESWTR TT and LT1ESWTR TT)	None	TT	Turbidity has no health effects. However, ⁸ turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.
B. Surface Water Treatment Rule (SWTR), Interim Enhanced Surface Water Treatment Rule (IESWTR), Long Term 1 Enhanced Surface Water Treatment Rule (LT1ESWTR), and Filter Backwash Recycling Rule (FBRR) violations:			
3. Giardia lamblia (SWTR/IESWTR/LT1ESWTR)	Zero	TT ¹⁰	Inadequately treated water may contain disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.
4. Viruses (SWTR/IESWTR/LT1ESWTR)			Inadequately treated water may contain disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.
5. Heterotrophic plate count (HPC) bacteria ⁹ (SWTR/IESWTR/LT1ESWTR)			Inadequately treated water may contain disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.
6. Legionella (SWTR/IESWTR/LT1ESWTR)			Inadequately treated water may contain disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

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7. Cryptosporidium (IESWTR/FBRR/LT1ESWTR)			Inadequately treated water may contain disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.
C. Inorganic Chemicals (IOCs)			
8. Antimony	0.006	0.006	Some people who drink water containing antimony well in excess of the MCL over many years could experience increases in blood cholesterol and decreases in blood sugar.
9. Arsenic ¹¹	0	0.010	Some people who drink water containing arsenic in excess of the MCL over many years could experience skin damage or problems with their circulatory system, and may have an increased risk of getting cancer.
10. Asbestos (10 µm)	7 MFL ¹¹	7 MFL	Some people who drink water containing asbestos in excess of the MCL over many years may have an increased risk of developing benign intestinal polyps.
11. Barium	2	2	Some people who drink water containing barium in excess of the MCL over many years could experience an increase in their blood pressure.
12. Beryllium	0.004	0.004	Some people who drink water containing beryllium well in excess of the MCL over many years could develop intestinal lesions.
13. Cadmium	0.005	0.005	Some people who drink water containing cadmium in excess of the MCL over many years could experience kidney damage.

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14. Chromium (total)	0.1	0.1	Some people who use water containing chromium well in excess of the MCL over many years could experience allergic dermatitis.
15. Cyanide	0.2	0.2	Some people who drink water containing cyanide well in excess of the MCL over many years could experience nerve damage or problems with their thyroid.
16. Fluoride	4.0	4.0	Some people who drink water containing fluoride in excess of the MCL over many years could get bone disease, including pain and tenderness of the bones. Fluoride in drinking water at half the MCL or more may cause mottling of children's teeth, usually in children less than nine years old. Mottling, also known as dental fluorosis, may include brown staining or pitting of the teeth, and occurs only in developing teeth before they erupt from the gums.
17. Mercury (inorganic)	0.002	0.002	Some people who drink water containing inorganic mercury well in excess of the MCL over many years could experience kidney damage.
18. Nitrate	10	10	Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue baby syndrome.

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19. Nitrite	1	1	Infants below the age of six months who drink water containing nitrite in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue baby syndrome.
20. Total Nitrate and Nitrite	10	10	Infants below the age of six months who drink water containing nitrate and nitrite in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue baby syndrome.
21. Selenium	0.05	0.05	Selenium is an essential nutrient. However, some people who drink water containing selenium in excess of the MCL over many years could experience hair or fingernail losses, numbness in fingers or toes, or problems with their circulation.
22. Thallium	0.0005	0.002	Some people who drink water containing thallium in excess of the MCL over many years could experience hair loss, changes in their blood, or problems with their kidneys, intestines, or liver.
D. Lead and Copper Rule			
23. Lead	Zero	TT ¹²	Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.

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24. Copper	1.3	TT ¹³	Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor.
E. Synthetic Organic Chemicals (SOCs)			
25. 2,4-D	0.07	0.07	Some people who drink water containing the weed killer 2,4-D well in excess of the MCL over many years could experience problems with their kidneys, liver, or adrenal glands.
26. 2,4,5-TP (silvex)	0.05	0.05	Some people who drink water containing silvex in excess of the MCL over many years could experience liver problems.
27. Alachlor	Zero	0.002	Some people who drink water containing alachlor in excess of the MCL over many years could have problems with their eyes, liver, kidneys, or spleen, or experience anemia, and may have an increased risk of getting cancer.
28. Atrazine	0.003	0.003	Some people who drink water containing atrazine well in excess of the MCL over many years could experience problems with their cardiovascular system or reproductive difficulties.

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29. Benzo(a)pyrene (PAHs).	Zero	0.0002	Some people who drink water containing benzo(a)pyrene in excess of the MCL over many years may experience reproductive difficulties and may have an increased risk of getting cancer.
30. Carbofuran	0.04	0.04	Some people who drink water containing carbofuran in excess of the MCL over many years could experience problems with their blood, or nervous or reproductive systems.
31. Chlordane	Zero	0.002	Some people who drink water containing chlordane in excess of the MCL over many years could experience problems with their liver or nervous system, and may have an increased risk of getting cancer.
32. Dalapon	0.2	0.2	Some people who drink water containing dalapon well in excess of the MCL over many years could experience minor kidney changes.
33. Di(2-ethylhexyl)adipate	0.4	0.4	Some people who drink water containing di(2-ethylhexyl)adipate well in excess of the MCL over many years could experience toxic effects, such as weight loss, liver enlargement, or possible reproductive difficulties.
34. Di(2-ethylhexyl) phthalate	Zero	0.006	Some people who drink water containing di(2-ethylhexyl) phthalate well in excess of the MCL over many years may have problems with their liver or experience reproductive difficulties, and they may have an increased risk of getting cancer.

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35. Dibromochloropropane (DBCP)	Zero	0.0002	Some people who drink water containing DBCP in excess of the MCL over many years could experience reproductive difficulties and may have an increased risk of getting cancer.
36. Dinoseb	0.007	0.007	Some people who drink water containing dinoseb well in excess of the MCL over many years could experience reproductive difficulties.
37. Dioxin (2,3,7,8-TCDD)	Zero	3×10^{-8}	Some people who drink water containing dioxin in excess of the MCL over many years could experience reproductive difficulties and may have an increased risk of getting cancer.
38. Diquat	0.02	0.02	Some people who drink water containing diquat in excess of the MCL over many years could get cataracts.
39. Endothall	0.1	0.1	Some people who drink water containing endothall in excess of the MCL over many years could experience problems with their stomach or intestines.
40. Endrin	0.002	0.002	Some people who drink water containing endrin in excess of the MCL over many years could experience liver problems.
41. Ethylene dibromide	Zero	0.00005	Some people who drink water containing ethylene dibromide in excess of the MCL over many years could experience problems with their liver, stomach, reproductive system, or kidneys, and may have an increased risk of getting cancer.

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42. Glyphosate	0.7	0.7	Some people who drink water containing glyphosate in excess of the MCL over many years could experience problems with their kidneys or reproductive difficulties.
43. Heptachlor	Zero	0.0004	Some people who drink water containing heptachlor in excess of the MCL over many years could experience liver damage and may have an increased risk of getting cancer.
44. Heptachlor epoxide	Zero	0.0002	Some people who drink water containing heptachlor epoxide in excess of the MCL over many years could experience liver damage, and may have an increased risk of getting cancer.
45. Hexachlorobenzene	Zero	0.001	Some people who drink water containing hexachlorobenzene in excess of the MCL over many years could experience problems with their liver or kidneys, or adverse reproductive effects, and may have an increased risk of getting cancer.
46. Hexachlorocyclopentadiene	0.05	0.05	Some people who drink water containing hexachlorocyclopentadiene well in excess of the MCL over many years could experience problems with their kidneys or stomach.
47. Lindane	0.0002	0.0002	Some people who drink water containing lindane in excess of the MCL over many years could experience problems with their kidneys or liver.

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48. Methoxychlor	0.04	0.04	Some people who drink water containing methoxychlor in excess of the MCL over many years could experience reproductive difficulties.
49. Oxamyl (Vydate)	0.2	0.2	Some people who drink water containing oxamyl in excess of the MCL over many years could experience slight nervous system effects.
50. Pentachlorophenol	Zero	0.001	Some people who drink water containing pentachlorophenol in excess of the MCL over many years could experience problems with their liver or kidneys, and may have an increased risk of getting cancer.
51. Picloram	0.5	0.5	Some people who drink water containing picloram in excess of the MCL over many years could experience problems with their liver.
52. Polychlorinated biphenyls (PCBs)	Zero	0.0005	Some people who drink water containing PCBs in excess of the MCL over many years could experience changes in their skin, problems with their thymus gland, immune deficiencies, or reproductive or nervous system difficulties, and may have an increased risk of getting cancer.
53. Simazine	0.004	0.004	Some people who drink water containing simazine in excess of the MCL over many years could experience problems with their blood.

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54. Toxaphene	Zero	0.003	Some people who drink water containing toxaphene in excess of the MCL over many years could have problems with their kidneys, liver, or thyroid, and may have an increased risk of getting cancer.
F. Volatile Organic Chemicals (VOCs)			
55. Benzene	Zero	0.005	Some people who drink water containing benzene in excess of the MCL over many years could experience anemia or a decrease in blood platelets, and may have an increased risk of getting cancer.
56. Carbon tetrachloride	Zero	0.005	Some people who drink water containing carbon tetrachloride in excess of the MCL over many years could experience problems with their liver and may have an increased risk of getting cancer.
57. Chlorobenzene (monochlorobenzene)	0.1	0.1	Some people who drink water containing chlorobenzene in excess of the MCL over many years could experience problems with their liver or kidneys.
58. o-Dichlorobenzene	0.6	0.6	Some people who drink water containing o-dichlorobenzene well in excess of the MCL over many years could experience problems with their liver, kidneys, or circulatory systems.
59. p-Dichlorobenzene	0.075	0.075	Some people who drink water containing p-dichlorobenzene in excess of the MCL over many years could experience anemia, damage to their liver, kidneys, or spleen, or changes in their blood.

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60. 1,2-Dichloroethane	Zero	0.005	Some people who drink water containing 1,2-dichloroethane in excess of the MCL over many years may have an increased risk of getting cancer.
61. 1,1-Dichloroethylene	0.007	0.007	Some people who drink water containing 1,1-dichloroethylene in excess of the MCL over many years could experience problems with their liver.
62. cis-1,2-Dichloroethylene	0.07	0.07	Some people who drink water containing cis-1,2-dichloroethylene in excess of the MCL over many years could experience problems with their liver.
63. trans-1,2-Dichloroethylene	0.1	0.1	Some people who drink water containing trans-1,2-dichloroethylene well in excess of the MCL over many years could experience problems with their liver.
64. Dichloromethane	Zero	0.005	Some people who drink water containing dichloromethane in excess of the MCL over many years could have liver problems and may have an increased risk of getting cancer.
65. 1,2-Dichloropropane	Zero	0.005	Some people who drink water containing 1,2-dichloropropane in excess of the MCL over many years may have an increased risk of getting cancer.
66. Ethylbenzene	0.7	0.7	Some people who drink water containing ethylbenzene well in excess of the MCL over many years could experience problems with their liver or kidneys.

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67. Styrene	0.1	0.1	Some people who drink water containing styrene well in excess of the MCL over many years could have problems with their liver, kidneys, or circulatory system.
68. Tetrachloroethylene	Zero	0.005	Some people who drink water containing tetrachloroethylene in excess of the MCL over many years could have problems with their liver, and may have an increased risk of getting cancer.
69. Toluene	1	1	Some people who drink water containing toluene well in excess of the MCL over many years could have problems with their nervous system, kidneys, or liver.
70. 1,2,4-Trichlorobenzene	0.07	0.07	Some people who drink water containing 1,2,4-trichlorobenzene well in excess of the MCL over many years could experience changes in their adrenal glands.
71. 1,1,1-Trichloroethane	0.2	0.2	Some people who drink water containing 1,1,1-trichloroethane in excess of the MCL over many years could experience problems with their liver, nervous system, or circulatory system.
72. 1,1,2-Trichloroethane	0.003	0.005	Some people who drink water containing 1,1,2-trichloroethane well in excess of the MCL over many years could have problems with their liver, kidneys, or immune systems.
73. Trichloroethylene	Zero	0.005	Some people who drink water containing trichloroethylene in excess of the MCL over many years could experience problems with their liver and may have an increased risk of getting cancer.

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74. Vinyl chloride	Zero	0.002	Some people who drink water containing vinyl chloride in excess of the MCL over many years may have an increased risk of getting cancer.
75. Xylenes (total)	10	10	Some people who drink water containing xylenes in excess of the MCL over many years could experience damage to their nervous system.
G. Radioactive Contaminants			
76. Beta/photon emitters	Zero	4 mrem/yr ¹⁴	Certain minerals are radioactive and may emit forms of radiation known as photons and beta radiation. Some people who drink water containing beta and photon emitters in excess of the MCL over many years may have an increased risk of getting cancer.
77. Alpha emitters	Zero	15 pCi/ℓ ¹⁵	Certain minerals are radioactive and may emit a form of radiation known as alpha radiation. Some people who drink water containing alpha emitters in excess of the MCL over many years may have an increased risk of getting cancer.
78. Combined radium (226 & 228)	Zero	5 pCi/ℓ	Some people who drink water containing radium 226 or 228 in excess of the MCL over many years may have an increased risk of getting cancer.
79. Uranium	Zero	30 µg/ℓ	Some people who drink water containing uranium in excess of the MCL over many years may have an increased risk of getting cancer and kidney toxicity.

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H. Disinfection Byproducts (DBPs), Byproduct Precursors, and Disinfectant Residuals: Where disinfection is used in the treatment of drinking water, disinfectants combine with organic and inorganic matter present in water to form chemicals called disinfection byproducts (DBPs). USEPA sets standards for controlling the levels of disinfectants and DBPs in drinking water, including trihalomethanes (THMs) and haloacetic acids (HAA5) ¹⁶			
80. Total trihalomethanes (TTHMs)	N/A	0.080 ^{17,18}	Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system, and may have an increased risk of getting cancer.
81. Haloacetic Acids (HAA5)	N/A	0.060 ¹⁹	Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.
82. Bromate	Zero	0.010	Some people who drink water containing bromate in excess of the MCL over many years may have an increased risk of getting cancer.
83. Chlorite	0.08	1.0	Some infants and young children who drink water containing chlorite in excess of the MCL could experience nervous system effects. Similar effects may occur in fetuses of pregnant women who drink water containing chlorite in excess of the MCL. Some people may experience anemia.

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84. Chlorine	4 (MRDLG) ²⁰	4.0 (MRDL) ²¹	Some people who use water containing chlorine well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chlorine well in excess of the MRDL could experience stomach discomfort.
85. Chloramines	4 (MRDLG)	4.0 (MRDL)	Some people who use water containing chloramines well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chloramines well in excess of the MRDL could experience stomach discomfort or anemia.

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<p>85a. Chlorine dioxide, where any two consecutive daily samples taken at the entrance to the distribution system are above the MRDL</p>	<p>0.8 (MRDLG)</p>	<p>0.8 (MRDL)</p>	<p>Some infants and young children who drink water containing chlorine dioxide in excess of the MRDL could experience nervous system effects. Similar effects may occur in fetuses of pregnant women who drink water containing chlorine dioxide in excess of the MRDL. Some people may experience anemia.</p> <p>Add for public notification only: The chlorine dioxide violations reported today are the result of exceedences at the treatment facility only, not within the distribution system that delivers water to consumers. Continued compliance with chlorine dioxide levels within the distribution system minimizes the potential risk of these violations to consumers.</p>
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86a. Chlorine dioxide, where one or more distribution system samples are above the MRDL	0.8 (MRDLG)	0.8 (MRDL)	<p>Some infants and young children who drink water containing chlorine dioxide in excess of the MRDL could experience nervous system effects. Similar effects may occur in fetuses of pregnant women who drink water containing chlorine dioxide in excess of the MRDL. Some people may experience anemia.</p> <p>Add for public notification only: The chlorine dioxide violations reported today include exceedences of the USEPA standard within the distribution system that delivers water to consumers. Violations of the chlorine dioxide standard within the distribution system may harm human health based on short-term exposures. Certain groups, including fetuses, infants, and young children, may be especially susceptible to nervous system effects from excessive chlorine dioxide exposure.</p>
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87. Control of DBP precursors (TOC)	None	TT	Total organic carbon (TOC) has no health effects. However, total organic carbon provides a medium for the formation of disinfection byproducts. These byproducts include trihalomethanes (THMs) and haloacetic acids (HAAs). Drinking water containing these byproducts in excess of the MCL may lead to adverse health effects, liver or kidney problems, or nervous system effects, and may lead to an increased risk of getting cancer.
I. Other Treatment Techniques:			
88. Acrylamide	Zero	TT	Some people who drink water containing high levels of acrylamide over a long period of time could have problems with their nervous system or blood, and may have an increased risk of getting cancer.
89. Epichlorohydrin	Zero	TT	Some people who drink water containing high levels of epichlorohydrin over a long period of time could experience stomach problems, and may have an increased risk of getting cancer.

Appendix H – Endnotes

1. "MCLG" means maximum contaminant level goal.
2. "MCL" means maximum contaminant level.
3. For a water supplier analyzing at least 40 samples per month, no more than 5.0 percent of the monthly samples may be positive for total coliforms. For a supplier analyzing fewer

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than 40 samples per month, no more than one sample per month may be positive for total coliforms.

4. There are various regulations that set turbidity standards for different types of systems, including Section 611.320, the 1989 Surface Water Treatment Rule (SWTR), the 1998 Interim Enhanced Surface Water Treatment Rule (IESWTR), and the 2002 Long Term 1 Enhanced Surface Water Treatment Rule (LT1ESWTR). The MCL for the monthly turbidity average is 1 NTU; the MCL for the 2-day average is 5 NTU for a supplier that is required to filter but has not yet installed filtration (Section 611.320).
5. "NTU" means nephelometric turbidity unit.
6. There are various regulations that set turbidity standards for different types of systems, including Section 611.320, the 1989 SWTR, the 1998 IESWTR, and the 2002 LT1ESWTR. A supplier subject to the SWTR (both filtered and unfiltered) may not exceed 5 NTU. In addition, in filtered systems, 95 percent of samples each month must not exceed 0.5 NTU in systems using conventional or direct filtration and must not exceed 1 NTU in systems using slow sand or diatomaceous earth filtration or other filtration technologies approved by the Agency.
7. "TT" means treatment technique.
8. There are various regulations that set turbidity standards for different types of systems, including Section 611.320, the 1989 SWTR, the 1998 IESWTR, and the 2002 LT1ESWTR. For a supplier subject to the IESWTR (a supplier that serves at least 10,000 people, using surface water or groundwater under the direct influence of surface water), that use conventional filtration or direct filtration, the turbidity level of a system's combined filter effluent may not exceed 0.3 NTU in at least 95 percent of monthly measurements, and the turbidity level of a system's combined filter effluent must not exceed 1 NTU at any time. A supplier subject to the IESWTR using technologies other than conventional, direct, slow sand, or diatomaceous earth filtration must meet turbidity limits set by the Agency. For a supplier subject to the LT1ESWTR (a supplier that serves fewer than 10,000 people, using surface water or groundwater under the direct influence of surface water) that uses conventional filtration or direct filtration, after January 1, 2005, the turbidity level of the supplier's combined filter effluent may not exceed 0.3 NTU in at least 95 percent of monthly measurements, and the turbidity level of the supplier's combined filter effluent must not exceed 1 NTU at any time. A supplier subject to the LT1ESWTR using technologies other than conventional, direct, slow sand, or diatomaceous earth filtration must meet turbidity limits set by the Agency.

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9. The bacteria detected by heterotrophic plate count (HPC) are not necessarily harmful. HPC is simply an alternative method of determining disinfectant residual levels. The number of such bacteria is an indicator of whether there is enough disinfectant in the distribution system.
10. SWTR, IESWTR, and LT1ESWTR treatment technique violations that involve turbidity exceedences may use the health effects language for turbidity instead.
11. Millions of fibers per liter.
12. Action Level = 0.015 mg/ℓ.
13. Action Level = 1.3 mg/ℓ.
14. Millirems per year.
15. Picocuries per liter.
16. A surface water system supplier or a groundwater system supplier under the direct influence of surface water is regulated under Subpart B of this Part. A Subpart B community water system supplier or a non-transient non-community system supplier must comply with Subpart I DBP MCLs and disinfectant maximum residual disinfectant levels (MRDLs). A Subpart B transient non-community system supplier that uses chlorine dioxide as a disinfectant or oxidant must comply with the chlorine dioxide MRDL.
17. Community and non-transient non-community systems must comply with Subpart Y TTHM and HAA5 MCLs of 0.080 mg/ℓ and 0.060 mg/ℓ, respectively (with compliance calculated as a locational running annual average) on the schedule in Section 611.970.
18. The MCL for total trihalomethanes is the sum of the concentrations of the individual trihalomethanes.
19. The MCL for haloacetic acids is the sum of the concentrations of the individual haloacetic acids.
20. "MRDLG" means maximum residual disinfectant level goal.

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21. "MRDL" means maximum residual disinfectant level.

22. The supplier is in compliance unless one of the following conditions occurs: (1) the supplier's system has an E. coli-positive repeat sample following a total coliform-positive routine sample; (2) the supplier's system has a total coliform-positive repeat sample following an E. coli-positive routine sample; (3) the supplier fails to take all required repeat samples following an E. coli-positive routine sample; or (4) the supplier fails to test for E. coli when any repeat sample tests positive for total coliform.

BOARD NOTE: Derived from appendix B to subpart Q to 40 CFR 141 ~~(2013)~~(2012).

(Source: Amended at 38 Ill. Reg. _____, effective _____)

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Section 611.TABLE Z Federal Effective Dates

The following are the effective dates of the various federal NPDWRs:

Fluoride (40 CFR 141.62(b)(1)) (corresponding with Section 611.301(b))	October 2, 1987
Phase I VOCs (40 CFR 141.61(a) through (a)(8)) (corresponding with Section 611.311(a)) (benzene, carbon tetrachloride, p-dichlorobenzene, 1,2-dichloroethane, 1,1-dichloroethylene, 1,1,1-trichloroethane, trichloroethylene, and vinyl chloride)	January 9, 1989
<u>Total Coliforms Rule (40 CFR 141.21 & 141.63)</u> <u>(corresponding with Sections 611.521-611.527 & 611.325)</u> <u>(total coliforms, fecal coliforms, and E. coli)</u>	<u>December 31, 1990</u>
<u>Surface Water Treatment Rule (40 CFR 141, subpart H)</u> <u>(corresponding with Subpart B of this Part)</u> <u>(filtration, disinfection, and turbidity)</u>	<u>Effective: December 31, 1990</u> <u>Compliance: December 31, 1991</u>
Lead and Copper (40 CFR 141, subpart I) (corresponding with Subpart G of this Part) (lead and copper monitoring, reporting, and recordkeeping requirements of 40 CFR 141.86 through 141.91)	July 7, 1991
Phase II IOCs (40 CFR 141.62(b)(2) and (b)(4) through (b)(10)) (corresponding with Section 611.301(b)) (asbestos, cadmium, chromium, mercury, nitrate, nitrite, and selenium)	July 30, 1992
Phase II VOCs (40 CFR 141.61(a)(9) through (a)(18)) (o-dichlorobenzene, cis-1,2-dichloroethylene, trans-1,2-dichloroethylene, 1,2-dichloropropane, ethylbenzene, monochlorobenzene, styrene, tetrachloroethylene, toluene, and xylenes (total))	July 30, 1992

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- Phase II SOCs (40 CFR 141.61(c)(1) through (c)(18))
(alachlor, atrazine, carbofuran, chlordane,
dibromochloropropane, ethylene dibromide, heptachlor,
heptachlor epoxide, lindane, methoxychlor, polychlorinated
biphenyls, toxaphene, 2,4-D, and 2,4,5-TP (silvex)) July 30, 1992
- Phase V SOC (40 CFR 141.61(c)(3))
(corresponding with Section 611.311(c)) (endrin) August 17, 1992
- Lead and Copper (40 CFR 141, subpart I)
(corresponding with Subpart G of this Part)
(lead and copper corrosion control, water treatment, public
education, and lead service line replacement requirements of
40 CFR 141.81 through 141.85) December 7, 1992
- Phase IIB IOC (40 CFR 141.62(b)(3))
(corresponding with Section 611.301(b))
(barium) January 1, 1993
- Phase IIB SOCs (40 CFR 141.61(a)(9) through (a)(18))
(corresponding with Section 611.311(c))
(aldicarb, aldicarb sulfone, aldicarb sulfoxide, and
pentachlorophenol. See the Board note appended to Section
611.311(c) for information relating to implementation of
requirements relating to aldicarb, aldicarb sulfone, and
aldicarb sulfoxide.) January 1, 1993
- Phase V IOCs (40 CFR 141.62(b)(11) through (b)(15))
(corresponding with Section 611.301(b))
(antimony, beryllium, cyanide, nickel, and thallium) January 17, 1994
- Phase V VOCs (40 CFR 141.61(b)(19) through (b)(21))
(corresponding with Section 611.311(a))
(dichloromethane, 1,2,4-trichlorobenzene, and 1,1,2-
trichloroethane) January 17, 1994
- Phase V SOCs (40 CFR 141.61(c)(19) through (c)(25))
(corresponding with Section 611.311(c))
(benzo(a)pyrene, dalapon, di(2-ethylhexyl)adipate, di(2-
ethylhexyl)phthalate dinoseb, diquat, endothall, endrin,
glyphosate, hexachlorobenzene, hexachlorocyclopentadiene,
oxamyl, picloram, simazine, and 2,3,7,8-TCDD) January 17, 1994

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- Consumer Confidence Report Rule (40 CFR 141, subpart Q) September 18, 1998
(corresponding with Subpart O of this Part)
(notification to public of drinking water quality)
- Interim Enhanced Surface Water Treatment Rule (40 CFR 141, February 16, 1999
subpart P)
(corresponding with Subpart R of this Part)
(applicable to suppliers providing water to fewer than 10,000
persons)
(Giardia lamblia, viruses, heterotrophic plate count bacteria,
Legionella, Cryptosporidium, and turbidity)
- Public Notification Rule (40 CFR 141, subpart Q) June 5, 2000
(corresponding with Subpart V of this Part)
(notification to public of NPDWR violations, variances or
exemptions, or other situations that could bear on public
health)
- Filter Backwash Rule (40 CFR 141.76) August 7, 2001
(corresponding with Section 611.276)
(reuse of spent filter backwash water, thickener supernatant,
or liquids from dewatering processes)
- Disinfection/Disinfectant Byproducts Rule (40 CFR 141.64, December 16, 2001
141.65 & 141, subpart L) December 16, 2003
Smaller Systems (serving 10,000 or fewer persons)
Larger Systems (serving more than 10,000 persons)
(corresponding with Sections 611.312 & 611.313)
(total trihalomethanes, haloacetic acids (five), bromate,
chlorite, chlorine, chloramines, and chlorine dioxide)
- Long Term 1 Enhanced Surface Water Treatment Rule (40 CFR February 13, 2002
141, Subpart T)
(corresponding with Subpart X of this Part)
(applicable to suppliers providing water to 10,000 or more
persons)
(Giardia lamblia, viruses, heterotrophic plate count bacteria,
Legionella, Cryptosporidium, and turbidity)

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Radionuclides (40 CFR 141.66) (corresponding with Section 611.330) (combined radium (Ra-226 + Ra-228), gross alpha particle activity, beta particle and photon activity, and uranium)	December 8, 2003
Arsenic (40 CFR 141.62(b)(16)) (corresponding with Section 611.301(b)) (arsenic)	January 23, 2006
Stage 2 Disinfection/Disinfectant Byproducts Rule (40 CFR 141, subparts U & V)	
Systems that serve fewer than 10,000 persons	
Submit plan	April 1, 2008
Complete monitoring or study	March 31, 2010
Submit IDSE report	July 1, 2010
Compliance with monitoring requirements	
If no Cryptosporidium monitoring is required	October 1, 2013
If Cryptosporidium monitoring is required	October 1, 2014
Systems that serve 10,000 to 49,999 persons	
Submit plan	October 1, 2007
Complete monitoring or study	September 30, 2009
Submit IDSE report	January 1, 2010
Compliance with monitoring requirements	October 1, 2013
Systems that serve 50,000 to 99,999 persons	
Submit plan	April 1, 2007
Complete monitoring or study	March 31, 2009
Submit IDSE report	July 1, 2009
Compliance with monitoring requirements	October 1, 2012
Systems that serve 100,000 or more persons	
Submit plan	October 1, 2006
Complete monitoring or study	September 30, 2008
Submit IDSE report	January 1, 2009
Compliance with monitoring requirements	April 1, 2012
(corresponding with Subparts W & Y of this Part) (total trihalomethanes and haloacetic acids (five))	
Long Term 2 Enhanced Surface Water Treatment Rule (40 CFR 141, subpart W)	
Systems that serve fewer than 10,000 persons	
And which monitor for E. coli	
Begin first round of monitoring	October 1, 2008

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Begin treatment for Cryptosporidium	October 1, 2014
Begin second round of monitoring	October 1, 2017
And which monitor for cryptosporidium	
Begin first round of monitoring	April 1, 2010
Begin treatment for Cryptosporidium	October 1, 2014
Begin second round of monitoring	April 1, 2019
Systems that serve 10,000 to 49,999 persons	
Begin first round of monitoring	April 1, 2008
Begin treatment for Cryptosporidium	October 1, 2013
Begin second round of monitoring	October 1, 2016
Systems that serve 50,000 to 99,999 persons	
Begin first round of monitoring	April 1, 2007
Begin treatment for Cryptosporidium	October 1, 2012
Begin second round of monitoring	October 1, 2015
Systems that serve 100,000 or more persons	
Begin first round of monitoring	October 1, 2006
Begin treatment for Cryptosporidium	April 1, 2012
Begin second round of monitoring	April 1, 2015
(corresponding with Subpart Z of this Part)	
(E. coli, Cryptosporidium, Giardia lamblia, viruses, and turbidity)	
Groundwater Rule (40 CFR 141, subpart S)	December 1, 2009
(corresponding with Subpart S of this Part)	
(E. coli, enterococci, and coliphage)	
<u>Revised Total Coliforms Rule (40 CFR 141, Subpart Y)</u>	<u>Effective: April 15, 2013</u>
<u>(corresponding with subpart AA of this Part)</u>	<u>Compliance: April 1, 2016</u>
<u>(total coliforms (indicator), E. coli)</u>	

(Source: Amended at 38 Ill. Reg. _____, effective _____)

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- 1) Heading of the Part: Live Adult Entertainment Facility Surcharge Act
- 2) Code Citation: 86 Ill. Adm. Code 900
- 3)

<u>Section Numbers:</u>	<u>Proposed Action:</u>
900.105	New
900.110	New
900.115	New
900.120	New
900.125	New
900.130	New
- 4) Statutory Authority: 35 ILCS 175
- 5) A Complete Description of the Subjects and Issues Involved: The proposed Part 900 implements PA 97-1035, the Live Adult Entertainment Facility Surcharge Act, codified at 35 ILCS 175 (Act). The Act imposes an annual surcharge upon each operator that operates a live adult entertainment facility, commonly known as a striptease club. The surcharge is \$3 per person admitted to a facility; or alternatively, \$25,000 if gross receipts taxable under Retailers' Occupation Tax Act are equal to or greater than \$2,000,000; \$15,000 if gross receipts taxable under Retailers' Occupation Tax Act are equal to or greater than \$500,000 but are less than \$2,000,000; or \$5,000 if gross receipts taxable under Retailers Occupation Tax Act are less than \$500,000. "Live adult entertainment facility" means a striptease club or other business that serves or permits the consumption of alcohol on its premises, and, during at least 30 consecutive or nonconsecutive days in a calendar year, offers or provides activities by employees, agents or contractors of the business that involve nude or partially nude individuals that, when considered as a whole, appeal primarily to an interest in nudity or sex. The proposed Part addresses the nature and rate of the surcharge, persons subject to the surcharge, tax returns that must be filed by an operator, books and records that must be kept by an operator, and penalties and interest that may be assessed against an operator for failure to comply with the Act.
- 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

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- 10) Are there any other proposed rulemakings pending on this Part: No
- 11) Statement of Statewide Policy Objectives: This rulemaking does not create a State mandate, nor does it modify any existing State mandates.
- 12) Time, place and manner in which interested persons may comment on this proposed rulemaking: Persons who wish to submit comments on this proposed rule may submit them in writing by no later than 45 days after publication of this notice to:
- Richard S. Wolters
Associate Council
Illinois Department of Revenue
Legal Services Office
101 West Jefferson
Springfield, Illinois 62794
- 217/782-2844
- 13) Initial Regulatory Flexibility Analysis:
- A) Types of small businesses, small municipalities and not for profit corporations affected: Person operating live adult entertainment facilities will be affected.
- B) Reporting, bookkeeping or other procedures required for compliance: General bookkeeping
- C) Types of professional skills necessary for compliance: Bookkeeping; simple computer skills
- 14) Regulatory Agenda on which this rulemaking was summarized: July 2013

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

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NOTICE OF PROPOSED RULE

TITLE 86: REVENUE

CHAPTER I: DEPARTMENT OF REVENUE

PART 900

LIVE ADULT ENTERTAINMENT FACILITY SURCHARGE ACT

Section

900.105	Definitions
900.110	Nature and Rate of the Surcharge
900.115	Persons Subject to the Surcharge
900.120	Returns
900.125	Books and Records
900.130	Penalties, Interest and Procedures

AUTHORITY: Implementing the Live Adult Entertainment Facility Surcharge Act [35 ILCS 175] and authorized by Section 30 of the Live Adult Entertainment Facility Surcharge Act.

SOURCE: Adopted at 38 Ill. Reg. _____, effective _____.

Section 900.105 Definitions

"Act" means the Live Adult Entertainment Facility Surcharge Act [35 ILCS 175].

"Admission" means entry by a person into a live adult entertainment facility [35 ILCS 175/5].

"Department" means the Department of Revenue [35 ILCS 175/5].

"Gross receipts" has the meaning ascribed to the term in Section 1 of the Retailers' Occupation Tax Act [35 ILCS 120/1].

"Live adult entertainment facility" means a striptease club or other business that meets all of the following conditions:

the business serves alcohol or permits the consumption of alcohol on its premises;

during at least 30 consecutive or nonconsecutive days in a calendar year, the business offers or provides activities by employees, agents, or

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contractors of the business that involve nude or partially denuded individuals. Customers of the business participating in activities such as wet tee-shirt contests are not considered employees, agents, or contractors; and

the activities by the employees, agents, or contractors, when considered as a whole, appeal primarily to an interest in nudity or sex. [35 ILCS 175/5]

"Nude or partially denuded individual" means an individual who is:

entirely unclothed; or

clothed in a manner that leaves uncovered or visible through less than fully opaque clothing any portion of the breasts below the top of the areola of the breasts, if the person is female, or any portion of the genitals or buttocks [35 ILCS 175/5].

"Operator" means any person who owns or operates a live adult entertainment facility in this State [35 ILCS 175/5].

The operator, for purposes of the Act, is the person or entity that has managerial and operational control of the live adult entertainment facility and retains the revenues from the operations.

An owner that contracts with an entity to manage a live adult entertainment facility and pays the entity a contractual sum to manage the facility is the operator for purposes of the Act.

A lessor of the real property is not an operator for purposes of the Act if the lessor has leased the premises to a lessee that operates the live adult entertainment facility and the lessor has no interest in the proceeds derived from the live adult entertainment facility, except for payments due under the terms of the lease.

A person having a security interest in either the real estate upon which the live adult entertainment facility is located, the building that houses the live adult entertainment facility, or the contents or fixtures located on the premises, is not an operator for purposes of the Act.

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"Premises" means the property on which the adult entertainment facility is located and all property contiguous to the live adult entertainment facility owned or leased by, or otherwise under the control of, the operator, including beer gardens and parking lots. Property that is contiguous to a live adult entertainment facility but is not owned or leased by, or otherwise under the control of, the operator will nonetheless be considered part of the facility's "premises" if alcohol is served or consumed there and if customers can move freely between the contiguous property and the live adult entertainment facility.

Section 900.110 Nature and Rate of the Surcharge

- a) Nature and Rate of Tax
- An annual surcharge is imposed upon each operator who operates a live adult entertainment facility in this State. By January 20, 2014, and by January 20 of each year thereafter, each operator shall elect to pay the surcharge according to one of the two methods set forth in this Section.*
- 1) *An operator who elects to be subject to this subsection (a)(1) shall pay to the Department a surcharge imposed upon admissions to a live adult entertainment facility operated by the operator in this State in an amount equal to \$3 per person admitted to that live adult entertainment facility. This subsection (a)(1) does not require a live entertainment facility to impose a fee on a customer of the facility. An operator has the discretion to determine the manner in which the facility derives the moneys required to pay the surcharge imposed under this Section. In the event that an operator has not filed the applicable returns under the Retailers' Occupation Tax Act (ROTA) for a full calendar year prior to any January 20, then the operator shall pay the surcharge pursuant to this subsection (a)(1) for moneys owed to the Department subject to the Act for the previous calendar year.*
 - 2) *An operator may, in the alternative, pay to the Department the surcharge as follows:*
 - A) *If the gross receipts received by the live adult entertainment facility during the preceding calendar year, upon the basis of which a tax is imposed under Section 2 of ROTA, are equal to or greater than \$2,000,000 during the preceding calendar year, the operator shall pay the Department a surcharge of \$25,000.*

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- B) *If the gross receipts received by the live adult entertainment facility during the preceding calendar year, upon the basis of which a tax is imposed under Section 2 of ROTA, are equal to or greater than \$500,000 but less than \$2,000,000 during the preceding calendar year, the operator shall pay to the Department a surcharge of \$15,000.*
- C) *If the gross receipts received by the live adult entertainment facility during the preceding calendar year, upon the basis of which a tax is imposed under Section 2 of ROTA, are less than \$500,000 during the preceding calendar year, the operator shall pay the Department a surcharge of \$5,000. [35 ILCS 175/10]*
- b) An operator may elect on an annual basis the method to pay the surcharge and is not bound by a prior election.

Section 900.115 Persons Subject to the Surcharge

- a) *An annual surcharge is imposed upon each operator who operates a live adult entertainment facility in this State. [35 ILCS 175/10]*
- b) The Act applies to operators of live adult entertainment facilities.
- c) The Act applies to a facility operated as a business that is open to the public. The Act does not apply to private clubs. The following factors are relevant for purposes of determining if an entity is open to the public or is considered a private club:
- 1) Whether an entity uses genuine selectivity in the admission of its members, reflected, in part, by:
 - A) permanent and formal procedures established to select and approve applicants; and
 - B) strict limitation on the use of the club's facilities and services by members and their guests only.

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- 2) Whether the membership exercises substantial and meaningful control over the club's operations, reflected by the occurrence of general meetings and an organizational form that permits members to select officers who direct and manage the club.
- 3) Whether the club advertises or publicizes its activities, events, services or facilities to nonmembers.
- 4) Whether the club operates solely for the benefit of its members, or for the profit or benefit of one person or a small group.
- 5) Whether the club observes formalities appropriate for a private club and adheres to them in practice, e.g., establishing bylaws, holding meetings, recording minutes and issuing and tracking membership.
- 6) The club's history and purpose.

Section 900.120 Returns

- a) Payment of Surcharge Based on Admissions
 - 1) *For each live adult entertainment facility paying the surcharge based on admissions, the operator must file a return electronically as provided by the Department and remit payment to the Department on an annual basis no later than January 20 covering the previous calendar year. Each return made to the Department must state the following:*
 - A) *the name of the operator;*
 - B) *the address of the live adult entertainment facility and the address of the principal place of business (if that is a different address) of the operator;*
 - C) *the total number of admissions to the facility in the preceding calendar year; and*
 - D) *the total amount of surcharge collected in the preceding calendar year. [35 ILCS 175/10]*

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- 2) *A live adult entertainment facility paying the surcharge as set forth in Section 900.110(a)(1) is not required to impose a fee on a customer of the facility. An operator has the discretion to determine the manner in which the facility derives the moneys required to pay the surcharge imposed under the Act. [35 ILCS 175/10] The total amount of surcharge collected in the preceding calendar year for purposes of subsection (a)(1)(D) of this Section shall be determined by multiplying the total number of admissions to the facility in the preceding calendar year by \$3.*
 - 3) An operator may remit payment of the surcharge electronically at the time the return is filed. Payment must be remitted no later than January 20 and, if made electronically, must be made in accordance with the Department's rules governing electronic payments (86 Ill. Adm. Code 750.900).
- b) Payment of Surcharge Based on Gross Receipts
- 1) *For each live adult entertainment facility paying the surcharge based on gross receipts, the operator must file a return electronically as provided by the Department and remit payment to the Department on an annual basis no later than January 20 covering the previous calendar year. Each return made to the Department must state the following:*
 - A) *the name of the operator;*
 - B) *the address of the live adult entertainment facility and the address of the principal place of business (if that is a different address) of the operator;*
 - C) *the gross receipts received by the live adult entertainment facility during the preceding calendar year, upon the basis of which tax is imposed under Section 2 of ROTA; and*
 - D) *the applicable surcharge from Section 10(a)(2) of the Act to be paid by the operator. [35 ILCS 175/10]*
 - 2) An operator may remit payment of the surcharge electronically at the time the return is filed. Payment must be remitted no later than January 20 and, if made electronically, must be made in accordance with the Department's rules governing electronic payments (86 Ill. Adm. Code 750.900).

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- 3) *If an operator has not filed the applicable returns under ROTA for a full calendar year prior to any January 20, then the operator may not pay the surcharge based on the gross receipts method and must pay the surcharge based on the number of admissions during the previous calendar year [35 ILCS 175/10].*
- 4) For purposes of determining the gross receipts received by the live adult entertainment facility during the preceding calendar year for purposes of subsection (b)(1)(C), gross receipts are calculated using the total taxable receipts from the prior year's ST-1 Sales and Use Tax and E911 Surcharge Return forms.
- c) An operator that has provided live adult entertainment less than 30 days during the calendar year is not required to file an annual return.
- d) *Notwithstanding any other provision of this Section concerning the time within which an operator may file his or her return, if an operator ceases to operate a live adult entertainment facility, then he or she must file a final return under the Act with the Department not more than one calendar month after discontinuing that business [35 ILCS 175/10].* A business that has provided live adult entertainment less than 30 days during the calendar year and permanently ceases to provide live adult entertainment is not required to file a final return. A business may cease to provide live adult entertainment for purposes of this Section but continue its operations for other purposes (e.g., operating a bar).
- e) An operator must elect at the time a return is due which method under Section 900.110(a) it uses to calculate the surcharge. An operator may change the method it uses to calculate the surcharge at the time it files its next return.
- f) *Any operator who fails to make a return or who makes a fraudulent return is guilty of a Class 4 felony [35 ILCS 175/45].*

Section 900.125 Books and Records

- a) *Every operator electing to pay the surcharge pursuant to Section 900.110(a)(1) shall record the admissions of customers subject to the surcharge under the Act [35 ILCS 175/20].* An operator meets its obligations under this subsection if an employee located at the entrance of the live adult entertainment facility sells tickets to customers entering the facility and collects them from the customers

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after entry to the facility and the operator maintains a daily record of ticket sales in his or her books and records.

- b) A customer that enters and leaves the facility on multiple occasions need only be counted once by an operator during a 24-hour period, beginning at 8 AM each day, for purposes of the surcharge, if the operator uses a method to verify the customer previously has been counted upon reentry. The method selected may not permit the customer to transfer re-entry privileges to another customer. The following are acceptable, but not exclusive, methods of verification:
- 1) the use of a stamp with indelible ink, the color of which changes daily at 8 AM; or
 - 2) a card permitting re-entry by the customer upon which the date and customer's name have been written with indelible ink and that matches a customer's government-issued identification upon re-entry.
- c) *All of the provisions of Section 7 of ROTA regarding books and records that are not inconsistent with the Act apply, as far as practicable, to the surcharge imposed by the Act to the same extent as if those provisions were included in the Act [35 ILCS 175/25]. The persons named in ROTA Sections 4, 5, 5a, 5b, 5c, 5d, 5e, 5f, 5g, 5i, 5j, 6, 6a, 6b, 6c, 7, 8, 9, 10, 11 and 13 who are retailers, sellers, or persons engaged in the business of selling tangible personal property are considered operators under this Part.*

Section 900.130 Penalties, Interest and Procedures

- a) *All provisions of the Uniform Penalty and Interest Act [35 ILCS 735] that are not inconsistent with the Act shall apply.*
- b) *All the provisions of Sections 4, 5, 5a, 5b, 5c, 5d, 5e, 5f, 5g, 5i, 5j, 6, 6a, 6b, 6c, 7, 8, 9, 10, 11, and 13 of ROTA that are not inconsistent with the Act apply, as far as practicable, to the surcharge imposed by the Act to the same extent as if those provisions were included in the Act. References in these ROTA Sections to retailers, sellers, or persons engaged in the business of selling tangible personal property are considered operators under this Part. [35 ILCS 175/25]*
- c) *Any operator who fails to make a return or who makes a fraudulent return is guilty of a Class 4 felony [35 ILCS 175/45].*

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- d) Any person aggrieved by any decision of the Department under this Part may, within 60 days after notice of the decision, protest in writing and request a hearing. Upon receiving a written request for a hearing, the Department shall give notice to the person requesting the hearing of the time and place fixed for the hearing and shall hold a hearing in conformity with the provisions of this Part. The Department shall issue to that person its final administrative decision in the matter. In the absence of a protest and request for a hearing within 60 days, the Department's decision shall become final without any further determination being made or notice given.
- e) *The circuit court of any county in which a hearing is held has the power to review all final administrative decisions of the Department in administering the surcharge imposed under the Act. The term "administrative decision" is defined as in Section 3-101 of the Code of Civil Procedure [735 ILCS 5/3-101] [35 ILCS 175/40].*

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- 1) Heading of the Part: Video Gaming (General)
- 2) Code Citation: 11 Ill. Adm. Code 1800
- 3)

<u>Section Numbers:</u>	<u>Adopted Action:</u>
1800.110	Amend
1800.810	Amend
1800.1010	Amend
1800.1410	Amend
1800.1420	New
- 4) Statutory Authority: Authorized by the Video Gaming Act [230 ILCS 40], specifically Section 78 (a) (3) and (b) of that Act [230 ILCS 40/78 (a) (3) and (b)]
- 5) Effective Date of Rulemaking: November 8, 2013
- 6) Does this rulemaking contain an automatic repeal date? No
- 7) Does this rulemaking contain an incorporation by reference? No
- 8) A copy of the adopted rulemaking, including any material incorporated by reference, is on file in the principal office and is available for public inspection.
- 9) Notice of Proposal published in the *Illinois Register*: 37 Ill. Reg. 9833; July 12, 2013
- 10) Has JCAR issued a Statement of Objection to this rulemaking? No
- 11) Differences between Proposal and Final Version: On First Notice, the Illinois Gaming Board added new subsection (h) to Section 1800.1410, providing the following:
 - h) A terminal operator may sell or otherwise transfer a payout device to another terminal operator only with prior written approval of the Administrator.

On Second Notice, a comma was deleted from Section 1800.110, making no substantive change in the rulemaking.
- 12) Have all the changes agreed upon by the Agency and JCAR been made as indicated in the agreement letter issued by JCAR? Yes
- 13) Will this rulemaking replace any emergency rulemaking currently in effect? No
- 14) Are there any proposed rulemakings pending on this part? Yes

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<u>Section Numbers:</u>	<u>Proposed Action:</u>	<u>Illinois Register Citation:</u>
1800.570	Amend	37 Ill. Reg. 14368; September 13, 2013
1800.820	Amend	37 Ill. Reg. 14368; September 13, 2013
1800.830	Amend	36 Ill. Reg. 14368; September 13, 2013

- 15) Summary and Purpose of Rulemaking: The rulemaking makes the following changes to the video gaming (general) rules [11 Ill. Admin. Code 1800]:

Inclusion of unredeemed vouchers as part of adjusted gross receipts: The rulemaking adds a definition of "adjusted gross receipts" to Section 1800.110 ("Definitions"). Under the new definition, "adjusted gross receipts" are defined as gross receipts less winnings paid to wagerers. The definition further provides that the value of expired vouchers shall be included in computing adjusted gross receipts. Including the value of expired vouchers as part of adjusted gross receipts conforms with standard accounting practice in the gaming industry.

Restricted areas for video gaming: A new paragraph added to Section 1800.810 ("Location and Placement of Video Gaming Terminals") establishes the following requirements relating to restricted areas for video gaming;

- For those locations that restrict admittance to patrons 21 years of age or older, a separate restricted area is not required.
- For those locations where separation from minors under 21 is required, a physical barrier to the gaming area, which may be a short partition, gate, rope or other barrier, is required. No barrier shall visually obscure the entrance to the gaming area from an employee of the location who is over the age of 21.

This rule change represents a codification of existing board policy.

Transfers of video gaming terminals (VGTs) between terminal operators: Currently, the Video Gaming Act and rules do not specify whether a licensed terminal operator may sell or otherwise transfer a video gaming terminal to another licensed terminal operator. The rulemaking brings clarity to this issue. It amends Section 1800.1010 of the video gaming rules ("Restriction on Sale, Distribution, Transfer, Supply, and Operation of Video Gaming Terminals") to authorize such a sale or transfer only with the prior written approval of the Administrator.

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Additional record-keeping requirements for facility payments: A "facility payment" is defined in the video gaming rules as a manual payment of currency by an authorized employee of a licensed video gaming location or terminal operator, for amounts owed to a patron by a video gaming terminal when a video gaming terminal or ticket payout device has malfunctioned and is unable to produce or redeem a ticket. Section 1800.1410 (e) of the video gaming rules ("Ticket Payout Devices") currently requires all facility payments to be accounted for by the licensed terminal operator and licensed video gaming location using Generally Accepted Accounting Principles (GAAP). As an additional check on accuracy and honesty, the rulemaking amends Section 1410 e) to require the recording of the following information for each facility payment:

- Date and time of the payment event;
- Amount paid;
- Video gaming terminal license number, payout device number, or video gaming ticket number for which payment is made; and
- Name of the individual processing the facility payment.

Redemption of tickets following removal or unavailability of a ticket payout device: The rulemaking adds a new Section 1420 ("Redemption of Tickets Following Removal or Unavailability of Ticket Payout Devices") addressing ticket redemption procedures in the following two situations:

- A video gaming location changes both terminal providers and ticket payout systems, thereby rendering tickets unredeemable by the new ticket payout device at the location; or
- A location either ceases video gaming operations or suspends them for more than 10 days because of closure, change of location, revocation or suspension of liquor or video gaming license, or other cause.

In instances when a location changes terminal providers and ticket payout systems, the rulemaking requires the location to provide facility payments to the patrons for tickets issued under the previous terminal operator.

In instances when a location ceases video gaming operations or suspends them for more than 10 days, the rulemaking requires the location to inform patrons of the name and

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phone number of the terminal operator from which patrons can seek payment for unredeemed tickets, using both of the following informational methods:

- Placing a prominent sign at the location (whose dimensions are specified in the rulemaking); and
- Placing a prominent notice on any internet site or social media outlet under the location's operation or control.

For all situations covered by this rulemaking, the terminal operator must maintain or secure a list or database of all issued and unredeemed tickets from the affected location. This list or database must be maintained for not less than one year.

16) Information and questions regarding this adopted rulemaking may be addressed to:

Emily Mattison
General Counsel
Illinois Gaming Board
160 North LaSalle Street
Chicago, Illinois 60601

Fax No.: 312/814-7253

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

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TITLE 11: ALCOHOL, HORSE RACING, LOTTERY, AND VIDEO GAMING
SUBTITLE D: VIDEO GAMING
CHAPTER I: ILLINOIS GAMING BOARD

PART 1800
VIDEO GAMING (GENERAL)

SUBPART A: GENERAL PROVISIONS

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1800.110	Definitions
1800.115	Gender
1800.120	Inspection

SUBPART B: DUTIES OF LICENSEES

Section	
1800.210	General Duties of All Video Gaming Licensees
1800.220	Continuing Duty to Report Violations
1800.230	Duties of Licensed Manufacturers
1800.240	Duties of Licensed Distributors
1800.250	Duties of Licensed Video Terminal Operators
1800.260	Duties of Licensed Technicians and Licensed Terminal Handlers
1800.270	Duties of Licensed Video Gaming Locations

SUBPART C: STANDARDS OF CONDUCT FOR LICENSEES

Section	
1800.310	Grounds for Disciplinary Actions
1800.320	Minimum Standards for Use Agreements
1800.330	Economic Disassociation

SUBPART D: LICENSING QUALIFICATIONS

Section	
1800.410	Coverage of Subpart
1800.420	Qualifications for Licensure
1800.430	Persons with Significant Influence or Control

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SUBPART E: LICENSING PROCEDURES

Section

- 1800.510 Coverage of Subpart
- 1800.520 Applications
- 1800.530 Submission of Application
- 1800.540 Application Fees
- 1800.550 Consideration of Applications by the Board
- 1800.555 Withdrawal of Applications
- 1800.560 Issuance of License
- 1800.570 Renewal of License
- 1800.580 Renewal Fees and Dates
- 1800.590 Death and Change of Ownership of Video Gaming Licensee

SUBPART F: DENIALS OF APPLICATIONS FOR LICENSURE

Section

- 1800.610 Coverage of Subpart
- 1800.615 Requests for Hearing
- 1800.620 Appearances
- 1800.625 Appointment of Administrative Law Judge
- 1800.630 Discovery
- 1800.635 Subpoenas
- 1800.640 Motions for Summary Judgment
- 1800.650 Proceedings
- 1800.660 Evidence
- 1800.670 Prohibition on Ex Parte Communication
- 1800.680 Sanctions and Penalties
- 1800.690 Transmittal of Record and Recommendation to the Board
- 1800.695 Status of Applicant for Licensure Upon Filing Request for Hearing

SUBPART G: DISCIPLINARY ACTIONS AGAINST LICENSEES

Section

- 1800.710 Coverage of Subpart
- 1800.715 Notice of Proposed Disciplinary Action Against Licensees
- 1800.720 Hearings in Disciplinary Actions
- 1800.725 Appearances
- 1800.730 Appointment of Administrative Law Judge

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1800.735	Discovery
1800.740	Subpoenas
1800.745	Motions for Summary Judgment
1800.750	Proceedings
1800.760	Evidence
1800.770	Prohibition on Ex Parte Communication
1800.780	Sanctions and Penalties
1800.790	Transmittal of Record and Recommendation to the Board

SUBPART H: LOCATION OF VIDEO GAMING TERMINALS IN
LICENSED VIDEO GAMING LOCATIONS

Section	
1800.810	Location and Placement of Video Gaming Terminals
1800.820	Measurement of Distances from Locations
1800.830	Waivers of Location Restrictions

SUBPART I: SECURITY INTERESTS

Section	
1800.910	Approvals Required, Applicability, Scope of Approval
1800.920	Notice of Enforcement of a Security Interest
1800.930	Prior Registration

SUBPART J: TRANSPORTATION, REGISTRATION,
AND DISTRIBUTION OF VIDEO GAMING TERMINALS

Section	
1800.1010	Restriction on Sale, Distribution, Transfer, Supply and Operation of Video Gaming Terminals
1800.1020	Transportation of Video Gaming Terminals into the State
1800.1030	Receipt of Video Gaming Terminals in the State
1800.1040	Transportation of Video Gaming Terminals Between Locations in the State
1800.1050	Approval to Transport Video Gaming Terminals Outside of the State
1800.1060	Placement of Video Gaming Terminals
1800.1065	Registration of Video Gaming Terminals
1800.1070	Disposal of Video Gaming Terminals

SUBPART K: STATE-LOCAL RELATIONS

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Section
1800.1110 State-Local Relations

SUBPART L: FINGERPRINTING OF APPLICANTS

Section
1800.1210 Definitions
1800.1220 Entities Authorized to Perform Fingerprinting
1800.1230 Qualification as a Livescan Vendor
1800.1240 Fingerprinting Requirements
1800.1250 Fees for Fingerprinting
1800.1260 Grounds for Revocation, Suspension and Denial of Contract

SUBPART M: PUBLIC ACCESS TO INFORMATION

Section
1800.1310 Public Requests for Information

SUBPART N: PAYOUT DEVICES AND REQUIREMENTS

Section
1800.1410 Ticket Payout Devices
1800.1420 Redemption of Tickets Following Removal or Unavailability of Ticket Payout Devices

SUBPART O: NON-PAYMENT OF TAXES

Section
1800.1510 Non-Payment of Taxes

AUTHORITY: Implementing and authorized by the Video Gaming Act [230 ILCS 40].

SOURCE: Adopted by emergency rulemaking at 33 Ill. Reg. 14793, effective October 19, 2009, for a maximum of 150 days; adopted at 34 Ill. Reg. 2893, effective February 22, 2010; emergency amendment at 34 Ill. Reg. 8589, effective June 15, 2010, for a maximum of 150 days; emergency expired November 11, 2010; amended at 35 Ill. Reg. 1369, effective January 5, 2011; emergency amendment at 35 Ill. Reg. 13949, effective July 29, 2011, for a maximum of 150 days; emergency expired December 25, 2011; amended at 36 Ill. Reg. 840, effective January 6,

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2012; amended by emergency rulemaking at 36 Ill. Reg. 4150, effective February 29, 2012, for a maximum of 150 days; amended at 36 Ill. Reg. 5455, effective March 21, 2012; amended at 36 Ill. Reg. 10029, effective June 28, 2012; emergency amendment at 36 Ill. Reg. 11492, effective July 6, 2012, for a maximum of 150 days; emergency expired December 2, 2012; emergency amendment at 36 Ill. Reg. 12895, effective July 24, 2012, for a maximum of 150 days; amended at 36 Ill. Reg. 13178, effective July 30, 2012; amended at 36 Ill. Reg. 15112, effective October 1, 2012; amended at 36 Ill. Reg. 17033, effective November 21, 2012; amended at 36 Ill. Reg. 18550, effective December 14, 2012; amended at 37 Ill. Reg. 810, effective January 11, 2013; amended at 37 Ill. Reg. 4892, effective April 1, 2013; amended at 37 Ill. Reg. 7750, effective May 23, 2013; amended at 37 Ill. Reg. 18843, effective November 8, 2013.

SUBPART A: GENERAL PROVISIONS

Section 1800.110 Definitions

For purposes of this Part the following terms shall have the following meanings:

"Act": The Video Gaming Act [230 ILCS 40].

"Adjusted gross receipts" means the gross receipts less winnings paid to wagerers. The value of expired vouchers shall be included in computing adjusted gross receipts.

"Administrator": The chief executive officer responsible for day-to-day operations of the Illinois Gaming Board.

"Affiliate": An "affiliate of", or person "affiliated with", a specified person shall mean a person that directly, or indirectly through one or more intermediaries, controls, or is controlled by, or is under common control with, such person.

"Affiliated entity": An "affiliated entity" of a person is any business entity that directly or indirectly, through one or more intermediaries, controls, is controlled by, or is under common control with, the person.

"Applicant": A person applying for any license under the Act.

"Application": All material submitted, including the instructions, definitions, forms and other documents issued by the Illinois Gaming Board, comprising the video gaming license application submitted to the Illinois Gaming Board.

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"Associated video gaming equipment": Ticket payout systems and validation procedures; wireless, promotional and bonusing systems; kiosks; gaming-related peripherals; hardware, software and systems; and other gaming devices and equipment for compliance with:

Illinois laws, regulations and requirements as codified or otherwise set forth; and

Board-approved video gaming industry standards.

"Attributed interest": A direct or indirect interest in an enterprise deemed to be held by an individual not through the individual's actual holdings but either through the holdings of the individual's relatives or through a third party or parties on behalf of the individual pursuant to a plan, arrangement, agreement or contract.

"Board": The Illinois Gaming Board.

"Business entity" or "Business": A partnership, incorporated or unincorporated association or group, firm, corporation, limited liability company, partnership for shares, trust, sole proprietorship or other business enterprise.

"Chi-square test": A statistical test used to determine if a relationship between variables exists by comparing expected and observed cell frequencies. Specifically, a chi-square test examines the observed frequencies in a category and compares them to what would be expected by chance or would be expected if there was no relationship between variables.

"Control": The possession, direct or indirect, of power to direct or cause the direction of the management and policies of an applicant or licensee through the ownership of voting securities, by contract or otherwise.

"Convenience store": A retail store that is open long hours and sells motor fuel and a limited selection of snacks and general goods.

"Credit": One, five, 10 or 25 cents.

"Distributor": An individual, partnership, corporation or limited liability company licensed under the Act to buy, sell, lease or distribute video gaming

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terminals or major components or parts of video gaming terminals to or from terminal operators.

"Enforce a security interest": To transfer possession of ownership or title pursuant to a security interest.

"EPROM": An acronym for Erasable, Programmable, Read Only Memory, which is a microprocessor component that stores memory and affects payout percentage and/or contains a random number generator that selects the outcome of a game on a video gaming terminal.

"Facility-pay" or "facility payment" means a manual payment of currency by an authorized employee of a licensed video gaming location or an authorized employee of a terminal operator for amounts owed to a patron by a video gaming terminal when a video gaming terminal or ticket payout device has malfunctioned and is unable to produce or redeem a ticket.

"Fraternal organization": An organization or institution organized and conducted on a not-for-profit basis with no personal profit inuring to anyone as a result of the operation and that is exempt from federal income taxation under section 501(c)(8) or (c)(10) of the Internal Revenue Code (26 USC 501(c)(8) or (c)(10)).

"Game": A gambling activity that is played for money, property or anything of value, including without limitation those played with cards, chips, tokens, vouchers, dice, implements, or electronic, electrical or mechanical devices or machines.

"Gaming": The dealing, operating, carrying on, conducting, maintaining or exposing for play of any game.

"Gaming operation": The conducting of gaming or the providing or servicing of gaming equipment.

"Gaming property collateral": Video gaming equipment subject to a security interest.

"Illinois resident":

With respect to an individual, an individual who is either:

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domiciled in Illinois or maintains a bona fide place of abode in Illinois; or

is required to file an Illinois tax return during the taxable year.

With respect to a corporation, any corporation organized under the laws of this State and any foreign corporation with a certificate of authority to transact business in Illinois. A foreign corporation not authorized to transact business in this State is a nonresident of this State.

With respect to a partnership, a partnership in which any partner is an Illinois resident, or where the partnership has an office and is doing business in Illinois.

With respect to an irrevocable trust, a trust where the grantor was an Illinois resident individual at the time the trust became irrevocable.

"Institutional investor":

A retirement fund administered by a public agency for the exclusive benefit of federal, state or local public employees;

An investment company registered under section 8 of the Investment Company Act of 1940 (15 USC 80a-8);

A collective investment trust organized by a bank under Part 9 of the Rules of the Comptroller of the Currency (12 CFR 9.18);

A closed end investment trust registered with the United States Securities and Exchange Commission;

A chartered or licensed life insurance company or property and casualty insurance company;

A federal or state bank;

An investment advisor registered under the Investment Advisors Act of 1940 (15 USC 80b-1 through 80b-21); or

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Such other person as the Illinois Gaming Board may determine for reasons consistent with the Act and this Part.

"License": Authorization granted by the Board permitting a licensee to engage in the defined activities of video gaming.

"Licensed establishment": Any retail establishment licensed under the Act where alcoholic liquor is drawn, poured, mixed, or otherwise served for consumption on the premises. Licensed establishment does not include a facility operated by an organization licensee, an intertrack wagering licensee, or an intertrack wagering location licensee licensed under the Illinois Horse Racing Act of 1975 [230 ILCS 5] or a riverboat licensed under the Riverboat Gambling Act [230 ILCS 10].

"Licensed fraternal establishment": The location licensed under the Act where a qualified fraternal organization that derives its charter from a national fraternal organization regularly meets.

"Licensed technician": An individual who is licensed under the Act to repair, service and maintain video gaming terminals.

"Licensed terminal handler": A person, including but not limited to an employee or independent contractor working for a manufacturer, distributor, supplier, technician or terminal operator, who is licensed under the Act to possess or control a video gaming terminal or to have access to the inner workings of a video gaming terminal. A licensed terminal handler does not include an individual, partnership, corporation or limited liability company defined as a manufacturer, distributor, supplier, technician or terminal operator under Section 5 of the Act.

"Licensed truck stop establishment": A facility licensed under the Act that is at least a 3-acre facility with a convenience store, that has separate diesel islands for fueling commercial motor vehicles, that sells at retail more than 10,000 gallons of diesel or biodiesel fuel per month, and that has parking spaces for commercial motor vehicles. "Commercial motor vehicles" has the same meaning as defined in Section 18b-101 of the Illinois Vehicle Code [625 ILCS 5/18b-101]. The 10,000 gallon requirement may be met by showing that estimated future sales or past sales average at least 10,000 gallons per month.

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"Licensed veterans establishment": The location licensed under the Act where a qualified veterans organization that derives its charter from a national veterans organization regularly meets.

"Licensed video gaming location": A licensed establishment, licensed fraternal establishment, licensed veterans establishment, or licensed truck stop establishment, all as defined in Section 5 of the Act and this Part.

"Liquor license": A license issued by a governmental body authorizing the holder to sell and offer for sale at retail alcoholic liquor for use or consumption.

"Major components or parts": Components or parts that comprise the inner workings and peripherals of a video gaming terminal, including but not limited to the device's hardware, software, human interface devices, interface ports, power supply, ticket payout system, bill validator, printer and any component that affects or could affect the result of a game played on the device.

"Manufacturer": An individual, partnership, corporation or limited liability company that is licensed under the Act and that manufactures or assembles video gaming terminals.

"Net terminal income": Money put into a video gaming terminal minus credits paid out to players.

"Nominee": Any individual or business entity that holds as owner of record the legal title to tangible or intangible personal or real property, including without limitation any stock, bond, debenture, note, investment contract or real estate on behalf of another individual or business entity, and as such is designated and authorized to act on his, her or its behalf with respect to the property.

"Ownership interest": Includes, but is not limited to, direct, indirect, beneficial or attributed interest, or holder of stock options, convertible debt, warrants or stock appreciation rights, or holder of any beneficial ownership or leasehold interest in a business entity.

"Payout device": A device, approved by the Board and provided by a supplier or distributor, that redeems for cash tickets dispensed by a video gaming terminal in exchange for credits accumulated on a video gaming terminal.

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"Person": Includes both individuals and business entities.

"Person with significant interest or control": Any of the following:

Each person in whose name the liquor license is maintained for each licensed video gaming location;

Each person who, in the opinion of the Administrator, has the ability to influence or control the activities of the applicant or licensee, or elect a majority of its board of directors, other than a bank or licensed lending institution that holds a mortgage or other lien, or any other source of funds, acquired in the ordinary course of business;

Persons having the power to exercise significant influence or control over decisions concerning any part of the applicant's or licensee's video gaming operation.

"Place of worship under the Religious Corporation Act": A structure belonging to, or operated by, a church, congregation or society formed for the purpose of religious worship and eligible for incorporation under the Religious Corporation Act [805 ILCS 110], provided that the structure is used primarily for purposes of religious worship and related activities.

"Redemption period": The one-year period, starting on the date of issuance, during which a ticket dispensed by a video gaming terminal may be redeemed for cash.

"Secured party": A person who is a lender, seller or other person who holds a valid security interest.

"Security": An ownership right or creditor relationship.

"Security agreement": An agreement that creates or provides a security interest, including but not limited to a use agreement.

"Security interest": An interest in property that secures the payment or performance of an obligation or judgment.

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"Sole proprietor": An individual who in his or her own name owns 100% of the assets and who is solely liable for the debts of a business.

"Substantial interest": With respect to a partnership, a corporation, an organization, an association, a business or a limited liability company means:

When, with respect to a sole proprietorship, an individual or his or her spouse owns, operates, manages, or conducts, directly or indirectly, the organization, association or business, or any part thereof; or

When, with respect to a partnership, the individual or his or her spouse shares in any of the profits, or potential profits, of the partnership activities; or

When, with respect to a corporation, an individual or his or her spouse is an officer or director or the individual or his or her spouse is a holder, directly or beneficially, of 5% or more of any class of stock of the corporation; or

When, with respect to a limited liability company, an individual or his or her spouse is a member, or the individual or his or her spouse is a holder, directly or beneficially, of 5% or more of the membership interest of the limited liability company; or

When, with respect to any other organization not covered in the preceding four paragraphs, an individual or his or her spouse is an officer or manages the business affairs, or the individual or his or her spouse is the owner of, or otherwise controls, 10% or more of the assets of the organization; or

When an individual or his or her spouse furnishes 5% or more of the capital, whether in cash, goods or services, for the operation of any business, association or organization during any calendar year.

For purposes of this definition, "individual" includes all individuals or their spouses whose combined interest would qualify as a substantial interest under this definition and whose activities with respect to an organization, association, or business are so closely aligned or coordinated as to constitute the activities of a single entity.

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"Supplier": An individual, partnership, corporation or limited liability company that is licensed under the Act to supply major components or parts to video gaming terminals to licensed terminal operators.

"Terminal operator": An individual, partnership, corporation or limited liability company that is licensed under the Act that owns, services, and maintains video gaming terminals for placement in licensed establishments, licensed truck stop establishments, licensed fraternal establishments or licensed veterans establishments.

"Use agreement": A contractual agreement between a licensed terminal operator and a licensed video gaming location establishing terms and conditions for placement and operation of video gaming terminals by the licensed terminal operator within the premises of the licensed video gaming location.

"Veterans organization": An organization or institution organized and conducted on a not-for-profit basis with no personal profit inuring to anyone as a result of the operation and that is exempt from federal income taxation under section 501(c)(19) of the Internal Revenue Code (26 USC 501(c)(19)).

"Video gaming equipment": Video gaming terminals, associated video gaming equipment and major components or parts.

"Video gaming operation": As the context requires, the conducting of video gaming and all related activities.

"Video gaming terminal": Any electronic video game machine that, upon insertion of cash, is available to play or simulate the play of a video game, including but not limited to video poker, line up and blackjack, as authorized by the Board utilizing a video display and microprocessors in which the player may receive free games or credits that can be redeemed for cash. The term does not include a machine that directly dispenses coins, cash, or tokens or is for amusement purposes only.

(Source: Amended at 37 Ill. Reg. 18843, effective November 8, 2013)

SUBPART H: LOCATION OF VIDEO GAMING TERMINALS IN
LICENSED VIDEO GAMING LOCATIONS

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Section 1800.810 Location and Placement of Video Gaming Terminals

- a) All licensed video gaming locations and terminal operators shall be responsible for the proper placement, installation, maintenance and oversight of video gaming terminals within a licensed video gaming location as prescribed by the Act and this Part.
- b) All video gaming terminals must be located in an area restricted to persons over 21 years of age. For all licensed video gaming locations that restrict admittance to patrons 21 years of age or older, a separate restricted area is not required. Any licensed video gaming location that allows minors to enter where video gaming terminals are located shall separate any video gaming terminals from the area accessible by minors. In those licensed video gaming locations where separation from minors under 21 is required, a physical barrier to the gaming area is required, which may consist of a short partition, gate or rope or other means of separation. No barrier shall visually obscure the entrance to the gaming area from an employee of the licensed video gaming location who is over the age of 21.
- c) When two or more adjacent businesses appear to the Administrator to be a single business, or are operated by the same or commingled ownership, then the Administrator may limit those businesses to the maximum number of video gaming terminals. The maximum will be the number permitted under Illinois law for one business as the total number of video gaming terminals authorized for both or more such businesses, where the Administrator determines that the limitation would further the intent of the Act and the integrity of video gaming in the State of Illinois.
 - 1) In the event the Administrator decides that two or more adjacent businesses shall be a single business for purposes of determining the maximum number of video gaming terminals to which they are entitled, the Administrator shall provide the affected businesses with written notice of this decision in accordance with the notice requirements of Section 1800.615.
 - 2) An applicant that has been deemed to constitute a single business with one or more adjacent businesses for purposes of determining the maximum number of video gaming terminals to which it is entitled may submit a request for hearing to the Board. The hearing procedures shall be those set forth in Subpart F.

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- d) The owner, manager or employee of the licensed video gaming location who is over 21 years of age shall be present during all hours of operation, and the video gaming terminals or the entrance to the video gaming terminal area must be within the view of at least one owner, manager or employee.

(Source: Amended at 37 Ill. Reg. 18843, effective November 8, 2013)

SUBPART J: TRANSPORTATION AND DISTRIBUTION
OF VIDEO GAMING TERMINALS**Section 1800.1010 Restriction on Sale, Distribution, Transfer, Supply, and Operation of Video Gaming Terminals**

- a) No licensee shall sell, distribute, transfer or supply a video gaming terminal to any person that could not lawfully own or operate the video gaming terminal.
- b) No terminal operator or licensed video gaming location shall operate a video gaming terminal without first obtaining a terminal operator's license or a license for a video gaming location, as applicable.
- c) A terminal operator may sell or otherwise transfer a video gaming terminal to another terminal operator only with prior written approval of the Administrator.

(Source: Amended at 37 Ill. Reg. 18843, effective November 8, 2013)

SUBPART N: PAYOUT DEVICES AND REQUIREMENTS

Section 1800.1410 Ticket Payout Devices

- a) Each licensed video gaming location at which video gaming terminals are available shall have a payout device as defined in Section 1800.110.
- b) In addition to the requirement set forth in this Section, each payout device shall conform to the redemption terminal interoperability requirements approved by the Administrator and to the video gaming payout device standards approved by the Administrator. A licensed video gaming location shall only use a payout device that has received prior written approval by the Administrator. All programming

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changes or upgrades to an approved payout device shall also receive prior written approval by the Administrator.

- c) For purposes of Section 20 of the Act, a player seeking to redeem a ticket dispensed by a video gaming terminal for cash may either:
- 1) submit the ticket for full payment directly to a payout device; or
 - 2) submit the ticket for full payment to an authorized employee of the licensed video gaming location who is at least 21 years old who shall then submit the ticket into a payout device.
- d) If a video gaming terminal and/or payout device has malfunctioned or is otherwise inoperable and unable to produce a ticket or redeem a ticket, a player shall promptly receive a "facility-pay" from an employee of the licensed video gaming location or an employee of the licensed terminal operator who is at least 21 years old.
- e) All facility payments must be accounted for by the licensed terminal operator and licensed video gaming location using Generally Accepted Accounting Principles (GAAP). This shall require, at a minimum, that each licensed video gaming location shall record the following for each facility payment:
- 1) date and time of the payment event;
 - 2) amount paid;
 - 3) video gaming terminal license number, payout device number, or video gaming ticket number for which payment is made; and
 - 4) name of the individual processing the facility payment.
- f) A payout device may allow for automated teller machine (ATM) functionality for patron cash withdrawals initiated from bank cards and other similar instruments only when the material components of that functionality and any accompanying remote access communication is physically and logically segregated from the functionality for the video gaming ticket payment system. The ATM system and video gaming ticket payment system may share a single currency dispenser.

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- g) Each approved payout device shall:
- 1) ensure against manipulation, alteration or change of the approved payout device;
 - 2) be operated in such a manner as to cause immediate notification to the central communication system of any malfunction that affects the integrity of the approved payout device;
 - 3) provide for on-line real-time monitoring; and
 - 4) be subject to testing by an independent laboratory and review by the Board as deemed necessary or appropriate to ensure the continued integrity of the approved payout device or any of its component parts.
- h) [A terminal operator may sell or otherwise transfer a payout device to another terminal operator only with prior written approval of the Administrator.](#)

(Source: Amended at 37 Ill. Reg. 18843, effective November 8, 2013)

Section 1800.1420 Redemption of Tickets Following Removal or Unavailability of Ticket Payout Devices

- a) [If a licensed video gaming location changes terminal operator providers, and/or changes ticket payout systems, such that unredeemed tickets issued under the previous terminal operator or ticket payout system are no longer redeemable by the new ticket payout device at the licensed video gaming location, the licensed video gaming location shall provide facility payments to the patrons for the tickets issued under the previous terminal operator.](#)
- b) [If a licensed video gaming location closes or ceases doing business, ceases its video gaming operation, changes locations, has its video gaming license or liquor license suspended or revoked, or is otherwise unavailable or inaccessible for patrons to redeem unredeemed tickets for more than 10 consecutive days, the licensed video gaming location shall:](#)
- 1) [place a sign prominently at the location \(so long as the video gaming location licensee still has possession or control of the location\) no less than 21 x 13" that reasonably informs patrons of the name and phone](#)

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- number of the terminal operator from which patrons can seek payment for unredeemed tickets; and
- 2) prominently post a notice on any internet site and/or social media outlet under its operation or control that reasonably informs patrons of the name and phone number of the terminal operator from which patrons can seek payment for unredeemed tickets.
- c) When patrons cannot redeem outstanding tickets of a terminal operator at the video gaming location from which they were issued because of the reasons stated in subsection (a) or (b), the terminal operator shall promptly maintain and secure a list or database of all issued and unredeemed tickets from the video gaming location. The list or database must be maintained for no less than one year.

(Source: Added at 37 Ill. Reg. 18843, effective November 8, 2013)

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- 1) Heading of the Part: Illinois Youth Recreation Corps Grant Program
- 2) Code Citation: 17 Ill. Adm. Code 3075
- 3)

<u>Section Numbers</u> :	<u>Adopted Action</u> :
3075.10	Amendment
3075.20	Amendment
3075.30	Amendment
3075.40	Amendment
3075.50	Amendment
3075.60	Amendment
3075.70	Amendment
- 4) Statutory Authority: Implementing and authorized by Section 8 of the Illinois Veteran, Youth and Young Adult Conservation Jobs Act [525 ILCS 50/8]
- 5) Effective Date of Rulemaking: November 7, 2013
- 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 rulemaking, including all 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 the *Illinois Register*: August 9, 2013; 37 Ill. Reg. 12678
- 10) Has JCAR issued a Statement of Objection to this rulemaking? No
- 11) Differences between Proposal and Final Version: None
- 12) Have all the changes agreed upon by the Agency and JCAR been made as indicated in the agreements issued by JCAR? No agreements were necessary
- 13) Will this rulemaking replace any emergency rulemaking currently in effect? Yes
- 14) Are there any rulemakings pending on this Part? No

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- 15) Summary and Purpose of Rulemaking: The implementation of this program will provide a valuable opportunity for employment of Illinois youth between the ages of 14-18 as well as summer recreational activities for children of all ages.
- 16) Information and questions regarding this adopted rulemaking shall be directed to:

Shelly Knuppel, Legal Counsel
Department of Natural Resources
One Natural Resources Way
Springfield IL 62702-1271

217/782-1809

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

DEPARTMENT OF NATURAL RESOURCES

NOTICE OF ADOPTED AMENDMENTS

TITLE 17: CONSERVATION
CHAPTER I: DEPARTMENT OF NATURAL RESOURCES
SUBCHAPTER g: GRANTSPART 3075
ILLINOIS YOUTH RECREATION CORPS GRANT PROGRAM

Section

3075.10	Definitions
3075.20	Grant Program Objective
3075.30	Eligibility Requirements
3075.40	Eligible Project Costs, Payments and Compliance Requirements
3075.50	General Procedures for Grant Applications and Awards
3075.60	Project Evaluation Priorities
3075.70	Employment Criteria
3075.80	Program Information/Contact

AUTHORITY: Implementing and authorized by Section 8 of the Illinois Veteran, Youth and Young Adult Conservation Jobs Act [525 ILCS 50/8].

SOURCE: Emergency rule adopted at 35 Ill. Reg. 10967, effective July 8, 2011, for a maximum of 150 days; emergency expired November 20, 2011; adopted at 36 Ill. Reg. 11189, effective July 3, 2012; emergency amendment at 37 Ill. Reg. 8953, effective June 13, 2013, for a maximum of 150 days; amended at 37 Ill. Reg. 18865, effective November 7, 2013.

Section 3075.10 Definitions

Department – Means the Department of Natural Resources.

Hourly Rate –

The rate of payment to youth [employees hired under a grant issued under this Part employed](#) shall not be lower than the current ~~Illinois~~ minimum wage rate [established by the Minimum Wage Law \[820 ILCS 105\]](#).

[The rate of payment to managing supervisors shall not be lower than the current minimum wage rate established by the Minimum Wage Law plus \\$2.00 per hour.](#)

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The hourly rates established in this definition, and may be adjusted higher, as determined by the Department, if funds are available. Any adjustment beyond the minimum wage rate shall be identified by the Department in the grant application and grant contract.

Local Sponsor – Means any unit of local government or not-for-profit entity that can make available for a summer conservation or recreation program park lands, conservation or recreational lands or facilities, equipment, materials, administration, supervisory personnel, etc.

Managing Supervisor – Means an enrollee in the Illinois Youth Recreation Corps who is selected by the local sponsor to supervise the activities of the youth employee enrollees working on the conservation or recreation project.

Not-for-Profit Entities – Entities eligible for participation in this grant program must be recognized and/or incorporated in Illinois as not-for-profit under the provisions of the General Not For Profit Corporation Act of 1986 [805 ILCS 105], and must possess current status as exempt from taxation under section 501(c) or 501(d) of the United States Internal Revenue Code. Not-for-profit entities ~~or corporations~~ without current tax-exempt status are not eligible.

Wages – Only the hourly rate for personal services paid to the employed youth (from which applicable taxes shall be withheld). "Wages" does not include the employer's contribution or portion of any tax.

(Source: Amended at 37 Ill. Reg. 18865, effective November 7, 2013)

Section 3075.20 Grant Program Objective

- a) The Illinois Youth Recreation Corps grant program provides grants to be disbursed by the Department to eligible local sponsors to provide wages to youth working, operating and instructing in conservation or recreational programs ~~for the benefit of other youth~~.
- b) The conservation or recreational programs shall ~~provide opportunities for local youth of all age levels and shall~~ include, but are not limited to, the coordination and teaching of natural resource conservation and management, physical activities, ~~arts and handicraft~~, and learning activities directly related to natural resource conservation management or recreation.

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- c) Local sponsors may charge a user fee for participation in the [conservation or recreational program](#), as long as those fees are designed to promote as much [community involvement](#) as possible ~~by the children of the community~~.

(Source: Amended at 37 Ill. Reg. 18865, effective November 7, 2013)

Section 3075.30 Eligibility Requirements

a) To be eligible for this [grant](#) program, local sponsors must have the ability to provide suitable facilities, materials and management staff for summer [conservation or recreational programs](#) ~~activities for youth~~ within the local community.

- b) ~~Local sponsors must be units of local government or not-for-profit entities. Not-for-profit entities must have a current 501(c) status.~~

(Source: Amended at 37 Ill. Reg. 18865, effective November 7, 2013)

Section 3075.40 Eligible Project Costs, Payments and Compliance Requirements

- a) Grant assistance is available to provide wages ~~for managing supervisors and~~ eligible youth ~~supervisors, instructors, instructional aides and maintenance personnel~~ hired by the local sponsor to conduct [conservation or recreational programs](#). [Local sponsors may fill or replace any Department approved managing supervisor or youth position during the grant program with a new or different managing supervisor or youth employee.](#)
- b) Payments will be provided to the local sponsor upon completion of a grant agreement with the Department in a lump sum determined by the Department, but not to exceed 480 hours (8 hours per day multiplied by 60 days) multiplied by the hourly rate for each approved [managing supervisor and](#) eligible youth position to be hired by the local sponsor.
- c) Pursuant to this program, grant payments may only be used to pay wages for [managing supervisors and](#) eligible youth hired by local sponsors. [Further, the ratio of youth employees to a managing supervisor must not be less than 10 to 1 for any local sponsor with a total number of youth employees of 10 or more. Any local sponsor program with a total number of youth employees of less than 10 must be limited to one managing supervisor.](#)

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- d) Any grant funds provided to the local sponsor that are not expended on wages for managing supervisors or eligible youth shall be returned to the Department on or before October 31 of the year in which the grant agreement is executed.
- e) By October 31 of the year in which the grant agreement is executed, the local sponsor shall provide the Department with a report fully documenting the wages paid to all managing supervisors and eligible youth pursuant to the program grant.
- f) All financial records on approved grants must be maintained and retained, in accordance with the Grant Funds Recovery Act [30 ILCS 705] and the State Records Act [5 ILCS 160] by the local sponsor for possible State audit after final grant payment is made by the Department.
- g) The local sponsor shall indemnify, protect, defend and hold harmless the Department from any and all liability, costs, damages, expenses, or claims arising under, through, or by virtue of the administration of this program.

(Source: Amended at 37 Ill. Reg. 18865, effective November 7, 2013)

Section 3075.50 General Procedures for Grant Applications and Awards

- a) ~~Applications~~Grant applications for assistance under this grant program will be due no later than 30 days after the public announcement by the Department that applications are to be accepted. Failure to submit a completed application to the Department by the specified application deadline will result in ~~project~~ rejection of an application for that grant cycle.
- b) Necessary application materials and instructions are available through the Department (see Section 3075.80). Awarding of grants will be on a competitive basis and will be made under authority of the Director of the Department of Natural Resources.
- c) ~~Grant applicants~~Project grant applications are required to use the Department's Grant Application Form and will consist of the following basic components, at a minimum:
 - 1) applicant's name, address and telephone number;

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- 2) the name, address and telephone number of an individual representative of the applicant who is personally responsible for the grant administration by the applicant, including compliance with the requirements of this Part and the terms of the grant agreement;
- 32) a detailed description of the proposed conservation or recreational program~~project~~ and the role of eligible youth in ~~operating~~ the program~~project~~, including the number of youth and managing supervisor positions requested;
- 43) program~~project~~ location;
- 54) a statement of the need for the program~~project~~ in the local community, ~~with emphasis on the youth that would be served by the recreational project;~~
- 65) a description of the local resources available to successfully operate the recreational program~~project~~, including but not limited to facilities, materials and management; and
- 76) information on youth employment levels in the local community.

(Source: Amended at 37 Ill. Reg. 18865, effective November 7, 2013)

Section 3075.60 Project Evaluation Priorities

Application for grants will be evaluated on the basis of conservation or recreational program content, location, need, minority percentage of population served, Equalized Assessed Valuation amount for property values in the local applicant's service area, local commitment of resources, acres managed by applicant and consistency with the youth employment purpose of the Act.

(Source: Amended at 37 Ill. Reg. 18865, effective November 7, 2013)

Section 3075.70 Employment Criteria

- a) The local sponsor shall make public notification of the availability of jobs for managing supervisors and eligible youth in the Illinois Youth Recreation Corps by the means of newspapers, electronic media, educational facilities, units of local government and Department of Employment Security offices.

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- b) Employment applications shall be submitted directly to the local sponsor. The local sponsor shall make all employment decisions.
- c) Employment is limited to:
- 1) citizens of the State of Illinois;
 - 2) youth who, at the time of enrollment, are ~~14-16~~ through ~~18-19~~ years of age;
 - 3) youth who have skills that can be utilized in the summer conservation or recreational program;
 - 4) managing supervisors, who shall be 19 years of age or older;
 - 5) managing supervisors who have skills that can be utilized in supervising the activities of the youth employees working on the conservation or recreational program;
 - 64) the length of the program specified each year by the Department, but in no case~~no~~ more than 60 working days occurring during the months of June, July and August;
 - 75) youth who are not currently employed by the local sponsor; and
 - 86) the total number of approved managing supervisor and youth positions at all times.
- d) Managing supervisors and youth~~Youth~~ hired by the local sponsor shall be paid the hourly rate as defined in Section 3075.10~~State of Illinois minimum hourly wage~~.
- e) Pursuant to this program, the local sponsor is responsible for any and all legal requirements pertaining to the employment of managing supervisors and eligible youth. This specifically includes, but is not limited to, employer's share of any taxes arising from the employment of managing supervisors and eligible youth.
- f) Managing supervisor and youth~~Youth~~ hired by the local sponsor pursuant to this program are not classified as employees of the State or the local sponsor for

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purposes of contributions to the State Employees' Retirement System or any other public employee retirement system.

- g) Local sponsors must hire all [managing supervisors and youth](#) as employees. [Managing supervisors and youth](#) cannot be hired as independent contractors.
- h) Local sponsors must pay all [managing supervisors and youth](#) employees through a payroll system that produces documentation showing all such payments. Cash payments do not meet this requirement for documentation.
- i) [Local sponsors are responsible for complying with the terms and conditions of the Illinois Child Labor Law \[820 ILCS 205\]. The local sponsor should contact the Illinois Department of Labor if it has any questions about compliance with this law.](#)

(Source: Amended at 37 Ill. Reg. 18865, effective November 7, 2013)

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NOTICE OF ADOPTED RULES

- 1) Heading of the Part: Illinois Veteran Recreation Corps Grant Program
- 2) Code Citation: 17 Ill. Adm. Code 3080
- 3)

<u>Section Numbers:</u>	<u>Adopted Action:</u>
3080.10	New
3080.20	New
3080.30	New
3080.40	New
3080.50	New
3080.60	New
3080.70	New
3080.80	New
- 4) Statutory Authority: Implementing and authorized by Section 7.5 of the Illinois Veteran, Youth and Young Adult Conservation Jobs Act [525 ILCS 50/7.5]
- 5) Effective Date of Rulemaking: November 7, 2013
- 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 rulemaking, including all 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 the *Illinois Register*: August 9, 2013; 37 Ill. Reg. 12687
- 10) Has JCAR issued a Statement of Objection to this rulemaking? No
- 11) Differences between Proposal and Final Version: None
- 12) Have all the changes agreed upon by the Agency and JCAR been made as indicated in the agreements issued by JCAR? No agreements were necessary
- 13) Will this rulemaking replace any emergency rulemaking currently in effect? Yes
- 14) Are there any rulemakings pending on this Part? No

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- 15) Summary and Purpose of Rulemaking: The implementation of this program will provide a valuable opportunity for employment of Illinois veterans in operating and instruction conservation and recreational programs.
- 16) Information and questions regarding this adopted rulemaking shall be directed to:

Shelly Knuppel, Legal Counsel
Department of Natural Resources
One Natural Resources Way
Springfield IL 62702-1271

217/782-1395

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

DEPARTMENT OF NATURAL RESOURCES

NOTICE OF ADOPTED RULES

TITLE 17: CONSERVATION
CHAPTER I: DEPARTMENT OF NATURAL RESOURCES
SUBCHAPTER g: GRANTSPART 3080
ILLINOIS VETERAN RECREATION CORPS GRANT PROGRAM

Section

3080.10	Definitions
3080.20	Grant Program Objective
3080.30	Eligibility Requirements
3080.40	Eligible Project Costs, Payments and Compliance Requirements
3080.50	General Procedures for Grant Applications and Awards
3080.60	Project Evaluation Priorities
3080.70	Employment Criteria
3080.80	Program Information/Contact

AUTHORITY: Implementing and authorized by Section 7.5 of the Illinois Veteran, Youth, and Young Adult Conservation Jobs Act [525 ILCS 50/7.5].

SOURCE: Emergency rule adopted at 37 Ill. Reg. 8963, effective June 13, 2013, for a maximum of 150 days; amended at 37 Ill. Reg. 18874, effective November 7, 2013.

Section 3080.10 Definitions

Department – The Department of Natural Resources.

Hourly Rate –

The rate of payment to veteran employees hired under a grant issued under this Part shall not be lower than the current minimum wage rate established by the Minimum Wage Law [820 ILCS 105].

The rate of payment to managing supervisors shall not be lower than the current minimum wage rate established by the Minimum Wage Law plus \$2.00 per hour.

The hourly rates established in this definition may be adjusted higher, as determined by the Department, if funds are available. Any adjustment

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beyond the minimum wage rate shall be identified by the Department in the grant application and grant agreement.

Local Sponsor – Any unit of local government or not-for-profit entity that can make available for a conservation or recreational program park lands, conservation or recreational lands or facilities, equipment, materials, administration, supervisory personnel, etc.

Managing Supervisor – An enrollee in the Illinois Veteran Recreation Corps who is selected by the local sponsor to supervise the activities of the veteran employee enrollees working on the conservation or recreational program. Managing supervisors are required to be veterans.

Not-for-Profit Entities – Entities eligible for participation in this grant program must be recognized and/or incorporated in Illinois as not-for-profit under the provisions of the General Not For Profit Corporation Act of 1986 [805 ILCS 105] and must possess current status as exempt from taxation under section 501(c) or 501(d) of the United States Internal Revenue Code (26 USC 501). Not-for-profit entities without current tax-exempt status are not eligible.

Term of the Grant Program – The 6 month period identified by the local sponsor in his/her grant application as the period of time in which veterans may be employed by the local sponsor under this grant program. The term of the grant program does not have to be a consecutive 6 month period, but must end no later than 12 months after the grant execution date.

Veteran – An Illinois resident who has served or is currently serving as a member of the United States Armed Forces, a member of the Illinois National Guard, or a member of a Reserve Component of the United States Armed Forces.

Wages – Only the hourly rate for personal services paid to the employed veterans (from which applicable taxes shall be withheld). "Wages" does not include the employer's contribution or portion of any tax.

| Section 3080.20 Grant Program Objective

- a) The Illinois Veteran Recreation Corps grant program provides grants to be disbursed by the Department to eligible local sponsors to provide wages to

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veterans working, operating and instructing in conservation or recreational programs.

- b) The conservation or recreational programs shall include, but are not limited to, the coordination and teaching of natural resource conservation and management, physical activities, and learning activities directly related to natural resource conservation management or recreation.
- c) Local sponsors may charge a user fee for participation in the conservation or recreational program, as long as those fees are designed to promote as much community involvement as possible.

Section 3080.30 Eligibility Requirements

To be eligible for this grant program, local sponsors must have the ability to provide suitable facilities, materials and management staff for conservation or recreational programs within the local community.

Section 3080.40 Eligible Project Costs, Payments and Compliance Requirements

- a) Grant assistance is available to provide wages for managing supervisors and eligible veterans hired by the local sponsor to conduct conservation or recreational programs. Local sponsors may fill or replace any Department approved managing supervisor or veteran position during the grant program with a new or different managing supervisor or veteran employee.
- b) Payments will be provided to the local sponsor upon completion of a grant agreement with the Department in a lump sum determined by the Department, but not to exceed 1040 hours (40 hours per week multiplied by 26 weeks) multiplied by the hourly rate for each approved managing supervisor and eligible veteran position to be hired by the local sponsor.
- c) Pursuant to this program, grant payments may only be used to pay wages for managing supervisors and eligible veterans hired by local sponsors. Further, the ratio of veteran employees to a managing supervisor must not be less than 10 to 1 for any local sponsor with a total number of veteran employees of 10 or more. Any local sponsor program with a total number of veteran employees of less than 10 must be limited to one managing supervisor.

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- d) Any grant funds provided to the local sponsor that are not expended on wages for managing supervisors or eligible veterans shall be returned to the Department on or before the last day of the second month after the term of the grant program has ended. The Department will identify this date in the grant agreement with the local sponsor.
- e) By the last day of the second month after the term the grant program has ended, the local sponsor shall provide the Department with a report fully documenting the wages paid to all managing supervisors and eligible veterans pursuant to the program grant. The Department will identify this date in the grant agreement with the local sponsor.
- f) All financial records on approved grants must be maintained and retained in accordance with the Grant Funds Recovery Act [30 ILCS 705] and the State Records Act [5 ILCS 160] by the local sponsor for possible State audit after final grant payment is made by the Department.
- g) The local sponsor shall indemnify, protect, defend and hold harmless the Department from any and all liability, costs, damages, expenses or claims arising under, through, or by virtue of the administration of this program.

| Section 3080.50 General Procedures for Grant Applications and Awards

- a) Applications for assistance under this grant program will be due no later than 30 days after the public announcement by the Department that applications are to be accepted. Failure to submit a completed application to the Department by the specified application deadline will result in rejection of an application for that grant cycle.
- b) Necessary application materials and instructions are available through the Department (see Section 3080.80). Awarding of grants will be on a competitive basis and will be made under authority of the Director of the Department of Natural Resources.
- c) Grant applicants are required to use the Department's Grant Application Form and will consist of the following basic components, at a minimum:
 - 1) applicant's name, address and telephone number;

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- 2) the name, address and telephone number of an individual representative of the applicant who is personally responsible for the grant administration by the applicant, including compliance with the requirements of this Part and the terms of the grant agreement;
- 3) a detailed description of the proposed conservation or recreational program and the role of eligible veterans in the program, including the number of veteran and managing supervisor positions requested;
- 4) program location;
- 5) a statement of the need for the program in the local community;
- 6) a description of the local resources available to successfully operate the program, including but not limited to facilities, materials and management; and
- 7) information on employment levels in the local community.

Section 3080.60 Project Evaluation Priorities

Applications for grants will be evaluated on the basis of conservation or recreational program content, location, need, minority percentage of population served, Equalized Assessed Valuation amount for property values in the local applicant's service area, local commitment of resources, acres managed by applicant and consistency with the veteran employment purpose of the Act.

Section 3080.70 Employment Criteria

- a) The local sponsor shall make public notification of the availability of jobs for managing supervisors and eligible veterans in the Illinois Veteran Recreation Corps by means of newspapers, electronic media, educational facilities, units of local government, Illinois Department of Veterans' Affairs offices and Department of Employment Security offices.
- b) Employment applications shall be submitted directly to the local sponsor. The local sponsor shall make all employment decisions.
- c) Employment is limited to:

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- 1) citizens of the State of Illinois;
 - 2) those who, at the time of enrollment, are veterans and unemployed;
 - 3) those who, for veteran employees, have skills that can be utilized in the summer conservation or recreational program;
 - 4) those who, for managing supervisors, have skills that can be utilized in supervising the activities of the veteran employees working on the conservation or recreation program;
 - 5) the length of the program specified each year by the Department, but in no case longer than 6 total months nor greater than the maximum number of hours as determined by the Department; and
 - 6) the total number of approved managing supervisor and veterans positions at all times.
- d) Managing supervisors and veterans hired by the local sponsor shall be paid the hourly rate as defined in Section 3080.10.
 - e) Pursuant to this program, the local sponsor is responsible for any and all legal requirements pertaining to the employment of managing supervisors and eligible veterans. This specifically includes, but is not limited to, employer's share of any taxes arising from the employment of managing supervisors and eligible veterans.
 - f) Managing supervisors and veterans hired by the local sponsor pursuant to this program are not classified as employees of the State or the local sponsor for purposes of contributions to the State Employees' Retirement System or any other public employee retirement system.
 - g) Local sponsors must hire all managing supervisors and veterans as employees. Managing supervisors and veterans cannot be hired as independent contractors.
 - h) Local sponsors must pay all managing supervisors and veteran employees through a payroll system that produces documentation showing all payments. Cash payments do not meet this requirement for documentation.

Section 3080.80 Program Information/Contact

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For information on the Illinois Veteran Recreation Corps Grant Program, contact:

Illinois Department of Natural Resources
Division of Grant Administration
One Natural Resources Way
Springfield IL 62702-1271

Telephone: 217/782-7481
FAX: 217/782-9599
www.dnr.illinois.gov

DEPARTMENT OF PUBLIC HEALTH

NOTICE OF ADOPTED AMENDMENT

- 1) Heading of the Part: Emergency Medical Services and Trauma Center Code
 - 2) Code Citation: 77 Ill. Adm. Code 515
 - 3) Section Number: 515.845 Adopted Action:
Amend
 - 4) Statutory Authority: Emergency Medical Services (EMS) Systems Act [210 ILCS 50]
 - 5) Effective Date of Rulemaking: November 12, 2013
 - 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 rulemaking, 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 Rulemakings published in the *Illinois Register*: August 2, 2013; 37 Ill. Reg. 12391
 - 10) Has JCAR issued a Statement of Objection to this rulemaking? No
 - 11) Differences between Proposal and Final Version:

The following changes were made in response to comments received during the first notice or public comment period:
 1. In Section 515.845(c)(3), strike out "3)" and add "2)".
 - 12) Have all the changes agreed upon by the Agency and JCAR been made as indicated in the agreements issued by JCAR? No changes were requested.
 - 13) Will this rulemaking replace any emergency rulemaking currently in effect? No
 - 14) Are there any rulemakings pending on this Part? Yes
- | | | |
|------------------------------------|----------------------------------|---|
| <u>Section Numbers:</u>
515.100 | <u>Proposed Action:</u>
Amend | <u>Illinois Register Citation:</u>
37 Ill. Reg. 11205; July 19, 2013 |
|------------------------------------|----------------------------------|---|

DEPARTMENT OF PUBLIC HEALTH

NOTICE OF ADOPTED AMENDMENT

515.160	Amend	37 Ill. Reg. 11205; July 19, 2013
515.210	Amend	37 Ill. Reg. 11205; July 19, 2013
515.220	Amend	37 Ill. Reg. 11205; July 19, 2013
515.250	Amend	37 Ill. Reg. 11205; July 19, 2013
515.330	Amend	37 Ill. Reg. 11205; July 19, 2013
515.5000	New	37 Ill. Reg. 11205; July 19, 2013
515.5010	New	37 Ill. Reg. 11205; July 19, 2013
515.5020	New	37 Ill. Reg. 11205; July 19, 2013
515.5030	New	37 Ill. Reg. 11205; July 19, 2013
515.5040	New	37 Ill. Reg. 11205; July 19, 2013
515.5050	New	37 Ill. Reg. 11205; July 19, 2013
515.5060	New	37 Ill. Reg. 11205; July 19, 2013
515.5070	New	37 Ill. Reg. 11205; July 19, 2013
515.5080	New	37 Ill. Reg. 11205; July 19, 2013
515.5090	New	37 Ill. Reg. 11205; July 19, 2013
515.5100	New	37 Ill. Reg. 11205; July 19, 2013
515.APPENDIX D	Amend	37 Ill. Reg. 11205; July 19, 2013

- 15) Summary and Purpose of Rulemaking: Section 515.845 is being amended to implement PA 97-689, which amends the Emergency Medical Services (EMS) Systems Act to redefine the type of passenger the stretcher van may transport.
- 16) Information and questions regarding this adopted rulemaking 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
dph.rules@illinois.gov

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

DEPARTMENT OF PUBLIC HEALTH

NOTICE OF ADOPTED AMENDMENT

TITLE 77: PUBLIC HEALTH
CHAPTER I: DEPARTMENT OF PUBLIC HEALTH
SUBCHAPTER f: EMERGENCY SERVICES AND HIGHWAY SAFETY

PART 515
EMERGENCY MEDICAL SERVICES AND TRAUMA CENTER CODE

SUBPART A: GENERAL

Section	
515.100	Definitions
515.125	Incorporated and Referenced Materials
515.150	Waiver Provisions
515.160	Facility, System and Equipment Violations, Hearings and Fines
515.170	Employer Responsibility
515.180	Administrative Hearings

SUBPART B: EMS REGIONS

Section	
515.200	Emergency Medical Services Regions
515.210	EMS Regional Plan Development
515.220	EMS Regional Plan Content
515.230	Resolution of Disputes Concerning the EMS Regional Plan
515.240	Bioterrorism Grants

SUBPART C: EMS SYSTEMS

Section	
515.300	Approval of New EMS Systems
515.310	Approval and Renewal of EMS Systems
515.315	Bypass Status Review
515.320	Scope of EMS Service
515.330	EMS System Program Plan
515.340	EMS Medical Director's Course
515.350	Data Collection and Submission
515.360	Approval of Additional Drugs and Equipment
515.370	Automated Defibrillation (Repealed)
515.380	Do Not Resuscitate (DNR) Policy
515.390	Minimum Standards for Continuing Operation

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515.400	General Communications
515.410	EMS System Communications
515.420	System Participation Suspensions
515.430	Suspension, Revocation and Denial of Licensure of EMTs
515.440	State Emergency Medical Services Disciplinary Review Board
515.445	Pediatric Care
515.450	Complaints
515.455	Intra- and Inter-system Dispute Resolution
515.460	Fees
515.470	Participation by Veterans Health Administration Facilities

SUBPART D: EMERGENCY MEDICAL TECHNICIANS

Section	
515.500	Emergency Medical Technician-Basic Training
515.510	Emergency Medical Technician-Intermediate Training
515.520	Emergency Medical Technician-Paramedic Training
515.530	EMT Testing
515.540	EMT Licensure
515.550	Scope of Practice – Licensed EMT
515.560	EMT-B Continuing Education
515.570	EMT-I Continuing Education
515.580	EMT-P Continuing Education
515.590	EMT License Renewals
515.600	EMT Inactive Status
515.610	EMT Reciprocity
515.620	Felony Convictions
515.630	Evaluation and Recognition of Military Experience and Education
515.640	Reinstatement

SUBPART E: EMS LEAD INSTRUCTOR, EMERGENCY MEDICAL DISPATCHER, FIRST RESPONDER, PRE-HOSPITAL REGISTERED NURSE, EMERGENCY COMMUNICATIONS REGISTERED NURSE, AND TRAUMA NURSE SPECIALIST

Section	
515.700	EMS Lead Instructor
515.710	Emergency Medical Dispatcher
515.715	Provisional Licensure for First Responders and Emergency Medical Responders
515.720	First Responder (Repealed)

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515.725	First Responder/Emergency Medical Responder
515.730	Pre-Hospital Registered Nurse
515.740	Emergency Communications Registered Nurse
515.750	Trauma Nurse Specialist
515.760	Trauma Nurse Specialist Program Plan

SUBPART F: VEHICLE SERVICE PROVIDERS

Section	
515.800	Vehicle Service Provider Licensure
515.810	EMS Vehicle System Participation
515.820	Denial, Nonrenewal, Suspension and Revocation of a Vehicle Service Provider License
515.825	Alternate Response Vehicle
515.830	Ambulance Licensing Requirements
515.835	Stretcher Van Provider Licensing Requirements
515.840	Stretcher Van Requirements
515.845	Operation of Stretcher Vans
515.850	Reserve Ambulances
515.860	Critical Care Transport

SUBPART G: LICENSURE OF SPECIALIZED EMERGENCY
MEDICAL SERVICES VEHICLE (SEMSV) PROGRAMS

Section	
515.900	Licensure of SEMSV Programs – General
515.910	Denial, Nonrenewal, Suspension or Revocation of SEMSV Licensure
515.920	SEMSV Program Licensure Requirements for All Vehicles
515.930	Helicopter and Fixed-Wing Aircraft Requirements
515.935	EMS Pilot Specifications
515.940	Aeromedical Crew Member Training Requirements
515.945	Aircraft Vehicle Specifications and Operation
515.950	Aircraft Medical Equipment and Drugs
515.955	Vehicle Maintenance for Helicopter and Fixed-wing Aircraft Programs
515.960	Aircraft Communications and Dispatch Center
515.965	Watercraft Requirements
515.970	Watercraft Vehicle Specifications and Operation
515.975	Watercraft Medical Equipment and Drugs
515.980	Watercraft Communications and Dispatch Center

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- 515.985 Off-Road SEMSV Requirements
- 515.990 Off-Road Vehicle Specifications and Operation
- 515.995 Off-Road Medical Equipment and Drugs
- 515.1000 Off-Road Communications and Dispatch Center

SUBPART H: TRAUMA CENTERS

Section

- 515.2000 Trauma Center Designation
- 515.2010 Denial of Application for Designation or Request for Renewal
- 515.2020 Inspection and Revocation of Designation
- 515.2030 Level I Trauma Center Designation Criteria
- 515.2035 Level I Pediatric Trauma Center
- 515.2040 Level II Trauma Center Designation Criteria
- 515.2045 Level II Pediatric Trauma Center
- 515.2050 Trauma Center Uniform Reporting Requirements
- 515.2060 Trauma Patient Evaluation and Transfer
- 515.2070 Trauma Center Designation Delegation to Local Health Departments
- 515.2080 Trauma Center Confidentiality and Immunity
- 515.2090 Trauma Center Fund
- 515.2100 Pediatric Care (Renumbered)
- 515.2200 Suspension Policy for Trauma Nurse Specialist Certification

SUBPART I: EMS ASSISTANCE FUND

Section

- 515.3000 EMS Assistance Fund Administration

SUBPART J: EMERGENCY MEDICAL SERVICES FOR CHILDREN

Section

- 515.3090 Pediatric Recognition of Hospital Emergency Departments and Inpatient Critical Care Services
- 515.4000 Facility Recognition Criteria for the Emergency Department Approved for Pediatrics (EDAP)
- 515.4010 Facility Recognition Criteria for the Standby Emergency Department Approved for Pediatrics (SEDP)
- 515.4020 Facility Recognition Criteria for the Pediatric Critical Care Center (PCCC)

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515.APPENDIX A	A Request for Designation (RFD) Trauma Center
515.APPENDIX B	A Request for Renewal of Trauma Center Designation
515.APPENDIX C	Minimum Trauma Field Triage Criteria
515.APPENDIX D	Standing Medical Orders
515.APPENDIX E	Minimum Prescribed Data Elements
515.APPENDIX F	Template for In-House Triage for Trauma Centers
515.APPENDIX G	Credentials of General/Trauma Surgeons Level I and Level II
515.APPENDIX H	Credentials of Emergency Department Physicians Level I and Level II
515.APPENDIX I	Credentials of General/Trauma Surgeons Level I and Level II Pediatric Trauma Centers
515.APPENDIX J	Credentials of Emergency Department Physicians Level I and Level II Pediatric Trauma Centers
515.APPENDIX K	Application for Facility Recognition for Emergency Department with Pediatrics Capabilities
515.APPENDIX L	Pediatric Equipment Recommendations for Emergency Departments
515.APPENDIX M	Inter-facility Pediatric Trauma and Critical Care Consultation and/or Transfer Guideline
515.APPENDIX N	Pediatric Critical Care Center (PCCC)/Emergency Department Approved for Pediatrics (EDAP) Recognition Application
515.APPENDIX O	Pediatric Critical Care Center Plan
515.APPENDIX P	Pediatric Critical Care Center (PCCC) Pediatric Equipment/Supplies/Medications Requirements

AUTHORITY: Implementing and authorized by the Emergency Medical Services (EMS) Systems Act [210 ILCS 50].

SOURCE: Emergency Rule adopted at 19 Ill. Reg. 13084, effective September 1, 1995 for a maximum of 150 days; emergency expired January 28, 1996; adopted at 20 Ill. Reg. 3203, effective February 9, 1996; emergency amendment at 21 Ill. Reg. 2437, effective January 31, 1997, for a maximum of 150 days; amended at 21 Ill. Reg. 5170, effective April 15, 1997; amended at 22 Ill. Reg. 11835, effective June 25, 1998; amended at 22 Ill. Reg. 16543, effective September 8, 1998; amended at 24 Ill. Reg. 8585, effective June 10, 2000; amended at 24 Ill. Reg. 9006, effective June 15, 2000; amended at 24 Ill. Reg. 19218, effective December 15, 2000; amended at 25 Ill. Reg. 16386, effective December 20, 2001; amended at 26 Ill. Reg. 18367, effective December 20, 2002; amended at 27 Ill. Reg. 1277, effective January 10, 2003; amended at 27 Ill. Reg. 6352, effective April 15, 2003; amended at 27 Ill. Reg. 7302, effective April 25, 2003; amended at 27 Ill. Reg. 13507, effective July 25, 2003; emergency amendment at 29 Ill. Reg. 12640, effective July 29, 2005, for a maximum of 150 days; emergency expired December 25, 2005; amended at 30 Ill. Reg. 8658, effective April 21, 2006; amended at 32 Ill. Reg. 16255,

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effective September 18, 2008; amended at 35 Ill. Reg. 6195, effective March 22, 2011; amended at 35 Ill. Reg. 15278, effective August 30, 2011; amended at 35 Ill. Reg. 16697, effective September 29, 2011; amended at 35 Ill. Reg. 18331, effective October 21, 2011; amended at 35 Ill. Reg. 20609, effective December 9, 2011; amended at 36 Ill. Reg. 880, effective January 6, 2012; amended at 36 Ill. Reg. 2296, effective January 25, 2012; amended at 36 Ill. Reg. 3208, effective February 15, 2012; amended at 36 Ill. Reg. 11196, effective July 3, 2012; amended at 36 Ill. Reg. 17490, effective December 3, 2012; amended at 37 Ill. Reg. 5714, effective April 15, 2013; amended at 37 Ill. Reg. 7128, effective May 13, 2013; amended at 37 Ill. Reg. 10683, effective June 25, 2013; amended at 37 Ill. Reg. 18883, effective November 12, 2013.

SUBPART F: VEHICLE SERVICE PROVIDERS

Section 515.845 Operation of Stretcher Vans

- a) No stretcher van may be operated with a crew of fewer than two trained attendants. One trained attendant shall remain with the passenger.
- b) All stretcher van attendants shall be CPR certified and have received basic training in the operation of stretchers.
- c) *A stretcher van provider may provide transport of a passenger on stretcher provided the passenger meets all of the following requirements:*
 - ~~1)~~ *He or she needs no medical equipment, except self-administered medications;*
 - ~~1)2)~~ *He or she needs no medical monitoring or clinical observation; He or she needs no medical monitoring or medical observation;*
 - ~~2)3)~~ *He or she needs routine non-emergent transportation to or from a medical appointment or service if he or she is convalescent or otherwise bed confined and does not require clinical observation ~~medical monitoring~~, aid, care, or treatment during transport. (Section 3.86(c) of the Act)*
- d) Examples of appropriate stretcher van transport include, but are not limited to, transport from a passenger's home to another residential setting, a medical appointment or a therapy session.

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- e) *A stretcher van provider shall not transport a passenger who meets any of the following conditions:*
- 1) *He or she is being transported to a hospital for emergency medical treatment;~~He or she is currently admitted to a hospital or is being transported to a hospital for admission or urgent emergency treatment;~~*
 - 2) *He or she is experiencing an emergency medical condition or needs active medical monitoring, including isolation precautions, supplemental oxygen that is not self-administered, continuous airway management, suctioning during transport, or the administration of intravenous fluids during transport. (Section 3.86(d) of the Act)~~He or she is acutely ill, wounded or medically unstable as determined by a licensed physician;~~*
 - 3) *~~He or she is experiencing an emergency medical condition, an acute medical condition, an exacerbation of a chronic medical condition, or a sudden illness or injury;~~*
 - 4) *~~He or she was administered a medication that might prevent the passenger from caring for himself or herself;~~*
 - 5) *~~He or she was moved from one environment where 24-hour medical monitoring or medical observation will take place by certified or licensed nursing personnel to another such environment. Such environments shall include, but not be limited to, hospitals licensed under the Hospital Licensing Act or operated under the University of Illinois Hospital Act, and nursing facilities licensed under the Nursing Home Care Act. (Section 3.86(d) of the Act)~~*
- f) Examples of inappropriate transports by stretcher vans include:
- 1) Passengers who, by nature of their illness or injury, are likely to encounter complications and are likely to require medical care in route;
 - 2) Passengers whose physical or mental state prevents them from cooperating with the stretcher van operators (e.g., senile dementia/Alzheimer's, mentally unstable individuals or passengers who present a risk of elopement).

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(Source: Amended at 37 Ill. Reg. 18883, effective November 12, 2013)

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- 1) Heading of the Part: Commercial Driver Training Schools
- 2) Code Citation: 92 Ill. Adm. Code 1060
- 3)

<u>Section Numbers:</u>	<u>Adopted Action:</u>
1060.20	Amend
1060.50	Amend
1060.120	Amend
1060.200	Amend
- 4) Statutory Authority: 625 ILCS 5/2-104; 625 ILCS 5/6-419
- 5) Effective Date of Rulemaking: November 5, 2013
- 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 rulemaking, including any material incorporated by reference, is on file in the Department's Division of Driver's Services, and is available for public inspection.
- 9) Notice of Proposed published in the *Illinois Register*: 37 Ill. Reg. 11985, July 26, 2013
- 10) Has JCAR issued a Statement of Objection to this rulemaking? No
- 11) Differences between Proposal and Final Version: None
- 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 rulemakings pending on this Part? No
- 15) Summary and Purpose of Rulemaking: This rulemaking amends 1060.20 and 1060.120 to strike provisions relating to the execution of a release to investigate an applicant's criminal history. Pursuant to 625 ILCS 5/6-402 and 6-411, applicants to own a

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commercial driving school or to each at such a school are required to pass a criminal background investigation. During the 97th General Assembly, PA 97-835 amended 6-402 and 6-411 to clarify that the results of the investigation can be used in an administrative hearing. Therefore, it is no longer necessary to include these two provisions in the rule.

The proposed amendment to 1060.50 will allow a commercial driving school to share the same building as another business, so long as the school has a separate entrance. Currently, a school must have a direct entrance from the exterior of the building. The proposed rulemaking will provide schools with greater flexibility in the location of their facilities.

The proposed rulemaking to 1060.200 encompasses several changes:

- Sets forth specific requirements for the training lot for CDL-accredited commercial driver training schools;
- Provides that the 160 hours of classroom instruction must be completed within a 9-month period;
- Increases the minimum hour of range and over the road instruction from 16 to 20 and increases the minimum number hours of observation from 10 to 20;
- When remedial training is necessary, eliminates observation as one of the methods allow and as such, decreases the minimum hours from 78 to 60;
- Generally re-organizes the Section (for example, practice driving was moved from the classroom paragraph to the behind-the-wheel paragraph);
- To provide for greater flexibility and recognizing that many students are working fulltime, eliminates the requirement that each class have a definitive starting and completion date. This allows the students to schedule the behind-the-wheel training so as to not conflict with their employment.

16) Information and questions regarding this adopted rulemaking shall be directed to:

Jennifer Egziii
Office of the Secretary of State
Driver Services Department
2701 South Dirksen Parkway
Springfield, Illinois 62723

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217/557-4462

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

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TITLE 92: TRANSPORTATION
CHAPTER II: SECRETARY OF STATEPART 1060
COMMERCIAL DRIVER TRAINING SCHOOLS

Section	
1060.5	Definitions
1060.10	Unlicensed Person May Not Operate Driver Training School
1060.20	Requirements for School Licenses
1060.30	Driver Training School Names
1060.40	Refund of Application Fees
1060.50	School Locations and Facilities
1060.60	Driver Training School Student Instruction Record
1060.70	Driver Training School Course of Instruction
1060.80	Driver Training School Contracts
1060.90	Inspection of School Facilities
1060.100	Licenses
1060.110	Safety Inspection of Driver Training School Motor Vehicles
1060.120	Requirements to Obtain and Retain a Driver Training Instructor's License
1060.130	Examination for Driver Training Instructor
1060.140	Temporary Permit
1060.150	Driver Training School Responsibility for Employees
1060.160	Solicitation of Students and Pupils for Commercial Driver Training Instruction
1060.170	Hearings
1060.180	Teen Accreditation
1060.181	Teen Accreditation Classroom and Behind-the-Wheel Requirements
1060.190	Denial, Cancellation, Suspension, and Revocation of Commercial Driver Training School's License, Teen Accreditation, CDL Accreditation, and Instructor's License
1060.200	Commercial Driver's License and/or Endorsement and/or Accreditation
1060.210	Driver Training School Responsibility for Employees (Recodified)
1060.220	Solicitation of Students and Pupils for Commercial Driver Training Instruction (Recodified)
1060.230	Hearings (Recodified)
1060.240	Teen Accreditation (Recodified)
1060.250	Denial, Cancellation, Suspension, and Revocation of Commercial Driver Training School's License and Instructor's License (Recodified)
1060.260	Commercial Driver's License and/or Endorsement and/or Restriction

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Accreditation (Recodified)

AUTHORITY: Implementing Article IV of the Illinois Driver Licensing Law of the Illinois Motor Vehicle Code [625 ILCS 5/Ch. 6, Art. IV] and authorized by Section 2-104(b) of the Illinois Title and Registration Law of the Illinois Vehicle Code [625 ILCS 5/2-104(b)].

SOURCE: Filed March 2, 1972; codified at 6 Ill. Reg. 12697; transferred from 23 Ill. Adm. Code 252.50 (State Board of Education) pursuant to Section 5-80(d) of the Illinois Administrative Procedure Act [5 ILCS 100/5-80(d)] and Section 6-411 of the Illinois Driver Licensing Law of the Illinois Vehicle Code [625 ILCS 5/6-411] at 11 Ill. Reg. 1631, effective December 31, 1986; amended at 11 Ill. Reg. 17244, effective October 13, 1987; amended at 12 Ill. Reg. 13203, effective August 1, 1988; amended at 12 Ill. Reg. 19756, effective November 15, 1988; amended at 14 Ill. Reg. 8658, effective May 18, 1990; recodified at 17 Ill. Reg. 20006, effective November 3, 1993; amended at 18 Ill. Reg. 7788, effective May 9, 1994; amended at 20 Ill. Reg. 3861, effective February 14, 1996; amended at 22 Ill. Reg. 22069, effective December 2, 1998; emergency amendment at 24 Ill. Reg. 8403, effective June 2, 2000, for a maximum of 150 days; amended at 24 Ill. Reg. 15443, effective October 5, 2000; amended at 25 Ill. Reg. 6409, effective April 26, 2001; amended at 26 Ill. Reg. 15020, effective October 1, 2002; emergency amendment at 28 Ill. Reg. 398, effective December 22, 2003, for a maximum of 150 days; emergency expired May 19, 2004; amended at 28 Ill. Reg. 11925, effective July 26, 2004; amended at 30 Ill. Reg. 11377, effective June 14, 2006; amended at 31 Ill. Reg. 16008, effective November 16, 2007; amended at 33 Ill. Reg. 15811, effective October 27, 2009; amended at 34 Ill. Reg. 19099, effective November 22, 2010; amended at 37 Ill. Reg. 4295, effective March 20, 2013; amended at 37 Ill. Reg. 18893, effective November 5, 2013.

Section 1060.20 Requirements for School Licenses

- a) The Secretary of State shall not issue, or shall deny, cancel, suspend or revoke, a driver training school license:
 - 1) Unless the applicant has at least one motor vehicle owned or leased in the name of the driver training school or school owner indicated on the license, and registered by the Secretary of State Vehicle Services Department, that has been safety inspected and insurance certified as required in subsection (e) for use by the school for driver training purposes and driving instruction.
 - 2) Unless the applicant has at least one person who is employed by or associated with the school, and who is licensed or qualified to be licensed

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by the Department as a driver training instructor for that school.

- 3) Unless the physical facilities meet the requirements of this Part.
- 4) Unless the applicant is of good moral character as required pursuant to IVC Section 6-402(a). In making a determination of good moral character, the Department is not limited to, but may consider, the following:
 - A) Whether the applicant has been convicted of a felony or a misdemeanor. The Department shall consider:
 - i) The relationship of any crime of which the applicant has been convicted to the ability to operate a driver training school;
 - ii) The length of time that has elapsed since the applicant's last criminal conviction;
 - iii) Whether the applicant successfully completed any sentence imposed with the convictions;
 - iv) Whether the applicant has multiple convictions for felony or misdemeanor offenses.
 - B) If the person has been indicted, formally charged or otherwise charged with a felony or a misdemeanor, the license shall be either denied or cancelled.
 - i) If the person whose commercial driver training school license has been denied or cancelled under this Part is adjudicated "guilty" by the court systems, the denial or cancellation previously entered on his/her record in accordance with Section 1060.190(b) shall stand. This action does not preclude further suspension and/or revocation of the commercial driver training school license under another Section of this Part or the ~~IVC~~Illinois Vehicle Code.

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- ii) If the person whose commercial driver training school license has been denied or cancelled under this Part is adjudicated "not guilty" by the court systems, the denial or cancellation previously entered on the license in accordance with Section 1060.190(b) shall be rescinded. This action does not preclude further suspension and/or revocation of the commercial driver training school license under another Section of this Part or the ~~IVC~~Illinois ~~Vehicle Code~~.
 - iii) If the person whose commercial driver training school license has been denied or cancelled under this Part is granted a disposition of "court supervision" by the court systems, the denial or cancellation previously entered on the license in accordance with Section 1060.190(b) shall be rescinded. This action does not preclude further suspension and/or revocation of the commercial driver training school license under another Section of this Part or the ~~IVC~~Illinois ~~Vehicle Code~~.
- 5) To any licensed school owner who, during the course of any and all interaction with students:
- A) engaged in activity that puts the student in danger; or
 - B) engaged in reckless behavior; or
 - C) failed to maintain a professional relationship with students at all times.
- b) Only one driver training school license shall be issued to any individual, group, association, partnership or corporation, and the Department shall deny the application of any driver training school if any of the applicants are unqualified or are already licensed or have made application for another driver training school license.
- c) The applicant shall not be a current salaried or contractual employee of the Secretary of State, as mandated by the guidelines of the Secretary of State's Office policy manual that states that an employee shall not advocate or promote specific

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professional or commercial services to the public in matters under the jurisdiction of the Office of the Secretary of State.

- d) No accreditation program shall remain in operation if properly qualified personnel are not available or if other changes occur that would reduce its qualifications. Exception: in the event of fire, flood or other catastrophe, the school may temporarily continue to operate with facilities that are not up to standards only for the duration of the courses that have been started, if the Director of the Department consents. A Secretary of State employee shall determine that no health or safety hazard exists in violation of any local ordinance or State or federal law or regulation before the Director of the Department shall give consent. No new course can be started until facilities meet the minimum requirements for licensing.
- e) No driver training school shall operate in the State of Illinois unless it provides and files with the Department a continuous surety bond in the principal sum of \$10,000 for a non-accredited school, \$40,000 for a CDL or teenage accredited school, \$60,000 for a CDL accredited and teenage accredited school, \$50,000 for a CDL or teenage accredited school with three or more licensed branches, \$70,000 for a CDL accredited and teenage accredited school with three or more licensed branches, underwritten by a company authorized to do business in the State of Illinois, for the protection of the contractual rights of students as provided in IVC Section 6-402(e). All bonds filed pursuant to this provision shall be in substantially the following form:

Know All Persons by These Presents, That We, _____, of _____, hereinafter referred to as Principal and _____, a corporation organized and existing to do business in the State of Illinois, for the use and benefit of all persons who may be damaged by breach of this bond, as Obligees, in the penal sum of \$10,000 for a non-accredited school, \$40,000 for a CDL or teenage accredited school, \$60,000 for a CDL accredited and teenage accredited school, \$50,000 for a CDL or teenage accredited school with three or more licensed branches, \$70,000 for a CDL accredited and teenage accredited school with three or more licensed branches, lawful money of the United States of America, for the payment of which sum, well and truly to be made, we bind ourselves, our executors, administrators, successors and assigns, firmly by these presents. The condition of this obligation is such that the principal has made

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application for a license or permit to the State of Illinois for the purpose of exercising the vocation of a driver training school. If the Principal faithfully complies with the Illinois Vehicle Code and all rules and regulations that have been or may hereafter be in force concerning the license or permit, and shall save and keep harmless the Obligees from all loss or damage that may be sustained as a result of the issuance of the license or permit to the Principal, this obligation shall be void; otherwise, this obligation shall remain in full force and effect. The bond will expire but may be continued by renewal certificate signed by Principal and Surety. The Surety may at any time terminate its liability by giving 30 days written notice to the Commercial Driver Training Section of the Department, 650 Roppolo Drive, Elk Grove Village, Illinois 60007, and the Surety shall not be liable for any default after that 30 day notice period, except for defaults occurring prior thereto.

Signed, Sealed and Dated this _____ day of _____, 20__.

Principal _____

Surety _____

By _____

Attorney-in-fact

- f) Upon receipt of a properly executed application for a driver training school license, or driver training instructor's license, the Department shall investigate the qualifications of the applicant, and authorized representatives shall inspect the school property and equipment to determine whether the application should be granted or denied.
- g) An owner or manager shall not engage in fraudulent activity as defined in Section 1060.5.
- h) An owner or employee of a commercial driver training school shall not have been declared to have engaged in fraudulent activity within the 5 years prior to making application.
- i) Licenses shall be issued by the Department.
- j) An owner shall not have possession of questionnaires used by the Driver Services Department in conjunction with administering driver's license examinations. This

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includes questionnaires purposely or inadvertently obtained from any Secretary of State employee or any individual acting on behalf of the Secretary of State.

- k) An owner shall not knowingly use unlicensed instructors for the purpose of classroom or behind the wheel instruction.
- l) An owner or applicant shall not be employed as an administrator and/or teacher of a State-approved high school driver education program.
- m) An owner of a commercial driver training school that provides motorcycle instruction shall not provide any person with an Illinois Department of Transportation Rider Education Course Completion Card.
- n) An individual whose commercial driver training school license has been denied, cancelled, suspended or revoked pursuant to this Part may request an administrative hearing pursuant to 92 Ill. Adm. Code 1001.
- o) ~~If an applicant indicates that he/she has been convicted of a felony, the applicant shall submit a signed release allowing the Department to obtain any information regarding the applicant's arrest and conviction, thereby enabling the Department to determine the fitness of an applicant to be licensed as an instructor, including for use at an administrative hearing should one be requested.~~

(Source: Amended at 37 Ill. Reg. 18893, effective November 5, 2013)

Section 1060.50 School Locations and Facilities

- a) Each driver training school must comply with IVC Section 6-409 ~~of the Illinois Vehicle Code [625 ILCS 5/6-409]~~. In addition, the branch classroom shall be identified as such by a permanent sign which indicates the location of the main office and classroom and which is reasonably visible to the general public from outside the branch classroom.
- b) The established place of business of each driver training school shall comply with IVC Section 6-406 ~~of the Illinois Vehicle Code [625 ILCS 5/6-406]~~ and, in addition:
 - 1) The main office and each branch office shall have a minimum of 150 square feet of office space;

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- 2) Each school facility must post, in a conspicuous place, on or near the permanent school sign, the days and regular hours when open. A school shall not be deemed open for business unless at least one authorized representative of the school is present; and
- 3) The main office and each branch office of the driver training school ~~shall have direct access from the outside. Any business~~ may be ~~conducted~~ in the same building with another business, providing the other business being conducted is legal and that the business has its own entrance.
- c) The established place of business or branch office, branch classroom or advertised address of any driver training school shall comply with all restrictions contained in IVC Section 6-405(b) ~~of the Illinois Vehicle Code [625 ILCS 5/6-405]~~.
- d) Each established main office and branch office facility must maintain a place of business which shall be open to the general public during posted hours on file with the Secretary of State, a minimum of 8 hours per week. The 8 hours must be on Monday through Friday between the hours of 7 a.m. and 5 p.m.
- e) The classroom facility shall contain the following:
 - 1) Sufficient seating facilities and writing surfaces for students;
 - 2) Charts, diagrams, traffic control devices, or pictures relating to the operation of motor vehicles and traffic laws;
 - 3) Blackboards or other forms of illustrative devices which are visible from all seating areas;
 - 4) Textbooks, reference books and pamphlets relating to the proper operation of motor vehicles and traffic laws;
 - 5) Adequate fire extinguishers in operable condition as required pursuant to IVC Section 6-406(c) ~~of the Illinois Drivers Licensing Law of the Illinois Vehicle Code~~.
- f) Each main classroom or branch classroom shall have:

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- 1) a minimum of 300 square feet of classroom space and the main classroom shall be within close proximity of the main office facility;
 - 2) installed a heating and ventilating system adequate to maintain a comfortable room temperature for the occupants;
 - 3) installed an adequate lighting system so as to provide sufficient lighting for the occupants.
- g) A driver training school that has an established place of business and a main classroom facility may operate a branch classroom, provided it meets all requirements of the main classroom.
- 1) Upon receipt by the Department of a written request to open a branch classroom or branch office, an authorized representative of the Department shall inspect the branch office or branch classroom, and, if it complies with the provisions of IVC Section 6-406(e) ~~of the Illinois Driver Licensing Law of the Illinois Vehicle Code~~ and this Part, the Department shall issue the appropriate license, which must be displayed in a visibly prominent place in the branch facility.
 - 2) When a branch facility is to be closed, the driver training school shall return the branch facility's license to the Secretary of State in a timely manner.

(Source: Amended at 37 Ill. Reg. 18893, effective November 5, 2013)

Section 1060.120 Requirements to Obtain and Retain a Driver Training Instructor's License

- a) The Secretary of State shall not issue, or shall deny, cancel, suspend or revoke, a driver training instructor's license:
 - 1) To any person who:
 - A) has not held a valid driver's license for any 2 year period preceding the date of application for an instructor's license;
 - B) intends to instruct in L and/or M classification, as defined in 92 Ill.

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Adm. Code 1030.30(e) and (f); and

- C) has not held the representative classification for 3 consecutive years immediately prior to the date of application;
- 2) To any person who has been convicted of 3 or more offenses against traffic regulations governing the movement of traffic within the 2 year period immediately preceding the date of application for an instructor's license;
 - 3) To any person who has had 2 or more convictions of a violation that caused an auto accident within the 2 year period immediately preceding the date of application for an instructor's license;
 - 4) To any person who has been convicted of driving under the influence of alcohol and/or other drugs, pursuant to IVC Section 11-501, leaving the scene of a fatal accident, pursuant to IVC Section 11-401, reckless homicide, pursuant to Section 9-3 of the Criminal Code of 2012 [720 ILCS 5/9-3], reckless driving, pursuant to IVC Section 11-503, or any sex or drug related offense within 10 years prior to the date of application; or to any person with more than one of these convictions;
 - 5) To any person who has failed to pass the written, vision, or road test required by the Department for applicants for a driver training instructor's license;
 - 6) To any person who is physically unable to safely operate a motor vehicle or to safely instruct or train others in the operation of a motor vehicle as determined by a licensed physician pursuant to IVC Section 6-411(d). An application/medical examination form provided by the Secretary of State shall be completed by the applicant and physician. The physician's medical examination form shall contain the applicant's ability to safely operate a motor vehicle. The form shall also contain an indication of the person's eyesight, hearing, mental alertness, reflexes, and whether the person has normal use of his/her limbs and feet. The physician must also provide his/her address and the date and place of the examination. Those persons who are solely classroom instructors shall comply with subsection (d) ~~of this Section~~;

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- 7) To any person who fails to properly and fully complete an application for a license or otherwise indicates that he/she is unqualified to receive a driver training instructor's license;
- 8) To any person who is not employed or associated with a driver training school licensed by the Department as required pursuant to IVC Section 6-417;
- 9) To any person who is currently a salaried or contractual employee of the Secretary of State, as mandated by the guidelines of the Secretary of State's Office policy manual that states that an employee shall not advocate or promote specific professional or commercial services to the public in matters under the jurisdiction of the Office of the Secretary of State;
- 10) To any person who fails to supply a complete set of fingerprints to the Department as required pursuant to IVC Section 6-411(b);
- 11) To any person who is not at least 21 years of age and a resident of the State of Illinois;
- 12) To any person who has failed to comply with the provisions of this Part pursuant to IVC Section 6-411(d);
- 13) To any person who is not of good moral character as required pursuant to IVC Section 6-411(a). In making a determination of good moral character, the Department is not limited to, but may consider the following:
 - A) If the person has been convicted of a felony or misdemeanor. The Department shall consider:
 - i) The relationship of any crime of which the person has been convicted to the ability to operate a driver training school;
 - ii) The length of time that has elapsed since the owner's last criminal conviction;

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- iii) Whether the applicant successfully completed any sentence imposed with the convictions;
 - iv) Whether the applicant has multiple convictions for felony or misdemeanor offenses.
- B) If the person has been indicted or formally or otherwise charged with a felony or a misdemeanor, the license shall be either denied or cancelled.
- i) If the person whose commercial driver training school instructor license has been denied or cancelled under this Part is adjudicated "guilty" by the court systems, the denial or cancellation previously entered on his/her record in accordance with Section 1060.190(b) shall stand. This action does not preclude further suspension and/or revocation of the commercial driver training school instructor license under another Section of this Part or the ~~IVC~~[Illinois Vehicle Code](#).
 - ii) If the person whose commercial driver training school instructor license has been denied or cancelled under this Part is adjudicated "not guilty" by the court systems, the denial or cancellation previously entered on the license in accordance with Section 1060.190(b) shall be rescinded. This action does not preclude further suspension and/or revocation of the commercial driver training school instructor license under another Section of this Part or the ~~IVC~~[Illinois Vehicle Code](#).
 - iii) If the person whose commercial driver training school instructor license has been denied or cancelled under this Part is granted a disposition of "court supervision" by the court systems, the denial or cancellation previously entered on the license in accordance with Section 1060.190(b) shall be rescinded. This action does not preclude further suspension and/or revocation of the commercial driver training school instructor license under another Section of this Part or the ~~IVC~~[Illinois Vehicle Code](#);

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- 14) To any person whose suspension under IVC Section 11-501.1, 11-501.6 or 11-501.8 has terminated within 10 years prior to the date of application; or to any person with more than one of the above suspensions under IVC Section 11-501.1 or 11-501.6;
- 15) To any person who has not completed a 30-hour course or an equivalent college or university course approved by the Director of the Department.
- A) Any person possessing a current and valid commercial driver training instructor's license, or who is renewing a commercial driver training license issued by the Secretary of State's Office, shall be exempt from this requirement.
- B) A driver training school whose instructor provides training to individuals under the age of 18 years is exempt from this requirement and must complete the mandatory 48 hour course as required in Section 1060.180;
- 16) To any person currently licensed by the Secretary of State as a Third Party Certification Program Safety Officer;
- 17) To any instructor or applicant who is an administrator and/or teacher of a State-approved high school driver education program;
- 18) To any currently licensed instructor who has been convicted of violating IVC Section 11-507 or to an applicant who has been convicted of violating IVC Section 11-507 within 10 years prior to the date of application.

~~b) If an applicant indicates that he/she has been convicted of a felony, the applicant shall submit a signed release allowing the Department to obtain any information regarding the applicant's arrest and conviction, thereby enabling the Department to determine the fitness of an applicant to be licensed as an instructor, including for use at an administrative hearing should one be requested.~~

be) No driver training instructor shall provide behind-the-wheel instruction in a vehicle that is classified higher than the classification of the instructor's driver's license. An instructor may hold two classifications: one classification from Classes A, B, C and D, and one classification from Classes L and M, as defined in

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92 Ill. Adm. Code 1030.30. An instructor holding a Class A commercial driver's license may teach students to drive all Class A, B, C and D vehicles. An instructor holding a Class B commercial driver's license may teach students to drive all Class B, C and D vehicles. An instructor holding a Class C commercial driver's license may teach students to drive all Class C and D vehicles. However, an instructor holding a non-commercial driver's license may only teach students who do not require a commercial driver's license. An instructor holding a Class M license may teach students to drive all Class L and M vehicles.

- | cd) Any person who is physically unable to safely operate a motor vehicle but meets all other requirements to be a driver training instructor shall be able to teach only the classroom portion of the driver training course upon receipt of a doctor's statement indicating the person is physically able to teach in the classroom. The person shall also pass the vision test, as provided in 92 Ill. Adm. Code 1030.70, the written test, as provided in 92 Ill. Adm. Code 1030.80, and the highway safety sign test, and shall submit all applicable fees as set out in IVC Section 6-411 before being issued an instructor's license for classroom instruction only.
- | de) All instructors who have ceased to be employed or associated with the designated school on their license must submit a new complete instructor's license application and application fee before being licensed to instruct at another school or in the same school after such cessation.
- | ef) If a driver training instructor license is not renewed within one year after the previous year's expiration date, the applicant shall be required to take examinations pursuant to Section 1060.130.
- | fg) An instructor shall not engage in fraudulent activity as defined in Section 1060.5.
- | gh) During any and all interaction with students, an instructor:
 - 1) shall not engage in activity that puts the student in danger;
 - 2) shall not engage in reckless behavior; and
 - 3) shall maintain a professional relationship with students at all times.
- | hi) An instructor shall not have possession of questionnaires used by the Driver Services Department in conjunction with administering driver's license

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examinations. This includes questionnaires purposely or inadvertently obtained from any Secretary of State employee or any individual acting on behalf of the Secretary of State.

- | **ij)** An individual whose commercial driver training school instructor license has been cancelled pursuant to this Part may request an administrative hearing pursuant to 92 Ill. Adm. Code 1001.
- | **jk)** An instructor of a commercial driver training school that provides motorcycle instruction shall not provide any person with an Illinois Department of Transportation Rider Education Course Completion Card.

(Source: Amended at 37 Ill. Reg. 18893, effective November 5, 2013)

Section 1060.200 Commercial Driver's License and/or Endorsement and/or Accreditation

- | a) Accreditation of the Program—
Each commercial driver training school that desires to offer instruction to those individuals who wish to obtain a CDL and/or endorsement and/or restriction must be accredited by the Secretary of State through the Department of Driver Services before instruction can be offered or advertised.
 - 1) Upon receipt of proper application for accreditation, the Secretary of State shall investigate the program and verify the information contained in the application. A Secretary of State employee shall contact the applicant and make an appointment to inspect the school's facilities. At the time of inspection, the Secretary of State employee shall verify that the school meets the standards for CDL accreditation set forth in this Section 1060.200(b) through (e) in addition to all other applicable Sections within this Part. These standards shall be furnished to the school by the Secretary of State before the visit, if the school requests them. If all qualifications and standards are met, the school shall be accredited to offer instruction on how to operate a vehicle with CDL and/or endorsement and/or restriction classification.
 - 2) The accreditation of each school is renewable upon the expiration date of the school license, provided all qualifications and standards are met and the school has been in compliance with this Part.

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- 3) Only qualified teaching personnel who already possess a CDL and/or endorsement and/or restriction classification may teach the drive portion of instruction.
- b) ~~Required Facilities—All CDL, endorsement and/or restriction accredited schools must provide all classroom and vehicle facilities and equipment prescribed in IVC Chapter 6, Article IV and Section 1060.50. Those who desire to provide instruction to persons who wish to obtain a CDL, endorsement and/or restriction classified license must additionally provide a vehicle training area, owned or leased by the school, with sufficient space to properly accommodate the number of vehicles the school has in operation and appropriate off-street maneuvers.~~
- 1) All CDL, endorsement and/or restriction accredited schools must provide all classroom and vehicle facilities and equipment prescribed in IVC Chapter 6, Article IV and Section 1060.50.
- 2) Those who desire to provide instruction to persons who wish to obtain a CDL, endorsement and/or restriction classified license must additionally provide a vehicle training area, owned or leased by the school. The area must:
- A) be a minimum of 27,000 square feet;
- B) be made of a solid surface and be able to accept paint, which includes but is not limited to concrete, asphalt and crushed compacted limestone;
- C) have adequate lighting, approved by the Secretary of State, which is required for yard instruction to take place after dark;
- D) have adequate parking space to accommodate all students when in the training area;
- E) be maintained and be free of disrepair, including, but not limited to, potholes and ruts; and
- F) contain restroom facilities if the school's main or branch location is not within 100 feet of the training facility.

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c4) Required Course of Instruction:

1A) CDL accredited driving schools must administer driving instruction that corresponds to a curriculum provided to the school by the Secretary of State. Each CDL accredited driving school must provide the minimum of 160 hours of instruction in not less than a 4 week period to each student, as indicated in the curriculum. A student must complete the 160 hours of instruction within 9 months after starting instruction.

2B) The following curriculum must be offered to each first time CDL student in a minimum of 4 weeks. Each student must receive 160 hours of CDL instruction as outlined in this subsection (b)(1)(B). The training schedule outlined must follow the Illinois Occupational Skill Standards, Entry-Level Truck Driver Manual (March 1999) endorsed for Illinois by the Illinois Occupational Skill Standards and Credentialing Counsel. This manual is available from the Secretary of State Driver Facility, 650 Roppolo Drive, Elk Grove Village IL 60007.

Ai) Classroom. 40 hours of classroom instruction; this includes, but is not limited to, preparation for the Secretary of State's written examinations and all chapters of this curriculum.

Bi) Range. A minimum of 2016 hours of ~~vehicle training area~~ behind-the-wheel instruction. This requires one-on-one instruction with a properly licensed CDL instructor and vehicle on an approved vehicle training area.

Ciii) Over the Road. A minimum of 2016 hours of behind-the-wheel instruction on public streets and highways. This requires one-on-one instruction with a properly licensed CDL instructor and vehicle.

Div) Observation. 2010 hours of observation experience composed of behind-the-wheel range observation of the vehicle training area and over-the-road training.

Eiv) Remedial Training. 6078 hours of additional classroom training, behind-the-wheel range observation, and ~~vehicle training area~~/over-the-road training based on each CDL student's specific

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needs.

- 3C) Instructional materials shall be available and shall include a form of video delivery.
- 4D) A professional library containing an assortment of reference and textbooks, pamphlets, and other publications, including but not limited to the CDL Study Guide, available for the use of students and teachers.
- 5E) A brush-up course of instruction may be offered to individuals who currently hold or have held a CDL issued under the requirements of 49 CFR 383, as incorporated in Section 1060.5. The school must maintain records that verify students qualify for a brush-up course. This course may be offered on an hourly basis. No brush-up course may be offered to any individual who has never held a CDL ~~or its equivalent~~.
- 6F) Classroom Instruction – CDL, endorsement and/or restriction classification instruction-

 - Ai) ~~Each classroom course must have a definite starting date and completion date.~~—A listing of students enrolled in each course shall be sent to the Secretary of State, within 3 days after the third day of classroom instruction, on forms provided by the Secretary of State.
 - Bii) Classroom instruction shall include subject matter relating to the rules of the road as contained in the CDL Study Guide, safe driving practices, pedestrian safety, defensive driving techniques, behavioral characteristics of drivers, federal regulations relating to the Department of Transportation and CDL standards (49 CFR 383), vehicle insurance, the use of safety devices, and the effects of alcohol and drugs on driving.
 - iii) ~~Practice driving instruction must comply with the curriculum provided by the Office of the Secretary of State.~~
 - Civ) Audio-visual materials shall be used as a supplement to the teacher's presentation, but not as a replacement. ~~Reference materials are to be available to the students and their use assured~~

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~~by assignments. All assignments are to be made in advance of due dates and shall include outside reading as well as preparation for testing.~~

~~Dv)~~ ~~A regular schedule of classroom testing shall be followed.~~ Student progress is to be periodically evaluated. Criteria for passing or failing the course shall be evident to the student, and successful completion clearly defined.

~~Evi)~~ Each student shall be informed, prior to the time instruction begins, of the amount of any and all fees or charges made for enrollment or registration, tuition, use of equipment, or materials provided by the CDL, endorsement and/or restriction accredited driver training program.

~~vii)~~ ~~Instruction of each student in the class shall begin on the date and location designated by advertisement and continue throughout the designed period, unless the course is cancelled and the student is refunded any fees already paid.~~

~~7G)~~ Laboratory Instruction – For persons taking instruction for CDL, endorsement and/or restriction classification-

~~Ai)~~ Behind-the-wheel instruction shall not begin until the student is enrolled in a classroom program of CDL, endorsement and/or restriction classification driver training and obtains the required knowledge for the safe operation of a vehicle in traffic as provided in 49 CFR 383.110-121.

~~Bii)~~ Each student must have in his/her possession, when engaged in vehicle operation, a valid and properly classified instruction permit or driver's license.

~~Ciii)~~ Practice driving instruction must comply with the curriculum provided by the Office of the Secretary of State, and shall include but not be limited to pre-trip inspection, actual experience in starting, stopping, shifting, turning, backing, docking, parking, steering and emergency situation procedures.

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Diiv) CDL skills testing for classification A must be given in a representative power unit with a multi-range transmission with no fewer than 9 forward gears and a representative trailer at least 48 feet long with a tandem axle.

82) Student Ratio Per Course

A) The total number of students enrolled in each CDL accredited driving school during course in any 30-day-given period shall not exceed 5 students per each currently licensed instructor.

B) The total number of students enrolled in each CDL accredited driving school during course in any given30-day period shall not exceed 6 students for each currently registered CDL vehicle.

de) Classroom Teacher Qualifications

1) Each CDL, endorsement and/or restriction accredited driver training school must have at least one classroom instructor employed by the school who meets the standards of IVC Section 6-411.

2) Required Classroom Teacher Qualifications:

A) A driver training instructor teaching the classroom portion of a CDL, endorsement and/or restriction accredited course must comply with Sections 1060.120 and 1060.130.

B) The instructor must possess good physical and mental health, as determined by a physician. An application/physical examination form, provided by the Secretary of State, shall be completed by the instructor and a physician.

C) A classroom instructor must pass an objective type instructor written examination based upon the IVC Illinois Vehicle Code, this Part and the Commercial Motor Vehicle Safety Act of 1986 (49 USC 2704). The written examination shall consist of 125 questions (90 multiple choice and 35 true/false) and the instructor must correctly answer 106 questions to pass.

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ed) CDL, Endorsement and/or Restriction Behind-the-Wheel Teacher Qualifications

- 1) Each CDL, endorsement and/or restriction accredited driver training school must have at least one behind-the-wheel instructor employed by the school who meets the standards of IVC Section 6-411.
- 2) Required Behind-the-Wheel Teacher Qualifications:
 - A) A driver training instructor teaching the behind-the-wheel portion of a CDL, endorsement and/or restriction accredited course must comply with the provisions of Sections 1060.120 and 1060.130 and be licensed in a classification representative of the vehicle in which he or she intends to teach for at least 3 consecutive years immediately prior to application (a one month lapse in renewal will not negate the 3 consecutive years requirement).
 - B) The instructor must possess good physical and mental health, as determined by a physician. An application/physical examination form, provided by the Secretary of State, shall be completed by the instructor and a physician.
 - C) The instructor shall give instruction only in the classification, endorsement and/or restriction in which he/she is licensed.
 - D) A behind-the-wheel instructor must pass an objective type instructor written examination based upon the ~~IVC Illinois Vehicle Code~~, commercial school rules and regulations, and the Commercial Motor Vehicle Safety Act of 1986 (49 USC 2704), as provided for in subsection (c)(1)(C). In addition, a behind-the-wheel instructor must pass a practical test regarding his/her ability to drive a vehicle of CDL, endorsement and/or restriction classification (92 Ill. Adm. Code 1030.85).

fe) Student Instruction Records

- 1) Records shall be maintained by schools that document daily attendance, lesson time, and periodic evaluation of each student. Also recorded shall be the dates of classroom instruction, behind-the-wheel instruction and observation time. Students are to be identified by their name, address and

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other personal information. A driver license number also must be entered on the student record. The records are to be on file in the office of the management for a period of 3 years.

- 2) The driver school with a CDL, endorsement and/or restriction accreditation must meet all requirements of Section 1060.60.
- 3) The school and each student must maintain separate but identical logs of the student's behind-the-wheel instruction and observation time. The logs must include the dates of instruction, type of instruction, student/instructor signatures and odometer readings of the vehicles used for instruction.
- 4) A Secretary of State form shall be used for submitting names of those students who have satisfactorily fulfilled the CDL accreditation course. The form shall be signed by an authorized official of the school.

| **gf)** The Secretary of State shall suspend, revoke, cancel or deny the license and/or accreditation of any driver training school or driver training instructor if the school or instructor fails to comply with this Part or 49 CFR 383.

| **hg)** The Secretary of State may reduce the amount of scheduled skills testing for CDL Accredited schools that have a student failure rate of 45% or greater in the preceding 2 calendar months.

(Source: Amended at 37 Ill. Reg. 18893, effective November 5, 2013)

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NOTICE OF ADOPTED AMENDMENT

- 1) Heading of the Part: Illinois State Library, Government Documents Section
- 2) Code Citation: 23 Ill. Adm. Code 3020
- 3) Section Number: 3020.210 Adopted Action:
Amend
- 4) Statutory Authority: Implementing Section 21 and authorized by Section 2 of the State Library Act [15 ILCS 320/2 and 21]
- 5) Effective Date of Rulemaking: November 7, 2013
- 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 rulemaking, including any material incorporated by reference, is on file and available at the Illinois State Library, Gwendolyn Brooks Building, 300 South Second Street, Springfield IL 62701-1796.
- 9) Notice of Proposal published in the *Illinois Register*: June 14, 2013; 37 Ill. Reg. 7929
- 10) Has JCAR issued a Statement of Objection to this rulemaking? No
- 11) Difference between Proposal and Final Version: None
- 12) Have all changes agreed upon by the Agency and JCAR been made as indicated in the agreement letter from JCAR? No changes were made.
- 13) Will this rulemaking replace any emergency rulemaking currently in effect? No
- 14) Are there any other rulemakings pending on this Part? No
- 15) A Complete Description of the Subjects and Issues Involved: In Section 3020.210, subsection (c) is being deleted. Depository libraries will be able to discard a tangible state document if it is available in an electronic format made available by the Illinois State Library.
- 16) Information and questions regarding this adopted rulemaking shall be directed to:

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Joseph Natale
Rules Coordinator
Illinois State Library
Gwendolyn Brooks Building
Springfield, IL 62701-1796

217/558-4185
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The full text of the Adopted Amendment begin on the next page:

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NOTICE OF ADOPTED AMENDMENT

TITLE 23: EDUCATION AND CULTURAL RESOURCES
SUBTITLE B: CULTURAL RESOURCES
CHAPTER I: SECRETARY OF STATE

PART 3020

ILLINOIS STATE LIBRARY, GOVERNMENT DOCUMENTS SECTION

SUBPART A: DEPOSIT OF PUBLICATIONS

Section

3020.100	Definitions
3020.110	State Agency Publications
3020.120	State University Publications and Presses
3020.130	Delivery Cost and Responsibility
3020.140	Excess Copies (Repealed)
3020.150	Administrator of State Agency
3020.160	Lists of Published Materials

SUBPART B: DEPOSITORY LIBRARIES

Section

3020.200	Designation of Depositories
3020.210	Retention and Disposal of Publications
3020.220	Citizen Access to Publications
3020.230	Inspection of Depositories (Repealed)
3020.240	Termination of Depository Status

AUTHORITY: Implementing Section 21 and authorized by Section 2 of the State Library Act [15 ILCS 320/2 and 21].

SOURCE: Filed effective December 21, 1967; rules repealed, new rules adopted and codified at 8 Ill. Reg. 319, effective December 27, 1983; amended at 10 Ill. Reg. 4555, effective July 1, 1986; amended at 27 Ill. Reg. 219, effective January 1, 2003; amended at 33 Ill. Reg. 4169, effective February 27, 2009; amended at 34 Ill. Reg. 19115, effective November 22, 2010; amended at 36 Ill. Reg. 3248, effective February 16, 2012; amended at 37 Ill. Reg. 18918, effective November 7, 2013.

SUBPART B: DEPOSITORY LIBRARIES

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Section 3020.210 Retention and Disposal of Publications

- a) The Illinois State Library shall keep all depository materials indefinitely, except for ephemeral materials. The Illinois State Library shall retain one copy of superseded material. The Illinois State Library shall retain ownership of Illinois publications deposited in its depository and exchange libraries.
- b) Each depository must keep all publications for five years except superseded materials. At the end of that time, a depository may send a list of unneeded publications on the Government Documents List to other depository libraries for their selection. If other libraries request any publications on the list, the discarding library will forward the publications to them, by the least expensive method, at the selecting library's expense. Publications not selected by other depositories may be disposed of or destroyed.
- e) ~~A depository may discard a publication that is published in a tangible format and deposited in the electronic depository if it retains the tangible format for the current and previous year.~~
- c)d) A depository is permitted to replace tangible versions with electronic equivalents of publications provided the electronic version is complete and permanently accessible. The Illinois State Library will provide a list on its website of titles that meet these requirements.

(Source: Amended at 37 Ill. Reg. 18918, effective November 7, 2013)

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- 1) Heading of the Part: Illinois State Library Grant Programs
- 2) Code Citation: 23 Ill. Adm. Code 3035
- 3)

<u>Section Numbers:</u>	<u>Adopted Action:</u>
3035.210	Amend
3035.240	Amend
3035.450	Amend
3035.540	Amend
3035.600	Amend
3035.610	Amend
3035.630	Amend
3035.640	Amend
- 4) Statutory Authority: Implementing and authorized by the Illinois Library System Act [75 ILCS 10]
- 5) Effective Date of Rulemaking: November 7, 2013
- 6) Does this rulemaking contain an automatic repeal date? No
- 7) Does this rulemaking contain incorporations by reference? Yes. Standard Form of Agreement Between Owner & Contractor A-101 is being updated from 1997 to 2007 in Sections 3035.450 and 3035.540.
- 8) A copy of the adopted rulemaking, including any material incorporated by reference, is on file and available at the Illinois State Library, Gwendolyn Brooks Building, 300 South Second Street, Springfield IL 62701-1796.
- 9) Notice of Proposal published in the *Illinois Register*: June 14, 2013; 37 Ill. Reg. 7933
- 10) Has JCAR issued a Statement of Objection to this rulemaking? No
- 11) Difference between Proposal and Final Version: None
- 12) Have all changes agreed upon by the Agency and JCAR been made as indicated in the agreement letter from JCAR? Yes
- 13) Will this rulemaking replace any emergency rulemaking currently in effect? No

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- 14) Are there any other proposed rulemakings pending on this Part? No
- 15) A Complete Description of the Subjects and Issues Involved: The primary purpose of this rulemaking to establish a new service model for the Illinois State Library's Talking Book and Braille Service. In 2011, because of the state's cash flow, regional library systems merged, and now there are three systems in the state: the Chicago Public Library System (serving the Harold Washington Library Center and CPL branches); the Reaching Across Illinois Library System (serving all types of libraries in the northern half of the state; and Illinois Heartland Library System (serving downstate libraries of all types). Prior to the merger, there were three Talking Book Centers (TBCs) in the state: Chicago Public Library in Chicago, Mid-Illinois Talking Book Center in East Peoria, and Voices of Vision Talking Book Center in Geneva. Under the new regional library system alignment, the Chicago Public Library Center will continue as a TBC, and Voices of Vision and Mid-Illinois TBCs have been reclassified as one Advisory and Outreach Center (AOC). The name shall be Illinois Talking Book Outreach Center. The Illinois Heritage Library System will maintain a Machine Sub-lending Agency. The circulation programs from Mid-Illinois and Voices of Vision Talking Book Centers have been assumed by the Illinois State Library. The reclassification of TBCs coincides with activities of the National Library Service (NLS). In recent years, with the digital transition of TBBS material and 2008 recession funding reductions, new service patterns and centers have developed nationally. Some closing TBCs are now recognized by NLS as Advisory and Outreach Centers (AOCs), defined below. The primary mission of the centers is outreach to their communities, identifying and registering eligible individuals, and providing them with reader-advisory services. This rulemaking also clarifies the definition of a "Contract" in the Literacy Grant Program (Section 3035.210), and updates the incorporation by reference of the Standard Form of Agreement Between Owner & Contractor A-101 in Subparts D and E.
- 16) Information and questions regarding this adopted rulemaking shall be directed to:

Joseph Natale
Rules Coordinator
Illinois State Library
Gwendolyn Brooks Building
Springfield, IL 62701-1796

217/558-4185
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The full text of the Adopted Amendments begin on the next page:

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TITLE 23: EDUCATION AND CULTURAL RESOURCES
SUBTITLE B: CULTURAL RESOURCES
CHAPTER I: SECRETARY OF STATE

PART 3035
ILLINOIS STATE LIBRARY GRANT PROGRAMS

SUBPART A: STATE GRANTS

- Section
- 3035.10 Definitions
- 3035.100 System Area and Per Capita Grants
- 3035.105 Library System Technology Grants
- 3035.110 Special Library Services to Persons with a Print Disability
- 3035.115 Public Library Per Capita and Equalization Aid Grants
- 3035.120 School District Library Grant Program
- 3035.125 Library Grants for Veterans' Homes
- 3035.130 Educate & Automate Automation/Technology Grants
- 3035.135 Requirements, Denial and Revocation of Approval
- 3035.140 Grants, Expenditures and Audits
- 3035.150 Appeal Procedure

SUBPART B: LITERACY GRANT PROGRAM

- Section
- 3035.200 Purpose
- 3035.210 Definitions
- 3035.220 Application for Grant
- 3035.230 Review of Grant Applications
- 3035.240 Award of Grants, Accountability and Recordkeeping
- 3035.250 Cancellation of Grant
- 3035.260 Fiscal Procedures
- 3035.270 Other Requirements (Repealed)
- 3035.280 Penny Severns' Grant Program (Repealed)

SUBPART C: SCHOLARSHIP PROGRAM GRANTS

- Section
- 3035.300 Purpose

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3035.310	Definitions
3035.320	Number and Amount of Scholarship Program Grants
3035.330	Illinois Library Schools and Attendance Requirements
3035.340	Eligibility Requirements
3035.350	Application Process
3035.360	Selection of Scholarship Program Grantees
3035.370	Conditions of Scholarship Program Grants

SUBPART D: LIVE AND LEARN CONSTRUCTION GRANTS

Section	
3035.400	Purpose
3035.410	Definitions
3035.420	Duty to Administer
3035.430	Priorities in Library Grant Construction Proposals
3035.435	Grant Funding Limitations
3035.440	Additional Grant Funds
3035.450	Grant Application Procedure
3035.460	Requirements and Conditions of Grant Funds
3035.470	Remodeling for Accessibility
3035.480	Shared Use Facilities
3035.490	Disbursement of Grant Funds

SUBPART E: PUBLIC LIBRARY CONSTRUCTION ACT GRANTS

Section	
3035.500	Purpose
3035.510	Definitions
3035.515	Eligibility Requirements
3035.520	Grant Applications
3035.525	Priority of Public Library Construction Act Projects
3035.530	Grant Amounts and Use
3035.535	Grant Awards
3035.540	Supervision of Public Library Construction Act Projects
3035.550	Carry-over Projects
3035.555	Referendum Requirements
3035.560	Public Library Capital Needs Assessment
3035.565	Public Library Site Selection
3035.570	Eligible Project Costs

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- 3035.575 General Standards and Guidelines for the Appropriate Utilization of Bond Proceeds
3035.580 Standardized Definitions and Guidelines
3035.585 Limitations on Expenditures of Bond Proceeds

SUBPART F: TALKING BOOK AND BRAILLE SERVICE (TBBS)

Section

- 3035.600 Purpose
3035.610 Definitions
3035.620 Eligibility
3035.630 Application [for Service](#)
3035.640 [Application for Grant Talking Book Centers](#)
3035.650 Provision of Information Transmission Services
3035.660 Remittance for Information Transmission Services

SUBPART G: LIBRARY SERVICES AND TECHNOLOGY ACT GRANTS (LSTA)

Section

- 3035.700 Purpose
3035.710 Definitions
3035.720 Duty to Administer
3035.730 Grant Application and Awards

3035.EXHIBIT A Differences Among the Three Types of Literacy Grant Programs
3035.EXHIBIT B Guidelines for Rating Life Safety/Legal Issues (Repealed)

AUTHORITY: Implementing and authorized by the Illinois Library System Act [75 ILCS 10], the State Library Act [15 ILCS 320], the Illinois Literacy Act [15 ILCS 322], the federal Library Services and Technology Act (20 USC 9141), the Accessible Electronic Information Act [15 ILCS 323] and 36 CFR 701.10, and Section 3 of the Capital Development Bond Act of 1972 [30 ILCS 420/3].

SOURCE: Adopted at 31 Ill. Reg. 16310, effective November 20, 2007; amended at 32 Ill. Reg. 9666, effective June 23, 2008; amended at 33 Ill. Reg. 4180, effective February 27, 2009; amended at 35 Ill. Reg. 18366, effective October 18, 2011; amended at 36 Ill. Reg. 12385, effective July 18, 2012; amended at 37 Ill. Reg. 4348, effective March 19, 2013; amended at 37 Ill. Reg. 18922, effective November 7, 2013.

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SUBPART B: LITERACY GRANT PROGRAM

Section 3035.210 Definitions

"Adult Literacy Program" means a structured program that provides direct instructional services in reading, writing, comprehension, computation or English language skills to adult students using volunteer tutors.

"Adult Literacy Provider Agency" means an educational agency providing basic skills or English language instruction to adult students.

"Adult Student" means an individual in Illinois who has exceeded the maximum age for compulsory schooling (17), is not currently enrolled in school (see 105 ILCS 5/Art. 26) and qualifies for instructional services through an educational assessment.

"Applicant" means "Submitting Agency" as defined in this Section.

"Application" means the formal request for a literacy grant submitted to the Illinois State Library pursuant to this Subpart.

"Basic Skills Instruction" means instructional services in reading, writing, comprehension and/or computation.

"Businesses" means public or private employers. Businesses functioning as educational agencies may not be a for-profit entity.

"Child Education Agency" means an entity working with children at risk of school failure.

"Coalition" means a structured cooperative effort among libraries, education agencies, and community-based organizations, or any combination of these entities, at the local or regional level.

"Community" means any county or municipality in Illinois.

"Community-based Organization" means a private or public not-for-profit organization, including volunteer organizations, located in an Illinois community, that provides services to citizens within that community and the surrounding area.

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"Computation" means to determine by mathematics.

"Contract" means [the agreement between the Illinois State Library and submitting agency to implement a literacy project](#)~~one or more literacy grant projects awarded to any one applicant.~~

"Educational Agencies" means those entities eligible to apply that are public libraries and are members of an Illinois regional library system; community colleges, school districts and regional offices of education that are certified by the Illinois Board of Higher Education, the Illinois State Board of Education or the Illinois Community College Board; community based organizations, volunteer agencies or a coalition of those entities, and businesses as defined in this Section. If not a governmental entity, the agency must have been granted 501(c)(3) status by the Internal Revenue Service.

"Educational Assessment" means testing methods that measure the educational skills possessed by adults, including reading, writing, comprehension, computation or English language skills.

"English Language Instruction" means instructional services in reading, writing, comprehension, computation and speaking the English language.

"Family Literacy" means a structured program that provides direct instructional services in basic skills or English language, parenting instruction for adults, developmentally appropriate activities for children, structured reciprocal time for both to learn together, and library education.

"Fiscal Year" means the fiscal year of the State of Illinois.

"Instructional Materials" means written materials and computer software programs that are used in teaching adults basic reading, writing, comprehension, computation or English language skills.

"LAB" means the Literacy Advisory Board established by Section 7.2 of the State Library Act [15 ILCS 320/7.2].

"Library" means a tax-supported public library within an Illinois library system.

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"Literacy" means the ability of an individual to read, write, compute, comprehend and speak English above the 9.0 grade level or speak English above student performance level 7 as measured by an educational skills assessment.

"Literacy Program" means a structured project or program that provides direct instructional services in literacy to adult students.

"Math Student" means an adult whose math skills are below the 9.0 grade level and who is enrolled in the literacy program for math instruction.

"Partnering Agency" means those agencies who will receive part of the grant funds or who will actively participate in the literacy project as an essential component of that project, without whose participation the project would fail or be radically changed.

"Secretary of State" means the Illinois Secretary of State, who is the State Librarian.

"Site Visit" means a visit conducted by a literacy grant monitor to a literacy grant recipient to determine whether the project meets or maintains the criteria of the grant program. The site visit may be made in person, by phone or by electronic means, at the discretion of the Illinois State Library Literacy Office.

"State Library" or "ISL" means the Illinois State Library, a department of the Illinois Secretary of State established pursuant to the State Library Act [15 ILCS 320].

"Submitting agency" means the eligible education agency or business authorized to submit a literacy grant application. The submitting agency shall be the legal entity responsible for the disbursement of public funds.

"Testing" means educational assessment.

"Volunteer Tutor" means an unpaid, trained individual over the age of 17 who provides one to one or small group instruction to adult students.

"Workplace Literacy Program" means a structured program that provides direct instructional services in reading, writing, comprehension, computation or English

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language skills to adult employees or prospective employees at their place of employment.

(Source: Amended at 37 Ill. Reg. 18922, effective November 7, 2013)

Section 3035.240 Award of Grants, Accountability and Recordkeeping

- a) The LAB will make a recommendation to the Secretary of State as to which grant applications shall be approved, based upon the criteria in Section 3035.230.
- b) Grant awards will be made upon appropriation of funds. For grants under this Subpart, the State Library shall make a lump sum payment upon the signing of the grant contract with the Secretary of State.
- c) No public funds shall be awarded to any grant applicant that:
 - 1) Does not certify or state that it will comply with the Illinois Human Rights Act [775 ILCS 5].
 - 2) Uses as its staff or management personnel persons who have been convicted of any felonies involving moral turpitude, embezzlement, theft, sexual offense, fraud or misrepresentation under laws of the United States, Illinois or any other state, or have been convicted of bribery in violation of Section 50-5 of the Illinois Procurement Code [30 ILCS 500/50-5].
 - 3) Has employees of the Office of the Secretary of State as its managers.
 - 4) Has been disqualified and had its grant cancelled in previous years for false application statements, failure to adhere to the grant plan as approved by LAB, failure to complete reporting requirements satisfactorily, misappropriation of funds, or any violation of this Part as determined by the Secretary.
- d) ~~No more than one contract shall be awarded under this Subpart to any one applicant in the same fiscal year.~~ Awards shall be made on or after July 1 of every year for the fiscal year then commencing.

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- e) The Secretary of State shall make his or her final decision upon each recommendation as soon as possible or within 60 days after the recommendation is presented to the Secretary.
- f) The final approved grant applications and the funding determination shall constitute the Adult Literacy Grant Program, which shall be a public record, as shall be the grant applications, whether approved or not, and shall be subject to disclosure pursuant to the Freedom of Information Act [5 ILCS 140] and the rules of the Secretary of State found at 2 Ill. Adm. Code 551.
- g) Approved grant applicants shall submit to the State Library, Office of the Secretary of State, such reports as deemed necessary by the Illinois State Library staff to assure project accountability. Reports to be submitted include:
 - 1) Quarterly financial reports showing expenditures made from grant funds by line item.
 - 2) Quarterly narrative reports stating the progress of the project.
 - 3) Semiannual statistical reports including number of students served and results of educational assessments.
- h) A literacy grant monitor shall make a minimum of one site visit during each biennium. Additional site visits shall be made at the discretion of the Illinois State Library Literacy Office (for such reasons as poor recordkeeping, fiscal irregularities, monitor's/staff's request after viewing narrative reports, requests by literacy program). Literacy monitors shall evaluate program effectiveness. It shall be the responsibility of the grant monitor to:
 - 1) Review the grant budget and expenditures in the project to date.
 - 2) Verify that the project plan is being implemented according to the proposal approved by the LAB.
 - 3) Submit a written report on the progress of the project to the Literacy Office following each site visit.
- i) The decision of the Secretary of State upon any grant application shall be a final decision for the purpose of the Administrative Review Law [735 ILCS 5/Art. III].

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(Source: Amended at 37 Ill. Reg. 18922, effective November 7, 2013)

SUBPART D: LIVE AND LEARN CONSTRUCTION GRANTS

Section 3035.450 Grant Application Procedure

The following application procedures shall apply:

- a) The Illinois State Library shall issue application forms for library construction grants under this program.
- b) Applying libraries and library systems shall submit a signed, completed current library construction grant application, together with the following documents or written assurances, to be eligible for library construction grants. The applicant shall provide:
 - 1) Application Phase
 - A) To be eligible for a Live and Learn construction grant, assurances contained in this Section, as listed in the Construction Grant Application Form.
 - B) A statement describing the necessity for the proposed project.
 - C) A statement of plans to meet existing library standards of service, Illinois Library Standard 2.0, Serving Our Public: Standards for Illinois Public Libraries, incorporated by reference in Section 3035.115. This subsection (b)(1)(C) shall not apply to library systems.
 - D) A description of the project's potential contribution to the improvement of library services within the library's area of service and in any other portions of the State.
 - E) A facility plan. For projects with a total cost of over \$150,000, a library building consultant may work with the library in developing the facility plan. The library board shall select a building consultant in accordance with the Illinois Local Library

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Act [75 ILCS 5/4-7] and the Illinois Library District Act [75 ILCS 16/30-55.40].

- F) For projects with a total cost equal to or greater than \$75,000, assurance that an architect or engineer licensed to practice in Illinois is being utilized.
- G) Project design, with a site plan, outline of specifications and an estimated cost per square foot.
- H) A letter from the Illinois Historic Preservation Agency evidencing compliance with the Illinois State Agency Historic Resources Preservation Act [20 ILCS 3420].
- I) For new construction, additions and projects involving evacuation of soil:
 - i) Documentation stating whether the project site is located in a Special Flood Hazard Area found at the Illinois State Water Survey's Illinois Floodplain Map website (<http://www.illinoisfloodmaps.org/>). If the project site is located in a Special Flood Hazard Area, the applicant shall submit an assurance letter from the Division of Water Resources of the Department of Natural Resources stating that the project meets the requirements of Executive Order 2006-5 regarding flood damages.
 - ii) A subsurface soil analysis by a soils engineer.
 - iii) A site assessment by a licensed environmental/hazardous materials consultant to determine the existence of asbestos and/or lead paint. This assurance does not apply to new buildings unless demolition of existing buildings (other than residences) is necessary.
- J) Assurance that the real estate affected by the proposed construction is available to the library or library system, as is the legal description of the affected real estate. A deed of ownership or proof of long-term occupancy (20-year minimum) shall be

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provided, except for mini-grants. The applicant shall provided assurance that the building will remain in use as a public library or library system facility for not less than 20 years after its construction unless other use is approved by the Director of the Illinois State Library.

- K) An Americans With Disabilities Act Self-Evaluation, except for new construction projects.
- L) Other funds designated for construction that are immediately available to the library upon application. Funds may include a mortgage commitment letter from a financial institution licensed by a state or the federal government. Assurances from the applicant that a referendum is pending or various fundraising activities will be undertaken in the future, with the amount to be raised remaining uncertain, shall not be counted as part of the local matching funds for the purposes of Section 3035.400.

2) Construction Phase

- A) An assurance that the grantee library will expend 100% of Secretary of State library construction grant funds within 12 months after the execution of the grant agreement. If the grantee fails to submit a final report, or an audit, if applicable, within 24 months after the execution of the contract, the grant shall be forfeited unless an extension is granted by the Director of the Illinois State Library.
- B) An assurance that the construction work will be performed under the lump sum (fixed price) contract method.
- C) An assurance that the library will publicly announce all requirements for architectural, engineering and land surveying services and procure these services on the basis of demonstrated competence and qualifications and negotiate contracts at fair and reasonable prices, in accordance with the Illinois Local Library Act [75 ILCS 5/5-5] and the Illinois Library District Act [75 ILCS 16/40-45].

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- D) Architectural, engineering and land surveying contracts made in accordance with the Local Government Professional Services Selection Act [50 ILCS 510].
- E) An assurance that adequate methods of obtaining competitive bidding will be employed prior to awarding the construction contract by public advertising in a newspaper of general circulation in the area, and the award of the contract will be made to the responsible bidder submitting the lowest acceptable bid, in accordance with the Illinois Local Library Act and the Illinois Library District Act. A copy of the advertisement, with verification of the date of publication and name of the newspaper, shall be submitted to the Illinois State Library within 10 days after publication.
- F) An assurance that all laborers and mechanics employed by the contractor or subcontractors on all construction projects will be paid wages at rates not less than those prevailing on similar construction in the locality, as determined by the Illinois Department of Labor in accordance with the Prevailing Wage Act [820 ILCS 130].
- G) An assurance that a copy of the building permit will be supplied to the Illinois State Library prior to the actual construction and that the permit will be posted in a prominent place on the construction site.
- H) An assurance that any change in the Plans and Specifications requiring a work change order will be submitted to the Illinois State Library. All change orders shall be subject to the Illinois Public Works Contract Change Order Act [50 ILCS 525]. The Illinois State Library shall be notified of and approve or deny any change orders of \$10,000 or more and the modification of any public areas of the grantee library from the proposed original plans of the approved grant application. The change order will be accompanied by a letter approved by the library board stating that there is no adverse impact on library services. Change orders do not affect the grant award amount.

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- I) An assurance that contractors and subcontractors will comply with all applicable provisions of the Illinois Human Rights Act [775 ILCS 5] and all federal and State laws, rules and regulations that prohibit discrimination because of race, color, religion, sex, marital status, national origin, ancestry, age and physical or mental handicap.
- J) Construction contracts signed by both the library board (or library system board) and contractors that is, or is comparable to, the "~~Standard Form of Agreement Between Owner & Contractor A-101-20071997~~," published by the American Institute of Architecture, 1735 New York Ave., NW, Washington DC 20006-5292. No later amendments to this form are incorporated in this Section. Contracts are to be submitted to the Illinois State Library prior to the start of construction; also, all subcontractors are to perform work in accordance with the conditions and standards contained in the contracts signed by the board and the Illinois State Library. The Illinois State Library shall have the right to disapprove any contracts between the library board or library system board and contractors if:
- i) The bidding procedure outlined in subsection (b)(2)(E) was not followed.
 - ii) The conditions and standards specified in the contract between the Illinois State Library and the library board are not incorporated into the contracts between the library board or library system board and the contractors.
- K) An assurance that a sign will be displayed on the construction site stating that State funds administered by the State Librarian are being used for the construction and that a plaque will be placed in the completed building stating that State funds administered by the State Librarian were used for the building's construction.
- L) An assurance that construction will not begin until a contract is executed with the State Librarian.

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- M) An assurance that construction will commence within 140 days after the effective date of the grant contract, according to Section 3035.435(f).
- N) An assurance that any agent authorized by the Illinois State Library, upon presentation of credentials and in accordance with the constitutional limitation on administrative searches, will have full access to, and the right to examine, any records, books, papers or documents of the grantee involving transactions related to the grant.
- O) An assurance that the following reports and records will be completed and transmitted to the Illinois State Library: quarterly narrative and financial reports; notification within 15 days after completion of the project; a close-out report that is a final financial and narrative report within 24 months after the execution of the contract, unless an extension is granted by the Director of the Illinois State Library; and other reports and documents, such as prevailing wage rates and receipts to verify vouchers, as reasonably may be required by the State Library. The final financial report shall be signed by the president of the library's board of directors.
- i) Financial reports shall show: the amount of authorized State and local funds; interest earned on grant funds; expenditures made from grant funds and from interest earned on grant funds; obligated funds, by amount of line item remaining compared to the original budget.
 - ii) Narrative reports shall state: the progress of the project; accomplishments to date; problems encountered; objectives met and unmet; changes implemented; and the percentage of completion of the project to date.
 - iii) The close-out report shall evaluate the degree to which the grantee achieved the goals and objectives of the project. The close-out report shall include a project audit according to Section 3035.140(e).

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- iv) For a project that requires an architect or engineer, the architect or engineer shall certify to the Illinois State Library when the project reaches the 50% and 100% stage of completion.
- P) An assurance that, when construction is complete, sufficient funds will be available for effective operation and maintenance of the facilities, in accordance with applicable federal, State and local requirements.
- Q) An assurance that the library will establish a separate account for construction grant funds with a federally or Illinois regulated financial institution that is insured by the Federal Deposit Insurance Corporation.
- R) An assurance that any interest earned on the grant funds will be expended, without limitation or exception, exclusively on the subject construction project.
- c) Some of the documentation and written assurances may be waived in the application , upon approval of the Illinois State Library, except that subsections (b)(2)(F) and (b)(2)(I) will not be waived.
- d) Applications will be considered in accordance with Section 3035.420(c).
- e) Grant applications are subject to the conditions stipulated in Section 3035.135.
- f) Grant monies awarded are based on the amount specified in the original budget in the grant application; grant awards will not be increased because of subsequent increases in project costs.

(Source: Amended at 37 Ill. Reg. 18922, effective November 7, 2013)

SUBPART E: PUBLIC LIBRARY CONSTRUCTION ACT GRANTS

Section 3035.540 Supervision of Public Library Construction Act Projects

The State Librarian shall exercise general supervision over public library construction projects financed pursuant to the Act.

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- a) The grantee library will expend in 30% increments. The public library shall submit a letter from an architect and a financial report at the 30, 60 and 90% points of substantial completion. The final 10% will be paid out upon completion of the project and submission of all final reports to the State Librarian.
- b) Construction work will be performed under the lump sum (fixed price) contract method.
- c) The library will publicly announce all requirements for architectural, engineering and land surveying services and procure these services on the basis of demonstrated competence and qualifications and negotiate contracts at fair and reasonable prices, in accordance with the Illinois Local Library Act [75 ILCS 5/5-5] and the Illinois Library District Act [75 ILCS 16/40-45].
- d) Architectural, engineering and land surveying contracts will be made in accordance with the Local Government Professional Services Selection Act [50 ILCS 510].
- e) Adequate methods of obtaining competitive bidding will be employed prior to awarding the construction contract by public advertising in a newspaper of general circulation in the area, and the award of the contract will be made to the responsible bidder submitting the lowest acceptable bid, in accordance with the Illinois Local Library Act and the Illinois Library District Act. A copy of the advertisement, with verification of the date of publication and name of the newspaper, shall be submitted to the Illinois State Library within 10 days after publication.
- f) All laborers and mechanics employed by the contractor or subcontractors on all construction projects shall be paid wages at rates not less than those prevailing on similar construction in the locality, as determined by the Illinois Department of Labor in accordance with the Prevailing Wage Act [820 ILCS 130].
- g) A copy of the building permit shall be supplied to the State Librarian prior to the actual construction, and the permit shall be posted in a prominent place on the construction site.
- h) Any change in the Plans and Specifications requiring a work change order shall be submitted to the State Librarian. All change orders shall be subject to the

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Illinois Public Works Contract Change Order Act [50 ILCS 525]. The State Librarian shall be notified of and approve or deny any change orders of \$10,000 or more and the modification of any public areas of the grantee library from the proposed original plans of the approved grant application. The change order will be accompanied by a letter approved by the library board stating that there is no adverse impact on library services. Change orders do not affect the grant award amount.

- i) Contractors and subcontractors shall comply with all applicable provisions of the Illinois Human Rights Act [775 ILCS 5] and all federal and State laws, rules and regulations that prohibit discrimination because of race, color, religion, sex, marital status, national origin, ancestry, age and physical or mental handicap.
- j) Construction contracts shall be signed by both the library board and contractors, using the Standard Form of Agreement Between Owner & Contractor A-101-[20071997](#), published by the American Institute of Architecture, 1735 New York Ave., NW, Washington DC 20006-5292, or a comparable format. No later amendments to this form are incorporated in this Section. Contracts are to be submitted to the State Librarian prior to the start of construction. All subcontractors are to perform work in accordance with the conditions and standards contained in the contracts signed by the library board and the State Librarian. The State Librarian shall have the right to disapprove any contracts between the library board and contractors if:
 - 1) The bidding procedure outlined in subsection (e) was not followed.
 - 2) The conditions and standards specified in the contract between the State Librarian and the library board are not incorporated into the contracts between the library board and the contractors.
- k) Grant monies awarded are based on the amount specified in the original budget in the grant application; grant awards will not be increased because of subsequent increases in project costs. Decisions shall not affect the time frame imposed unless approved by the Director of the State Library.
- l) A sign will be displayed on the construction site stating that State funds administered by the State Librarian are being used for the construction and that a plaque will be placed in the completed building stating that State funds administered by the State Librarian were used for the building's construction.

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- m) Any agent authorized by the State Librarian, upon presentation of credentials and in accordance with the constitutional limitation on administrative searches, shall have full access to, and the right to examine, any records, books, papers or documents of the grantee involving transactions related to the grant.
- n) Construction will commence within 140 days after the effective date of the grant contract. Construction may not commence until proof of ownership or long-term lease agreement of the affected real estate is received.
- o) The following reports and records will be completed and transmitted to the State Librarian: quarterly narrative and financial reports; notification within 15 days after completion of the project; a close-out report that is a final financial and narrative report within 36 months after the execution of the contract, unless an extension is granted by the State Librarian; and other reports and documents, such as prevailing wage rates and receipts to verify vouchers, as reasonably may be required by the State Librarian. The final financial report shall be signed by the president of the library's board of directors.
 - 1) Financial reports shall show: the amount of authorized State and local funds; interest earned on grant funds; expenditures made from grant funds and from interest earned on grant funds; obligated funds, by amount of line item remaining compared to the original budget.
 - 2) Narrative reports shall state: the progress of the project; accomplishments to date; problems encountered; objectives met and unmet; changes implemented; and the percentage of completion of the project to date.
 - 3) The close-out report shall evaluate the degree to which the grantee achieved the goals and objectives of the project. The close-out report shall include a project audit according to Section 3035.140(e).
 - 4) For a project that requires an architect or engineer, the architect or engineer shall certify to the State Librarian when the project reaches the 30%, 60%, 90% and 100% stage of completion.
- p) When construction is complete, sufficient funds will be available for effective operation and maintenance of the facilities, in accordance with applicable federal, State and local requirements.

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- q) The library shall establish a separate account for construction grant funds with a federally or Illinois regulated financial institution that is insured by the Federal Deposit Insurance Corporation.
- r) Any interest earned on the grant funds will be expended, without limitation or exception, exclusively on the public library construction project.
- s) Some of the documentation and assurances in this Section may be waived or modified by the State Librarian if the applicant adheres to comparable or stricter requirements, except that subsections (f) and (i) will not be waived.

(Source: Amended at 37 Ill. Reg. 18922, effective November 7, 2013)

SUBPART F: TALKING BOOK AND BRAILLE SERVICE (TBBS)

Section 3035.600 Purpose

- a) TBBS provides postage-free mail order public library service to any Illinois resident who is unable to read standard print material due to a permanent or temporary visual or physical disability. NLS supplies the talking book and Braille book collection. Under the direction of the TBBS, TBCs, [AOCs and MSLAs](#) provide this service directly to the residents of the geographic areas they serve by providing customer service by telephone, mail or online.
- b) TBBS is the administrator of the grant funds that support this program. It also provides automation support, collection backup, bibliographic control, continuing education opportunities and organized leadership for the group.

(Source: Amended at 37 Ill. Reg. 18922, effective November 7, 2013)

Section 3035.610 Definitions

"Accessible Electronic Information Service" means news and other timely information (including newspapers) provided to eligible patrons from multi-state service centers or qualified providers as designated by the Director, using high-speed computers, telecommunication and attendant technologies for acquisition of contents and rapid distribution.

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"Advisory and Outreach Center" or "AOC" means a provider of reader-advisory, outreach and/or machine lending activities. AOC also provides walk-in services for patrons who use digital books that the AOC downloads from NLS.

"Competent Authority" means, in cases of blindness, visual disability or physical limitations, physicians licensed to practice medicine in the State of Illinois or comparable licensing authority; doctors of osteopathy; ophthalmologists; optometrists; registered nurses; physical therapists; and professional staff of hospitals, institutions and public and welfare agencies, such as social workers, case workers, counselors, rehabilitation teachers, and school superintendents. In the absence of any of these, certification of eligibility may be made by professional librarians or any person whose competence under specific circumstances is acceptable to the Library of Congress. In the case of reading disability from organic dysfunction, "competent authority" means physicians licensed to practice medicine by the State of Illinois or comparable licensing authority who may consult with colleagues in associated disciplines.

"Director" means the State Librarian.

"Eligible Patron" means a blind person whose visual acuity, as determined by competent authority, is 20/200 or less in the better eye with correcting lenses, or whose widest diameter of visual field subtends an angular distance no greater than 20 degrees. Other eligible print-disabled persons include persons whose visual disability, with correction and regardless of optical measurement, is certified by competent authority as preventing the reading of standard printed material; persons certified by competent authority as unable to read or unable to use standard printed material as a result of physical limitations; and persons certified by competent authority as having a reading disability resulting from organic dysfunction and of sufficient severity to prevent their reading printed material in a normal manner. Senior citizens are eligible for this program.

"Free Matter" means postage free mailing of specified materials for the network of cooperating libraries and for eligible patrons. The cost for Free Matter is provided directly to the United States Postal Service by the Congress of the United States through the USPS budget. Examples of free material are books and magazines on tape, large-print material, Braille books and magazines, descriptive video, old-time radio shows, playback machines and other sound enhancement accessories.

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"Illinois Radio Information Services" or "IRIS" means the network that broadcasts accessible electronic information services on a daily basis on a special radio called a sideband receiver. The receivers are distributed at no cost to eligible patrons. Local newspapers are read and usually include pieces of news that may not generally be heard on the television news broadcasts. A variety of topics are available, including comics, grocery ads and obituaries. IRIS also produces public affairs programs and listener call-in shows.

"Machine Sub-lending Agency" or "MSLA" means an entity that engages in lending federally owned and supplied equipment. An MSLA offers personal attention to readers' equipment needs, such as specially designed record players, cassette players and accessories.

"National Library Service for the Blind and Physically Handicapped" or "NLS" means a part of the Library of Congress. NLS produces books and magazines, in recorded and Braille formats, playback equipment for listening to the books, an international online catalog of available books, and catalogs of available books in accessible formats. These materials are distributed to a network of cooperating libraries throughout the United States that serve eligible patrons on a temporary or permanent basis.

"Qualified Provider" means any entity that can provide high quality and timely information that is accessible through an electronic information service.

"Regional Library for the Blind and Physically Handicapped" or "LBPH" means the Talking Book and Braille Service (TBBS) for blind and physically disabled individuals that is administered by the Illinois State Library as designated by NLS.

"Talking Book Centers" or "TBCs" means facilities in Illinois designated by the Director of the Illinois State Library that are geographically dispersed throughout the State that provide direct library service to eligible patrons delivered primarily through the free matter for the blind and physically handicapped postage subsidy as defined in Section E040 of the Domestic Mail Manual published in The Postal Bulletin (PB 22081, July 23, 2003), which can be ordered from the United States Postal Service, 475 L'Enfant Plaza, SW, Washington DC 20260-5540.

(Source: Amended at 37 Ill. Reg. 18922, effective November 7, 2013)

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Section 3035.630 Application for Service

- a) Applications to receive the service are available at [TBBS, TBCs, AOCs](#)~~Talking Book Centers~~ and public libraries, [online](#) and from health and social services professionals. The forms ask for such information as name, address, date of birth, education, type of disability, items an applicant intends to borrow, and machinery that will be necessary to access that material.
- b) Each applicant must be certified as eligible and meeting requirements by a competent authority.
- c) The application will be available in a format prescribed by the Illinois State Library Talking Book and Braille Service. Applications are available at http://www.cyberdriveillinois.com/departments/library/TBBS/app_eligibility.html

(Source: Amended at 37 Ill. Reg. 18922, effective November 7, 2013)

Section 3035.640 Application for Grant~~Talking Book Centers~~

- a) The geographic boundaries of a TBC, [AOC](#) and [MSLA](#) shall be those boundaries approved by the State Librarian. In setting TBC, [AOC](#) and [MSLA](#) boundaries, the State Librarian shall place primary importance on the statewide implication of resource sharing, the efficient use of public funds, the impact on affected eligible patrons, and the impact on services provided by the affected TBC, [AOC](#) and [MSLA](#).
- b) To qualify for an annual grant as a TBC, [AOC](#) or [MSLA](#), the applicant entity shall be jointly designated by the Illinois State Library and the Library of Congress National Library Service for the Blind and Physically Handicapped to serve as a TBC, [AOC](#) or [MSLA](#). An annual contract with the State Library shall be executed that specifies the objectives and budget for the service. [The applicants shall provide the information stipulated in Section 3035.135\(d\)](#). The application shall ~~also contain:~~ ~~consist of:~~
 - 1) A statement on the proposed use of the grant for which application is being made that shall show how grant funds will be used to expand TBC, [AOC](#) and [MSLA](#) services to eligible patrons. Grant funds may be used for staff, materials, equipment and services.

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- 2) A report on the use of the previous year's grant, if a grant was received, that shall show how the grant was used and an evaluation detailing the impact of the program.
- 3) A certification stating that:
 - A) the grant funds will be kept in a separate account;
 - B) local funding for library service will not diminish as a result of the program;
 - C) the library will submit quarterly financial and programmatic reports to the Illinois State Library on October 30, January 30, April 30 and July 30 of each year covering the use of the funds.
- c) Funds allocated for statewide services under this program are awarded in the form of grants to units of government that are exempt from the Illinois Procurement Code.
- d) The State Library will maintain an updated list of TBCs, [AOCs](#) and [MSLAs](#) on its Web site.

(Source: Amended at 37 Ill. Reg. 18922, effective November 7, 2013)

DEPARTMENT OF INSURANCE

NOTICE OF WITHDRAWAL OF PROPOSED RULES

- 1) Heading of the Part: Workers' Compensation Electronic Claims
- 2) Code Citation: 50 Ill. Adm. Code 2908
- 3)

<u>Section Numbers</u> :	<u>Proposed Action</u> :
2908.10	New
2908.20	New
2908.30	New
2908.40	New
2908.50	New
2908.60	New
2908.70	New
2908.80	New
2908.90	New
- 4) Date Notice of Proposed Rules published in the *Illinois Register*: November 16, 2012; 36 Ill. Reg. 16137
- 5) Reason for the Withdrawal: On September 30, 2013, the International Association of Industrial Accident Boards and Commissions' (IAIABC) Workers' Compensation Electronic Medical Billing Model Rule and IAIABC Workers' Compensation Electronic Billing (Version 2.1)(Model Rule) was approved by the IAIABC Executive Committee.

The new Model Rule prompts substantive changes to the Illinois Department of Insurance's (Department) Proposed Rule as published in the *Illinois Register* for First Notice. The Department will submit a revised version of 50 Ill. Adm. Code 2908 that will follow the Model Rule. The Department will also consider the public comments it received during the initial First Notice period when making any changes to the Proposed Rule.

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 November 5, 2013 through November 12, 2013. The rulemakings are scheduled for review at the Committee's December 17, 2013 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>
12/19/13	<u>Department of Insurance</u> , Premium Increase Justification and Reporting (50 Ill. Adm. Code 2026)	9/13/13 37 Ill. Reg. 14515	12/17/13
12/20/13	<u>Illinois Commerce Commission</u> , Qualifying Infrastructure Plant Surcharge (83 Ill. Adm. Code 556)	8/16/13 37 Ill. Reg. 12950	12/17/13
12/21/13	<u>Department of Insurance</u> , Health Maintenance Organization (50 Ill. Adm. Code 5421)	9/20/13 37 Ill. Reg. 15270	12/17/13
12/21/13	<u>Department of Insurance</u> , Construction and Filing of Accident and Health Insurance Policy Forms (50 Ill. Adm. Code 2001)	9/13/13 37 Ill. Reg. 14404	12/17/13
12/21/13	<u>Illinois Housing Development Authority</u> , Abandoned Residential Property Municipality Relief Program (47 Ill. Adm. Code 381)	8/9/13 37 Ill. Reg. 12670	12/17/13
12/21/13	<u>Illinois Housing Development Authority</u> , State Housing Appeals Board (47 Ill. Adm. Code 396)	9/13/13 37 Ill. Reg. 14392	12/17/13
12/21/13	<u>Pollution Control Board</u> , Permits and General Provisions (35 Ill. Adm. Code 201)	5/10/13 37 Ill. Reg.	12/17/13

JOINT COMMITTEE ON ADMINISTRATIVE RULES
ILLINOIS GENERAL ASSEMBLY

SECOND NOTICES RECEIVED

		6028	
12/21/13	<u>Pollution Control Board</u> , Organic Material Emission Standards and Limitations for the Metro East Area (35 Ill. Adm. Code 219)	5/10/13 37 Ill. Reg. 6083	12/17/13
12/21/13	<u>Pollution Control Board</u> , Organic Material Emission Standards and Limitations for the Chicago Area (35 Ill. Adm. Code 218)	5/10/13 37 Ill. Reg. 6054	12/17/13
12/22/13	<u>Department of Natural Resources</u> , Falconry and the Captive Propagation of Raptors (17 Ill. Adm. Code 1590)	9/13/13 37 Ill. Reg. 14526	12/17/13

ILLINOIS ADMINISTRATIVE CODE
Issue Index - With Effective Dates

Rules acted upon in Volume 37, Issue 47 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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92 - 1060	11/5/2013	18893
23 - 3020	11/7/2013	18918
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