

ILLINOIS POLLUTION CONTROL BOARD

November 7, 2013

IN THE MATTER OF:)
SDWA UPDATE, USEPA AMENDMENTS) R14-8
(January 1, 2013 through June 30, 2013)) (Identical-in-Substance
) Rulemaking - Public Water Supply)

Proposed Rule. Proposal for Public Comment.

OPINION OF THE BOARD (by J. A. Burke):

SUMMARY OF THIS ACTION

The Board today proposes amendments to the Illinois regulations that are “identical in substance” to drinking water regulations adopted by the United States Environmental Protection Agency (USEPA). The amendments involved in this docket incorporate into the Illinois drinking water regulation amendments in response to three USEPA actions that occurred during the first half of calendar year 2013. The Board further uses this opportunity to make a limited number of minor corrections to the existing text of various provisions.

The federal actions involved in this docket include the following: (1) the February 13, 2013 Revised Total Coliform Rule (RTCR); and (2) the May 31, 2013 summary approval of alternative equivalent methods for drinking water monitoring, (3) which USEPA corrected on June 21, 2013.

Sections 7.2 and 17.5 of the Environmental Protection Act (Act) (415 ILCS 5/7.2 and 17.5 (2012)) provide for quick adoption by the Board of regulations that are identical in substance to federal regulations that USEPA adopts to implement Sections 1412(b), 1414(c), 1417(a), and 1445(a) of the federal Safe Drinking Water Act (SDWA) (42 U.S.C. §§ 300g-1(a), 300g-3(c), 300g-6(a), and 300j-4(a) (2011)). The USEPA National Primary Drinking Water Regulations (NPDWRs) implement Sections 1412(b), 1414(c), 1417(a), and 1445(a) of the federal SDWA (42 U.S.C. §§ 300g-1(a), 300g-3(c), 300g-6(a), and 300j-4(a) (2011)). The federal SDWA regulations are found at 40 C.F.R. 141 through 143. Section 17.5 also provides that Title VII of the Act and Section 5 of the Illinois Administrative Procedure Act (APA) (5 ILCS 100/5-35 and 5-40 (2012)) do not apply to the Board’s adoption of identical-in-substance regulations.

This opinion supports an accompanying order adopted today. The Board will cause the proposed amendments to be published in the *Illinois Register* and will hold the docket open to receive public comments for 45 days after the date of publication. The Board will then adopt and file the final rules, taking into account the public comments received. The Board specifically requests comment on one aspect of the rules. The Board requests comments on the way the Board has incorporated the RTCR and USEPA-approved alternative equivalent analytical methods into the Illinois regulations.

TIMETABLE FOR COMPLETION OF THIS RULEMAKING

The Board presently expects that rules will be adopted and filed no later than the statutory due date of February 13, 2014, pursuant to Section 7.2 of the Act (415 ILCS 5/7.2) (2012)). Adoption of this proposal for public comment today may allow completion by February 3, 2014.

Under Section 7.2 of the Act (415 ILCS 5/7.2(b) (2012)), the Board must complete this rulemaking within one year of the date of the earliest set of federal amendments considered in this docket. USEPA adopted the earliest federal amendments that required Board attention on February 13, 2013. Accordingly, the deadline for Board adoption of these amendments would be February 13, 2014. Under this deadline, and based on adoption of this proposal today, the Board presently anticipates the following dates for completion of intermediate activities in this proceeding:

Date of Board vote to propose amendments:	November 7, 2013
Submission for <i>Illinois Register</i> publication:	November 18, 2013
Probable <i>Illinois Register</i> publication date:	November 27, 2013
Probable End of 45-day public comment period:	January 7, 2014
Date of Board vote to adopt amendments:	January 23, 2014
Possible filing and effective date:	February 3, 2014
Possible <i>Illinois Register</i> publication date:	February 14, 2014

This estimated timetable of intermediate activities towards completion of the amendments has a slight amount of extra time added to allow for any minor unforeseen delays in finalizing the amendments. Nevertheless, progress could occur more slowly—up to the statutory deadline of February 13, 2014—due to presently unforeseen events.

USEPA ACTIONS INCLUDED IN THIS DOCKET

USEPA Amendments During the Period January 1, 2013 Through June 30, 2013

The R14-8 docket includes two sets of amendments that USEPA adopted in the period January 1, 2013 through June 30, 2013, as follows:

February 13, 2013 (78 Fed. Reg. 10270)

Description of the USEPA action: USEPA revised the total coliform rule, which USEPA adopted in 1989. See 54 Fed. Reg. 27544 (June 29, 1989). The RTRC replaces the former maximum contaminant level (MCL) for total coliforms, fecal coliforms, and *Escherichia coli* (*E. coli*) 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.

Prospective necessary Board action in response: The Board must ensure that the substantive elements of the RTCR and ancillary provisions are incorporated into the Illinois Primary Drinking Water Standards.

May 31, 2012 (78 Fed. Reg. 32558)

Description of the USEPA action: 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.

Prospective necessary Board action in response: The Board must amend the corresponding segments of 35 Ill. Adm. Code 611 to add the newly approved alternative equivalent methods to appropriate segments of the Illinois drinking water regulations.

June 21, 2012 (78 Fed. Reg. 37463)

Description of the USEPA action: USEPA corrected errors in the May 31, 2013 summary approval of alternative equivalent methods.

Prospective necessary Board action in response: The Board must ensure that the corrections are incorporated into the June 21, 2013 approvals before the approvals are incorporated into the Illinois regulations.

No Later SDWA (Drinking Water) Amendments of Interest

The Board engages in ongoing monitoring of federal actions. When the Board observes an action outside the nominal timeframe of a docket that requires expedited consideration, the Board will expedite consideration of those amendments. Federal actions that could warrant expedited consideration include those that directly affect the amendments involved in this docket, those for which compelling reasons would warrant consideration as soon as possible, and those for which the Board has received a request for expedited consideration.

As of the date of this opinion and accompanying order, the Board has not identified any USEPA actions since June 30, 2013 that affect amendments that occurred during the period January 1, 2013 through June 30, 2013. Should any such action occur before adoption of the present amendments, the Board may include that action in final adoption in the present docket, R14-8.

Other Federal Actions Having a Direct Impact on the

Illinois SDWA (Drinking Water) Regulations

In addition to the amendments to the federal wastewater pretreatment and SDWA regulations, amendments to certain other federal regulations occasionally have an effect on the Illinois drinking water rules. Most notably, 35 Ill. Adm. Code 611.102 includes the

incorporation of a limited number of federal regulations by reference. These are the following federal regulations, including a brief description of each:

<u>Federal Provision Incorporated by Reference</u>	<u>Subject Matter of the Incorporated Federal Provision</u>
40 C.F.R. 3.2	Requirements for submission of required reports in an electronic format.
40 C.F.R. 3.3	Requirements for submission of required reports in an electronic format.
40 C.F.R. 3.10	Requirements for submission of required reports in an electronic format.
40 C.F.R. 3.2000	Requirements for submission of required reports in an electronic format.
40 C.F.R. 136.3(a)	Listing of analytical procedures approved for purposes of the federal Clean Water Act.
40 C.F.R. 136, Appendix B	A method for determination of a method detection limit for purposes of the federal Clean Water Act.
40 CFR 142.20(b)(1)	Describing the information the State must submit to USEPA to document any grant of relief from a federal National Primary Drinking Water Standard.

As of June 30, 2013, USEPA had not amended any of these federal regulations. Nevertheless, the 2013 edition of the *Code of Federal Regulations* is now available. For this reason, as a routine matter, the Board will use this opportunity to update all citations to the *Code of Federal Regulations* to the 2013 edition, removing any *Federal Register* citations that this action makes unnecessary.

PUBLIC COMMENTS

The Board will receive public comments on this proposal for 45 days following its publication in the *Illinois Register*. After that time, the Board will immediately consider adoption of the amendments, making any necessary changes made evident through the public comments. The Board expects to file any adopted rules with the Secretary of State immediately after adoption, likely by February 3, 2014, but no later than February 13, 2013.

DISCUSSION

The first segment of discussion begins with a description of the amendments undertaken in direct response to the federal actions involved in this proceeding. This includes discussion of the Board's responses to the federal actions. This first segment of discussion summarily outlines the types of changes that the Board routinely makes when adapting USEPA text into Illinois rules. As is explained in this first segment of discussion, all changes to the literal text of the underlying federal amendments are itemized in tables towards the end of this document.

The second segment of discussion describes the various non-substantive amendments that are not directly derived from the federal action, but which the Board has included in this update docket as a routine, necessary matter, to ensure compliance with the substance of the federal regulations and the unique requirements of the Illinois regulatory system. The second segment broadly describes the miscellaneous amendments without detail. The discussion, however, includes specific discussion of individual changes where the Board believes that more detail is warranted. As is explained below (beginning on page 25 of this opinion), all of the various amendments not directly derived from the federal action are itemized in a table towards the end of this document.

Discussion of the Federal Actions

The Revised Total Coliforms Rule (RTCR)--Sections 611.101; 611.111; 611.112; 611.232; 611.325; 611.382; 611.528; 611.532; 511.803; 611.883; 611.902; 611.903; 611.904; Appendices A, G, and H; and New Subpart AA

USEPA adopted the RTCR on February 13, 2013 (78 Fed. Reg. 10270). The 1989 Total Coliform Rule (TCR) remains effective until March 31, 2016. The RTCR removes the former MCLs associated with total coliforms, fecal coliforms, and *E. coli* effective April 1, 2016. The RTCR will require, effective that date, that a drinking water supplier must undertake corrective action whenever specified events occur. USEPA states that the RTCR will achieve greater protection of public health in a cost-effective manner. USEPA states that the RTCR will (1) maintain the objectives of the 1989 TCR; (2) reduce potential pathways for contamination of water distribution systems, (3) use optimal indicators (*i.e.*, total coliforms as an indicator of system operation and condition and *E. coli* as an indicator of fecal contamination); (4) use more stringent criteria for reduced monitoring than does the TCR; and (5) require more frequent monitoring and implementation of remedial procedures for systems that are indicated by monitoring as more vulnerable to contamination. 78 Fed. Reg. at 10272-73.

General Description of the RTCR. The Board does not review the substance of a federal rule in the context of an identical-in-substance rulemaking proceeding. Any person interested in the substance of an identical-in-substance rule should refer to the *Federal Register* notice pertaining to the underlying federal requirement.

Nevertheless, the Board does examine the substantive elements of each federal rule to ensure that each element is best incorporated into the Illinois primary drinking water standards. The following discussion segments outline the primary requirements of the RTCR.

Routine Monitoring. Total coliforms are used as an indicator organism under the RTCR. The absence of total coliforms indicates that contamination is unlikely. 78 Fed. Reg. at 10274. The RTCR requires a supplier to develop and implement a written sampling plan, subject to State review and revision. The sampling plan must identify the sampling locations, sampling times, and repeat sampling locations. 40 C.F.R. 141.853(a), as added at 78 Fed. Reg. 1t 10356 (corresponding with 35 Ill. Adm. Code 611.1083(a)). The monitoring required varies based on four basic distinctions among water suppliers. These distinctions depend on the number of people that the supplier serves, the source of the water served, whether the supplier is a

community water supply (CWS) or a non-CWS,¹ and whether the system is filtered or not filtered.

The first basic distinction under the RTCR is between suppliers that serve more than 1,000 people and those that serve 1,000 or fewer people. The second basic distinction, which applies only to suppliers that serve 1,000 or fewer people, is between systems that use only groundwater as a raw water source (GWS suppliers) and systems that use any amount of groundwater under the influence of surface water or surface water as a source of raw water (a Subpart B system supplier).² The third basic distinction under the RTCR is between GWS suppliers that are CWS suppliers and those that are non-CWS suppliers.³ The fourth basic distinction, which applies only to Subpart B system suppliers, is between those that apply filtration and those that do not filter their water. *See* 40 C.F.R. 141.854, 141.855, 141.856, and 141.867, as added at 78 Fed. Reg. at 10358-61 (corresponding with 35 Ill. Adm. Code 611.1084, 611.1085, 611.1086, and 611.1087).

A non-CWS that provides water to 1,000 or fewer people must begin total coliforms monitoring on April 1, 2016 on a calendar quarterly basis. 40 C.F.R. 141.854(b) (2013) (corresponding with 35 Ill. Adm. Code 611.1054(b)). A CWS supplier that is a GWS supplier which serves 1,000 or fewer people or a Subpart B supplier that serves 1,000 or fewer people must begin fecal coliforms monitoring at one sample per month on April 1, 2016. 40 C.F.R. 141.855(b) and 141.856(b) (2013) (corresponding with 35 Ill. Adm. Code 611.1084(b) and 611.1056(b)). The total coliforms monitoring frequency required of any supplier that provides water to more than 1,000 people varies from two to 480 samples per month, depending on the number of people served. 40 C.F.R. 141.857(b) (2013) (corresponding with 35 Ill. Adm. Code 611.1087(b)).

Repeat Monitoring. The initial result of a total coliforms-positive sample is repeat monitoring. The supplier must take three additional samples within 24 hours of receiving a coliform-positive result for each coliform-positive result. 40 C.F.R. 141.858(a)(1) and (a)(2) (2013) (corresponding with 35 Ill. Adm. Code 611.1058(a)(1) and (a)(2)). If any repeat samples

¹ A CWS supplier is defined as a public water system (PWS) supplier that either (1) serves 15 service connections used by year-round residents; or (2) regularly serves at least 25-year-round residents. *See* 40 C.F.R. 141.2 (2013) (corresponding with 35 Ill. Adm. Code 611.101).

² What is defined as a Subpart B system in the Illinois regulations is defined a subpart H system in the federal regulations. *Compare* 40 C.F.R. 141.2 (2103) (definition of “subpart H systems”) with 35 Ill. Adm. Code 611.101 (definition of “subpart B system”); *see also* 40 C.F.R. 141.1 (2013) (definition of “public water system”) (corresponding with 35 Ill. Adm. Code 611.102 (“public water system”)).

³ Further, less significant, distinctions exist among non-CWS suppliers between transient and non-transient suppliers and seasonal and non-seasonal suppliers. *See* 40 C.F.R. 141.854(a)(4) and (i), 141.856(a)(4), and 141.857(a)(4) (2013) (corresponding with 35 Ill. Adm. Code 611.1054(a)(4) and (i), 611.1056(a)(4), and 611.1057(a)(4)).

are total coliform-positive, the supplier must take three repeat samples for each positive sample in a second tier of repeat monitoring. 40 C.F.R. 141.858(a)(3) (2013) (corresponding with 35 Ill. Adm. Code 611.1054(a)(3)). If any repeat sample is coliform-positive, the supplier must further analyze that sample for *E. coli*. If that analysis indicates the presence of *E. coli*, the supplier must immediately notify the State of that result. 40 C.F.R. 141.858(b)(1) (2013) (corresponding with 35 Ill. Adm. Code 611.1054(b)(1)).

Triggers, Violations, and Corrective Action. Under the RTCR, total coliform-positive and *E. coli*-positive results impose additional regulatory obligations. The RTCR delineates “Level 1 treatment technique triggers,” “Level 2 treatment technique triggers,” violations of the MCL for *E. coli*, and treatment technique violations.

Level 1 Triggers, Level 1 Assessment. A Level 1 trigger occurs under the following conditions:

When a supplier collecting 40 or more samples in a month exceeds 5.0 percent total coliform-positive results;

When a supplier collecting fewer than 40 samples in a month has two or more total coliform-positive results; or

When a supplier fails to take all of the repeat samples required as a result of a total coliform-positive result.

A Level 1 trigger imposes the burden of a Level 1 Assessment on the supplier. In a Level 1 Assessment, the supplier must review its sampling, review its system operation and maintenance, and document unusual events that could have affected water quality for the possible presence of sanitary defects and defects in monitoring practices. The supplier must submit the Level 1 Assessment to the State for review within 30 days of the Level 1 trigger, and the supplier must amend its Level 1 Assessment within 30 days if the State requires revision. After the Level 1 Assessment is complete, the State determines whether the supplier has corrected the problem. Alternatively, the State agrees to a schedule for correction of the problem. 40 C.F.R. 141.859(a)(1) and (b)(3) (2013) (corresponding with 35 Ill. Adm. Code 611.1059(a)(1) and (b)(3)).

Level 2 Triggers, Level 2 Assessment. A Level 2 trigger occurs under the following conditions:

When a supplier violates the MCL for *E. coli*;

When a system obtains a second Level 1 trigger within a 12-month period (unless the State has determined that supplier has corrected the problem that caused the Level 1 trigger); or

For a supplier that is on annual monitoring, when the supplier obtains a Level 1 trigger in two consecutive years.

A Level 2 trigger imposes the burden of a Level 2 Assessment. The Level 2 Assessment is conducted by the State or by a party approved by the State. Like a Level 1 Assessment, the Level 2 Assessment investigates for sanitary defects in the supplier's system. Also similarly, the Level 2 Assessment must be completed and submitted to the State within 30 days, and the supplier must complete any State-required revisions within 30 days. At the conclusion of a Level 2 Assessment, the supplier must correct any remaining problems in its operations or system according to a schedule that is acceptable to the State. 40 C.F.R. 141.859(a)(2) and (b)(4) (2013) (corresponding with 35 Ill. Adm. Code 611.1059(a)(2) and (b)(4)).

Violations. Four distinct types of violations are provided under the RTCR: (1) violation of the MCL for *E. coli*; (2) violation of a treatment technique; (3) monitoring violations; or (4) reporting violations.

Violation of the MCL for E. coli. A violation of the MCL for *E. coli* occurs with one of the following events:

When a supplier has an *E. coli*-positive repeat sample following a total coliform-positive routine sample;

When a supplier has a total coliform-positive repeat sample following an *E. coli*-positive routine sample;

When a supplier fails to test for *E. coli* a repeat sample that had a total coliform-positive result after. 40 C.F.R. 141.860(a) (2013) (corresponding with 35 Ill. Adm. Code 611.1060(a)).

Violation of a Treatment Technique. A violation of a treatment technique occurs when a supplier exceeds a Level 1 trigger or Level 2 trigger and fails to timely complete the required Level 1 Assessment or Level 2 Assessment. A failure to complete corrective action within the State-specified schedule is also a violation of a treatment technique. For a seasonal system, a failure to complete a State-specified start-up procedure before serving water to the public is a violation of a treatment technique. 40 C.F.R. 141.860(b) (2013) (corresponding with 35 Ill. Adm. Code 611.1060(b)).

Monitoring Violations. A failure to take all required routine or additional routine samples in a compliance period is a monitoring violation. A failure to analyze a total coliform-positive sample for *E. coli* is a monitoring violation. 40 C.F.R. 141.860(c) (2013) (corresponding with 35 Ill. Adm. Code 611.1060(c)).

Reporting Violations. A failure to timely submit a monitoring report or completed assessment is a reporting violation. A failure to timely notify the State of an *E. coli*-positive sample is a reporting violation. A failure to submit certification of completion of a State – approved start-up procedure by a seasonal system supplier is a reporting violation. 40 C.F.R. 141.860(d) (2013) (corresponding with 35 Ill. Adm. Code 611.1060(d)).

Reporting Requirements. The RTCR contains a limited number of reporting requirements. Remarkable is the rapidity with which a supplier must report some of the events. A supplier must report certain events before the end of the day on which it learns of specific

events: (1) violation of the MCL for *E. coli*; (2) an *E. coli*-positive result on a routine sample; or (3) violation of a treatment technique for coliforms. 40 C.F.R. 141.861(a)(1) and (a)(2) (2013) (corresponding with 35 Ill. Adm. Code 611.1061(a)(1) and (a)(2)). A supplier must report a monitoring violation must report the violation to the State within 10 days after the supplier learns of the violation. 40 C.F.R. 141.861(a)(4) (2013) (corresponding with 35 Ill. Adm. Code 611.1061(a)(4)). Finally, there is the 30-day reporting requirement for Level 1 Assessments and Level 2 Assessments. 40 C.F.R. 141.859(b)(3) and (b)(4) and 141.861(a)(3) (2013) (corresponding with 35 Ill. Adm. Code 611.1059(b)(3) and (b)(4) and 611.1061(a)(3)).

Increased Monitoring. The RTCR provides for routine monitoring by a non-CWS supplier that is a GWS supplier on a quarterly basis. As is explained below, the RTCR allows reduction of monitoring frequency to no less than annually when certain conditions occur. The supplier, however, must increase its monitoring frequency from quarterly to monthly or from quarterly to annually upon occurrence of specified events: (1) the supplier triggers a Level 2 assessment or two Level 1 Assessments in a 12-month period; (2) the supplier violates the MCL for *E. coli*; (3) the supplier violates a treatment technique; (4) the supplier has two RTCR monitoring violations or one RTCR monitoring violation and one Level 1 Assessment in a 12-month period; or (5) the supplier is on annual monitoring, and it has one RTCR monitoring violation. 40 C.F.R. 141.854(i) (2013) (corresponding with 35 Ill. Adm. Code 611.1054(i)). Further, a CWS or non-CWS supplier that is a GWS supplier must take at least three routine samples in the month after the supplier has a total coliform-positive result. 40 C.F.R. 141.854(j) and 141.855(f) (2013) (corresponding with 35 Ill. Adm. Code 611.1054(j) and 611.1085(f)).

There is no provision for increased monitoring by a CWS supplier that is a GWS supplier to a frequency greater than required that by routine monitoring. *See* 40 C.F.R. 141.855 (2013) (corresponding with 35 Ill. Adm. Code 611.1055). There are, however, provisions that require a CWS supplier that is a GWS supplier on reduced monitoring to return to routine monitoring. *See* 40 C.F.R. 141.855(d)(1) and (e) (2013) (corresponding with 35 Ill. Adm. Code 611.1055(d)(1) and (e)).

Reduced Monitoring. The RTCR provides that the State may reduce a supplier's monitoring frequency after the supplier fulfills specific criteria. Specified minimum sampling and monitoring frequencies apply to suppliers. The criteria for reduced monitoring and the applicable minimum sampling and monitoring frequency for a supplier depend on the supplier's raw water source and the number of persons that the supplier serves. The following paragraphs briefly summarize the criteria and minimum frequencies for reduced monitoring:

Non-CWS suppliers that are GWS suppliers which provide water to 1,000 or fewer people:

Criteria for reduced (annual) monitoring: (1) the supplier must have a clean compliance history for at least 12 months; (2) the most recent sanitary survey must indicate no sanitary defects or all defects must have been corrected, the supplier must have a protected water source, and the supplier's system meets approved construction standards; **AND** (3) the State has conducted an annual site visit, or a compliant Level 2 Assessment has occurred, within the preceding 12

months, and the supplier has corrected all identified sanitary defects. 40 C.F.R. 141.854(e) (2013) (corresponding with 35 Ill. Adm. Code 611.1054(e)).

Criteria for returning to quarterly monitoring (for a supplier on increased monitoring): (1) the State has conducted an annual site visit, or a compliant Level 2 Assessment has occurred, within the preceding 12 months, and the supplier has corrected all identified sanitary defects; AND (2) the supplier must have a clean compliance history for at least 12 months. 40 C.F.R. 141.854(g) (2013) (corresponding with 35 Ill. Adm. Code 611.1054(g)).

Criteria for reduced (annual) monitoring (for a supplier on increased monitoring): (1) the State has conducted an annual site visit, or a compliant Level 2 Assessment has occurred, within the preceding 12 months, and the supplier has corrected all identified sanitary defects; AND the supplier must (2a) have cross-connection control; (2b) have a certified operator or circuit-rider operator; (2c) practice continuous disinfection and maintain a disinfectant residual in its distribution system; (2d) demonstrate a 4-log reduction or inactivation of viruses; OR (2e) engage in State- approved “equivalent enhancements to water system barriers.”⁴ 40 C.F.R. 141.854(h) (2013) (corresponding with 35 Ill. Adm. Code 611.1054(h)).

Minimum required monitoring: no less frequently than annual. 40 C.F.R. 141.854(e) (2013) (corresponding with 35 Ill. Adm. Code 611.1054(e)).

CWS suppliers that are GWS suppliers which serve 1,000 or fewer people:

Criteria for reduced monitoring: (1) the State has conducted an annual site visit, or a compliant Level 2 Assessment has occurred, within the preceding 12 months, and the supplier has corrected all identified sanitary defects; (2) the supplier has State-approved cross-connection control; (3) the supplier must practice continuous disinfection and maintain a disinfectant residual in its distribution system; the supplier must demonstrate a 4-log removal or inactivation of viruses under the Groundwater Rule (*see* subpart S of 40 C.F.R. 141 (2013) (corresponding with Subpart S of 35 Ill. Adm. Code 611)); OR the supplier must engage in State- approved “equivalent enhancements to water system barriers.”⁵

Minimum required monitoring: no less frequently than quarterly. 40 C.F.R. 141.855(d) (2013) (corresponding with 35 Ill. Adm. Code 611.1085(d)).

⁴ USEPA lists cross-connection control, operation by a certified operator, continued disinfection and maintenance of a disinfectant residual, maintaining a 4-log reduction or inactivation of viruses, and the annual site visit by the State or a Level 2 Assessment with correction of all defects found as examples of enhancements to water system barriers. 78 Fed. Reg. at 10281, 10282, 10284-85, 10301.

⁵ *See supra* note 4.

CWS suppliers that are GWS suppliers which provide water to more than 1,000 people:

Criteria for reduced monitoring: none.

Minimum required monitoring: reduced monitoring is not allowed. 40 C.F.R. 141.857(d) (2013) (corresponding with 35 Ill. Adm. Code 611.1057(d)).

CWS suppliers that are GWS suppliers which provide water to more than 1,000 people during any period when the supplier serves 1,000 or fewer people:

Criteria for reduced monitoring: the same criteria as those applicable to CWS suppliers that are GWS suppliers which serve 1,000 or fewer people.

Minimum required monitoring: no less frequently than quarterly. 40 C.F.R. 141.857(d) (2013) (corresponding with 35 Ill. Adm. Code 611.1057(d)); *see* 40 C.F.R. 141.854(e) and 141.855(d) (2013) (corresponding with 35 Ill. Adm. Code 611.1084(e) and 611.1085(d)).

CWS and non-CWS suppliers that are Subpart B suppliers (of any size):

Criteria for reduced monitoring: none.

Minimum required monitoring: reduced monitoring is not allowed. 40 C.F.R. 141.856(b) and 141.857(d) (2013) (corresponding with 35 Ill. Adm. Code 611.1086(b) and 611.1057(d)).

Seasonal System Suppliers. Different requirements apply to seasonal system suppliers. Since these suppliers are more the exception than the rule, the Board only notes the following unique provisions applicable to monitoring by seasonal system suppliers:

- A seasonal system supplier is required to monitor only during times when the supplier is providing water to the public. *See* 40 C.F.R. 141.854(i)(2) (2013) (non-CWS suppliers that are GWS suppliers which serve 1,000 persons or fewer) (corresponding with 35 Ill. Adm. Code 611.1054(i)(2)).
- A seasonal system supplier must demonstrate completion of a State-approved startup procedure prior to seasonal serving water to the public. 40 C.F.R. 141.854(i)(1), 141.56(a)(4)(i), and 141.57(a)(4)(i) (2013) (non-CWS suppliers that are GWS suppliers which serve 1,000 persons or fewer) (corresponding with 35 Ill. Adm. Code 611.1054(i)(1), 611.1056(a)(4)(A), and 611.1057(a)(4)(A)).
- The State may exempt a seasonal system supplier from the requirements for seasonal systems if the supplier maintains its entire distribution system pressurized during the entire time the supplier is not operating its system. 40 C.F.R. 141.854(i)(3), 141.56(a)(4)(ii), and 141.57(a)(4)(ii) (2013) (non-CWS suppliers that are GWS suppliers which serve 1,000 persons or fewer) (corresponding with 35 Ill. Adm. Code 611.1054(i)(3), 611.1056(a)(4)(B), and 611.1057(a)(4)(B)).

Incorporation of the RTCR into the Illinois Regulations. The Board has incorporated the elements of the RTCR into the Illinois Primary Drinking Water Standards with minimal deviation from the federal text. The deviations are all intended to ensure a “smooth fit” of the federal requirements into the Illinois rules. The Board does not intend substantive deviation from the federal requirements.

Tables that begin on page 28 of this opinion itemize the various deviations that the Board has made from the literal text of the underlying USEPA rules. Table 1 indicates the USEPA amendments that the Board has omitted as unnecessary, and Table 2 itemizes the deviations that the Board has made from the USEPA language in adapting that text for the Illinois rules. There will be no further discussion of most of the omissions and deviations. The discussions that follow highlight some of the more salient deviations from the literal text of the federal rules.

Use of Groundwater Under the Influence. The federal rules recite the total coliforms monitoring frequency for suppliers that use surface water or groundwater under the influence of surface water as a source for all or part of their raw water. The language used by USEPA states as follows:

The State may allow a public water system which uses both a surface water source or a ground water source under direct influence of surface water, and a ground water source, to take disinfectant residual samples at points other than the total coliform sampling points if the State determines that such points are more representative of treated (disinfected) water quality within the distribution system. 40 C.F.R. 141.74(b)(6)(i) (2013) (emphasis added).

The Board reads this to include two types of suppliers: (1) a supplier that uses both surface water and groundwater; and (2) a supplier that uses both groundwater under the influence of surface water and groundwater. For this reason, the Board has removed the commas from this segment of text to enhance the clarity. The corresponding Illinois provision now states as follows:

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. 35 Ill. Adm. Code 611.533(c)(1).

“Supervisor of the Official Who Recommended the Decision.” USEPA allows the State to disallow a coliform-positive result under circumstances where the sample does not reflect the quality of the water in a supplier’s distribution system. The federal provision is worded in significant part as follows:

To invalidate a total coliform-positive sample under this paragraph, the decision and supporting rationale must be documented in writing, and approved and signed by the supervisor of the State official who recommended the decision. 141.853(c)(1)(iii) (2013).

While USEPA may have worded this provision to make the process for disallowing

samples more informal, the Board has not followed the federal language. The Board sees no reason to change the mode that the Agency may use for any exceptions to the general rule for disallowing samples. For this reason, the corresponding Illinois provision to use the standard SEP procedure as follows:

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. 35 Ill. Adm. Code 611.1053(c)(1)(C).

The special exception permit (SEP) is the mechanism developed by the Board to provide a framework for the Agency to make case-by-case determinations provided by the federal NPDWRs. *Compare, e.g.,* 35 Ill. Adm. Code 611.1053(a)(5) with 40 C.F.R. 141.853(a)(5) (2013) (authorizing use of alternative sampling locations); *see* Safe Drinking Water Act Regulations, R88-26 (Aug. 9, 1990), slip op. at 7-8, 14, 49-50, 59-60, 72-73. A SEP must be in writing, and it is a permit issued pursuant to Section 39(a) of the Act (415 ILCS 5/39(a) (2012)). 35 Ill. Adm. Code 611.110(a). A SEP is appealable to the Board pursuant to Section 40 of the Act (415 ILCS 5/40 (2012)). 35 Ill. Adm. Code 611.110(c).

Approved Construction Standards. To qualify for reduced monitoring, USEPA requires as follows:

The most recent sanitary survey shows that the system is free of sanitary defects or has corrected all identified sanitary defects, has a protected water source, and meets approved construction standards[.] 40 C.F.R. 141.854(e)(2) (2013); *see* 40 C.F.R. 141.855(d)(1)(ii) (2013) (substantially similar provision).

The phrase “approved construction standards” is problematic because it does not define the standards or the entity that has approved them. The *Federal Register* discussion of this provision does not elaborate on these points. *See* 78 Fed. Reg. at 10280, 10283. Illinois law imposes limitations on imposing a standard: (1) the standard must be codified (5 ILCS 100/5-10(c) (2012) (*see* 5 ILCS 100/1-70 (2012) (definition of “rule”)); or (2) the standard must be incorporated by reference that is not set forth by regulation. 5 ILCS 100/5-75 (2012). Illinois law imposes further limitations on any standard incorporated by reference: (1) the standard must have issued from an agency of the United States or a state or nationally recognized organization; (2) the Board must maintain a copy available for public inspection and copying; and (3) the incorporation cannot include later amendments or editions of the standard. 5 ILCS 5-75(a) and (c) (2012).

The Board currently sees two alternatives for incorporating this provision into the Illinois regulations. The Board has chosen the following alternative: the Board changed “approved construction standards” to “Agency-approved construction standards.” *See* 35 Ill. Adm. Code 611.1054(e)(3) and 611.1055(d)(1)(ii). Since the Agency must approve the design and construction of public water systems (415 ILCS 5/15 and 16 (2012)), this preserves the USEPA language while not limiting the range of standards that the Agency may allow. Under the second alternative, the Board could change “and meets approved construction standards” to “and the Agency has determined that the system is constructed to avoid sanitary defects.” A variation of

this second alternative would expand “constructed” to “designed, constructed, and operated.” This second alternative, however, deviates more from the federal language, and it may be more stringent than the federal language.

Standard Methods Online. The RTCR, like all other NPDWRs that have a monitoring element, prescribes and incorporates by reference analytical methods. This has included adding references to methods in *Standard Methods for the Examination of Water and Wastewater* (20th ed. 1998 and 21st ed. 2005) and methods available from Standard Methods Online. See 40 C.F.R. 141.852(a)(5) table (2013) (corresponding with 35 Ill. Adm. Code 611.1052(a)(5)). Standard Methods Online, Methods 9221 B and D-99 are the same as Standard Methods, Methods 9221 B and D in the 21st edition of *Standard Methods*. Standard Methods Online, Methods 9222 B and C-97 and 9223 B-97 are the same as Standard Methods, Methods 9222 B and C and 9223 B-97 in the 20th edition of *Standard Methods*.

As will be explained more fully relative to USEPA approval of alternative equivalent methods, the Board does not incorporate by reference to a method available from Standard Methods Online where that method also appears in a bound volume of *Standard Methods*. Use of the method as available from Standard Methods Online is acceptable without the separate incorporation by reference because that method is the same as the method incorporated by reference to the bound volume of *Standard Methods*.

Laboratory Certification. The RTCR includes a provision that requires use of a certified laboratory for analyses used to demonstrate compliance. That provision reads in significant part as follows:

Systems must have all compliance samples required under this subpart analyzed by a laboratory certified by the EPA or a primacy State to analyze drinking water samples. 40 C.F.R. 141.852(c) (2013) (emphasis added).

The Board modified this language to include laboratories certified by sister states. The corresponding Illinois provision reads as follows:

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. 35 Ill. Adm. Code 611.1052(c) (emphasis added).

During development of this proposal for public comment, and after the above language was selected in a draft form, the Agency filed a petition for rulemaking on September 19, 2013, which the Board has captioned and docketed as follows: Amendments to Primary Drinking Water Standards: 35 Ill. Adm. Code 611.490, R14-9. The Agency seeks to amend a general provision relating to laboratory certification to allow the use of a laboratory certified by a sister state. The Board scheduled public hearings in the R14-9 proceeding for November 5, 2013 and November 13, 2013.

The record assembled in the R14-9 proceeding could affect the text used to require use of a certified laboratory in this proceeding.

Request for Comments on the RTCR. The Board requests comments on the incorporation of the federal RTCR into the Illinois Primary Drinking Water Regulations in general. The Board further requests comments on specific aspects of the RTCR:

1. Are there any Subpart B systems (systems that use surface water or groundwater under the influence of surface water) in Illinois that do not practice filtration? If not, should the Board retain the provisions for those systems in 35 Ill. Adm. Code 611.1056(c) and 611.1057(c)?
2. Are there any seasonal system suppliers in Illinois, as such are defined under the RTCR? If not, should the Board retain the provisions for those systems in 35 Ill. Adm. Code 611.1054(b), (c), (d), and (i); 611.1056(a)(4); and 611.1057(a)(4)?
3. Is the Board's revision of "both a surface water source or a ground water source under direct influence of surface water, and a ground water source," in 40 C.F.R. 141.74(b)(6)(i) (2013), to "both a surface water source or a groundwater source under direct influence of surface water and a groundwater source," in 35 Ill. Adm. Code 611.533(c)(1), a correct clarification of USEPA's intent?
4. Is the Board's substitution of "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," in 35 Ill. Adm. Code 611.1053(c)(1)(C), for USEPA's language, "decision and supporting rationale must be documented in writing, and approved and signed by the supervisor of the State official who recommended the decision," in 40 C.F.R. 141.853(c)(1)(iii) (2013), a correct clarification of USEPA's intent?
5. Does the Board's changing "approved construction standards," in 40 C.F.R. 141.854(e)(3) and 141.855(d)(1)(ii) (2013), to "Agency-approved construction standards," in 35 Ill. Adm. Code 611.1054(e)(3) and 611.1055(d)(1)(ii), overcome the lack of identity of the standards and effectuate what USEPA's intended?
6. Does the omission of references to methods from Standard Methods Online where the same version of that method also appears in a bound volume of *Standard Methods for the Examination of Water and Wastewater* create a problem in allowing use of that version of the method from either source?
7. Does the language in 35 Ill. Adm. Code 611.1052(c) intended to allow the use of a laboratory certified by a sister state that USEPA has granted primacy successfully allow that to occur? Is the chosen language inconsistent with 415 ILCS 5/4(o), which authorizes the agency to certify laboratories?
8. How may the R14-9 proceeding based on an Agency proposal to allow use of laboratories certified by sister states affect the language in 35 Ill. Adm. Code 611.1052(c) that the Board has revised to allow the use of a laboratory certified by a sister state that USEPA has granted primacy?

Approvals of Alternative Equivalent Analytical Methods--Sections 611.102; 611.526; 611.531; 611.611; 611.612; 611.645; 611.720; 511.802; and 611.1052

USEPA approved 84 alternative equivalent methods on May 31, 2013 (78 Fed. Reg. 32559). USEPA corrected the listing of approved methods on June 21, 2013 (78 Fed. Reg. 37463). The USEPA approval designated new methods as acceptable for use in demonstrating compliance with the NPDWRs. The methods were developed by USEPA and voluntary consensus standards organizations. USEPA used the expedited procedure of section 1401(1) of SDWA (42 U.S.C. § 300f(1) (2012)) for approval of the alternative equivalent methods. The newly approved methods are described as follows:

Alternative Equivalent Method Designation/Title	Contaminant	Regulation Federal/State
Standard Methods, 22nd ed., Method 2120 B Color, Visual Comparison Method	color	143.4(b)/ None
Standard Methods, 22nd ed., Method 2130 B Turbidity, Nephelometric Method	turbidity	141.74(a)(1)/ 611.531(a)(2)(D)
Standard Methods, 22nd ed., Method 2150 B Odor, Threshold Odor Test	odor	143.4(b)/ None
Standard Methods, 22nd ed., Method 2320 B Alkalinity, Titration Method	alkalinity	141.23(k)(1)/ 611.611(a)
Standard Methods, 22nd ed., Method 2510 B Conductivity, Laboratory Method	conductivity	141.23(k)(1)/ 611.611(a)
Standard Methods, 22nd ed., Method 2540 B Solids, Total Solids Dried at 103-105°C	total dissolved solids	143.4(b)/ None
Standard Methods, 22nd ed., Method 2550 Temperature	temperature	141.23(k)(1)/ 611.611(a)
Standard Methods, 22nd ed., Method 3111 B Metals by Flame Atomic Absorption Spectrometry, Direct Air-Acetylene Flame Method	calcium copper magnesium nickel sodium iron manganese silver zinc	141.23(k)(1)/ 611.611(a) (except iron, manganese, silver, and zinc 143.4(b)/ 611.612(f) (iron, manganese, and zinc only)
Standard Methods, 22nd ed., Method 3111 D Metals by Flame Atomic Absorption Spectrometry, Direct Nitrous Oxide-Acetylene Flame Method	aluminum barium	141.23(k)(1)/ 611.611(a) (barium) 143.4(b)/ None (aluminum)

Standard Methods, 22nd ed., Method 3112 B Metals by Cold Vapor Atomic Absorption Spectrometry, Cold-Vapor Atomic Absorption Spectrometric Method	mercury	141.23(k)(1)/ 611.611(a)
Standard Methods, 22nd ed., Method 3113 B Metals by Electrothermal Atomic Absorption Spectrometry, Electrothermal Atomic Absorption Spectrometric Method	aluminum antimony arsenic barium beryllium cadmium chromium copper iron lead manganese nickel selenium silver	141.23(k)(1)/ 611.611 (excluding aluminum, iron, manganese, and silver) 143.4(b)/ 611.612(f) (iron and manganese only)
Standard Methods, 22nd ed., Method 3114 B Arsenic and Selenium by Hydride Generation/Atomic Absorption Spectrometry, Manual Hydride Generation/Atomic Absorption Spectrometric Method	arsenic selenium	141.23(k)(1)/ 611.611(a)
Standard Methods, 22nd ed., Method 3120 B Metals by Plasma Emission Spectroscopy, Inductively Coupled Plasma (ICP) Method	aluminum barium beryllium calcium chromium copper iron magnesium manganese nickel silica silver zinc	141.23(k)(1)/ 611.611(a) (excluding aluminum, iron, manganese, silver, and zinc) 143.4(b)/ 611.612(f) (iron, manganese, and zinc only)
Standard Methods, 22nd ed., Method 3500-Ca B Calcium, EDTA Titrimetric Method	calcium	141.23(k)(1)/ 611.611(a)
Standard Methods, 22nd ed., Method 3500-Mg B Magnesium, Calculation Method	magnesium	141.23(k)(1)/ 611.611(a)

Standard Methods, 22nd ed., Method 4110 B Determination of Anions by Ion Chromatography, Ion Chromatography with Chemical Suppression of Eluent Conductivity	fluoride nitrate nitrite orthophosphate chloride sulfate	141.23(k)(1)/ 611.611(a) 143.4(b)/ 611.612(f) (fluoride only)
Standard Methods, 22nd ed., Method 4500-Cl D Chlorine (Residual), Amperometric Titration Method	free chlorine total chlorine combined chlorine	141.74(a)(2)/ 611.531(b) 141.131(c)(1)/ 611.831(c)(1)
Standard Methods, 22nd ed., Methods 4500-Cl E Chlorine (Residual), Low-Level Amperometric Titration Method	total chlorine	141.74(a)(2)/ 611.531(b) 141.131(c)(1)/ 611.381(c)(1)
Standard Methods, 22nd ed., Method 4500-Cl F Chlorine (Residual), DPD Ferrous Titrimetric Method	free chlorine total chlorine combined chlorine	141.74(a)(2)/ 611.531(b) 141.131(c)(1)/ 611.381(c)(1)
Standard Methods, 22nd ed., Method 4500-Cl G Chlorine (Residual), DPD Colorimetric Method	free chlorine total chlorine combined chlorine	141.74(a)(2)/ 611.531(b) 141.131(c)(1)/ 611.381(c)(1)
Standard Methods, 22nd ed., Method 4500-Cl H Chlorine (Residual), Stryngaldazine (FACTS) Method	free chlorine	141.74(a)(2)/ 611.531(b) 141.131(c)(1)/ 611.381(c)(1)
Standard Methods, 22nd ed., Methods 4500-Cl I Chlorine (Residual), Iodometric Electrode Technique	total chlorine	141.74(a)(2)/ 611.531(b) 141.131(c)(1)/ 611.381(c)(1)
Standard Methods, 22nd ed., Methods 4500-Cl ⁻ B Chloride, Argentometric Method	chloride	143.4(b)/ None
Standard Methods, 22nd ed., Methods 4500-Cl ⁻ D Chloride, Potentiometric Method	chloride	143.4(b)/ None
Standard Methods, 22nd ed., Methods 4500-ClO ₂ C Chlorine Dioxide, Amperometric Method I	chlorine dioxide	141.74(a)(2)/ 611.531(b)
Standard Methods, 22nd ed., Methods 4500-ClO ₂ E Chlorine Dioxide, Amperometric Method II	chlorine dioxide chlorite	141.74(a)(2)/ 611.531(b) 141.131(b)(1) and (c)(1)/ 611.381(b)(1) and (c)(1)

Standard Methods, 22nd ed., Methods 4500-CN ⁻ E Cyanide, Colorimetric Method	cyanide	141.23(k)(1)/ 611.611(a)
Standard Methods, 22nd ed., Methods 4500-CN ⁻ F Cyanide, Cyanide-Selective Electrode Method	cyanide	141.23(k)(1)/ 611.611(a)
Standard Methods, 22nd ed., Methods 4500-CN ⁻ G Cyanide, Cyanides Amenable to Chlorination after Distillation	cyanide	141.23(k)(1)/ 611.611(a)
Standard Methods, 22nd ed., Methods 4500-F ⁻ B Fluoride, Preliminary Distillation Step	fluoride	141.23(k)(1)/ 611.611(a)
Standard Methods, 22nd ed., Methods 4500-F ⁻ C Fluoride, Ion-Selective Electrode Method	fluoride	141.23(k)(1)/ 611.611(a)
Standard Methods, 22nd ed., Methods 4500-F ⁻ D Fluoride, SPADNS Method	fluoride	141.23(k)(1)/ 611.611(a)
Standard Methods, 22nd ed., Methods 4500-F ⁻ E Fluoride, Complexone Method	fluoride	141.23(k)(1)/ 611.611(a)
Standard Methods, 22nd ed., Methods 4500-H ⁺ B pH Value, Electrometric Method	pH	141.23(k)(1)/ 611.611(a)
Standard Methods, 22nd ed., Methods 4500-NO ₃ ⁻ D Nitrogen (Nitrate), Nitrate Electrode Method	nitrate	141.23(k)(1)/ 611.611(a)
Standard Methods, 22nd ed., Methods 4500-NO ₃ ⁻ E Nitrogen (Nitrate), Cadmium Reduction Method	nitrate	141.23(k)(1)/ 611.611(a)
Standard Methods, 22nd ed., Methods 4500-NO ₃ ⁻ F Nitrogen (Nitrate), Automated Cadmium Reduction Method	nitrate	141.23(k)(1)/ 611.611(a)
Standard Methods, 22nd ed., Methods 4500-NO ₂ ⁻ B Nitrogen (Nitrite), Colorimetric Method	nitrite	141.23(k)(1)/ 611.611(a)
Standard Methods, 22nd ed., Methods 4500-O ₃ B Ozone (Residual), Indigo Colorimetric Method	ozone	141.74(a)(2)/ 611.531(b)
Standard Methods, 22nd ed., Methods 4500-P E Phosphorus, Ascorbic Acid Method	orthophosphate	141.23(k)(1)/ 611.611(a)
Standard Methods, 22nd ed., Methods 4500-P F Phosphorus, Automated Ascorbic Acid Reduction Method	orthophosphate	141.23(k)(1)/ 611.611(a)
Standard Methods, 22nd ed., Methods 4500-SiO ₂ C Silica, Molybdosilicate Method, Heteropoly Blue Method, and Automated Method for Molybdate- Reactive Silica	silica	141.23(k)(1)/ 611.611(a)
Standard Methods, 22nd ed., Methods 4500-SiO ₂ D Silica, Heteropoly Blue Method	silica	141.23(k)(1)/ 611.611(a)

Standard Methods, 22nd ed., Methods 4500-SiO ₂ E Silica, Automated Method for Molybdate-Reactive Silica	silica	141.23(k)(1)/ 611.611(a)
Standard Methods, 22nd ed., Methods 4500-SO ₄ ⁻² C Sulfate, Gravimetric Method with Ignition or Residue	sulfate	143.4(b)/ None
Standard Methods, 22nd ed., Methods 4500-SO ₄ ⁻² D Sulfate, Gravimetric Method with Drying of Residue	sulfate	143.4(b)/ None
Standard Methods, 22nd ed., Methods 4500-SO ₄ ⁻² E Sulfate, Turbidimetric Method	sulfate	143.4(b)/ None
Standard Methods, 22nd ed., Methods 4500-SO ₄ ⁻² F Sulfate, Automated Methylthymol Blue Method	sulfate	143.4(b)/ None
Standard Methods, 22nd ed., Methods 5310 B Total Organic Carbon (TOC), High-Temperature Combustion Method	dissolved organic carbon total organic carbon	141.131(d)/ 611.381(d)
Standard Methods, 22nd ed., Methods 5310 C Total Organic Carbon (TOC), Persulfate-Ultraviolet or Heated-Persulfate Oxidation Method	dissolved organic carbon total organic carbon	141.131(d)/ 611.381(d)
Standard Methods, 22nd ed., Methods 5310 D Total Organic Carbon (TOC), Wet-Oxidation Method	dissolved organic carbon total organic carbon	141.131(d)/ 611.381(d)
Standard Methods, 22nd ed., Methods 5540 C Surfactants, Anionic Surfactants as MBAS	foaming agents	143.4(b)/ None
Standard Methods, 22nd ed., Methods 5910 B UV-Absorbing Organic Constituents, Ultraviolet Absorption Method	UV absorption at 254 nm	141.131(d)/ 611.381(d)
Standard Methods, 22nd ed., Methods 6251 B Disinfection By-Products: Haloacetic Acids and Trichlorophenol, Micro Liquid-Liquid Extraction Gas Chromatographic Method	HAA5	141.131(b)(1)/ 611.381(b)(1)
Standard Methods, 22nd ed., Methods 6610 B Carbamate Pesticides, High-Performance Liquid Chromatographic Method	carbofuran oxamyl	141.24(e)(1)/ 611.646(b)

Standard Methods, 22nd ed., Methods 6640 B Acidic Herbicide Compounds, Micro Liquid-Liquid Extraction Gas Chromatographic Method	2,4-D 2,4,5-TP dalapon dinoseb pentachlorophenol picloram	141.24(e)(1)/ 611.646(b)
Standard Methods, 22nd ed., Methods 6651 B Glyphosate Herbicide, Liquid Chromatographic Post-Column Fluorescence Method	glyphosate	141.24(e)(1)/ 611.646(b)
Standard Methods, 22nd ed., Methods 7110 B Gross Alpha and Gross Beta Radioactivity (Total, Suspended, and Dissolved), Evaporation Method for Gross Alpha-Beta	gross alpha radioactivity gross beta radioactivity	141.25(a)/ 611.720(a)
Standard Methods, 22nd ed., Methods 7110 C Gross Alpha and Gross Beta Radioactivity (Total, Suspended, and Dissolved), Coprecipitation Method for Gross Alpha Radioactivity in Drinking Water	gross alpha radioactivity	141.25(a)/ 611.720(a)
Standard Methods, 22nd ed., Methods 7120 Gamma-Emitting Radionuclides	gamma emitters (including radioactive cesium and iodine)	141.25(a)/ 611.720(a)
Standard Methods, 22nd ed., Methods 7500-Cs B Radioactive Cesium, Precipitation Method	radioactive cesium gamma emitters	141.25(a)/ 611.720(a)
Standard Methods, 22nd ed., Methods 7500- ³ H B Tritium, Liquid Scintillation Spectrometric Method	tritium	141.25(a)/ 611.720(a)
Standard Methods, 22nd ed., Methods 7500-I B Radioactive Iodine, Precipitation Method	radioactive iodine gamma emitters	141.25(a)/ 611.720(a)
Standard Methods, 22nd ed., Methods 7500-I C Radioactive Iodine, Ion-Exchange Method	radioactive iodine	141.25(a)/ 611.720(a)
Standard Methods, 22nd ed., Methods 7500-I D Radioactive Iodine, Distillation Method	radioactive iodine	141.25(a)/ 611.720(a)
Standard Methods, 22nd ed., Methods 7500-Ra B Radium, Precipitation Method	radium-226	141.25(a)/ 611.720(a)
Standard Methods, 22nd ed., Methods 7500-Ra C Radium, Emanation Method	radium-226	141.25(a)/ 611.720(a)
Standard Methods, 22nd ed., Methods 7500-Ra D Radium, Sequential Precipitation Method	radium-228	141.25(a)/ 611.720(a)
Standard Methods, 22nd ed., Methods 7500-Sr B Total Radioactive Strontium and Strontium-90, Precipitation Method	strontium-89 strontium-90	141.25(a)/ 611.720(a)

Standard Methods, 22nd ed., Methods 7500-U B Uranium, Radiochemical Method	uranium	141.25(a)/ 611.720(a)
Standard Methods, 22nd ed., Methods 7500-U C Uranium, Isotopic Method	uranium	141.25(a)/ 611.720(a)
Standard Methods, 22nd ed., Methods 9215 B Heterotrophic Plate Count, Pour Plate Method	heterotrophic bacteria	141.74(a)(1)/ 611.531(a)
Standard Methods, 22nd ed., Methods 9221 A Multiple-Tube Fermentation Techniques for Members of the Coliform Group, Introduction	total coliforms	141.21(f)(3)/ 611.526(c) 141.74(a)(1)/ 611.531(a)
Standard Methods, 22nd ed., Methods 9221 B Multiple-Tube Fermentation Techniques for Members of the Coliform Group, Standard Total Coliform Fermentation Technique	total coliforms	141.21(f)(3)/ 611.526(c) 141.74(a)(1)/ 611.531(a) 141.852(a)(5)/ 611.1052(a)(5)
Standard Methods, 22nd ed., Methods 9221 C Multiple-Tube Fermentation Techniques for Members of the Coliform Group, Estimation or Bacterial Density	total coliforms	141.74(a)(1)/ 611.531(b)
Standard Methods, 22nd ed., Methods 9221 E Multiple-Tube Fermentation Techniques for Members of the Coliform Group, Fecal Coliform Procedure	fecal coliforms	141.21(f)(5)/ 611.526(e) 141.74(a)(1)/ 611.531(b)
Standard Methods, 22nd ed., Methods 9221 F Multiple-Tube Fermentation Techniques for Members of the Coliform Group, <i>Escherichia coli</i> Procedure Using Fluorogenic Substrate	<i>E. coli</i>	141.402(c)(2)/ 611.802(c)(2) 141.852(a)(5)/ 611.1052(a)(5)
Standard Methods, 22nd ed., Methods 9222 D Membrane Filter Technique for Members of the Coliform Group, Thermotolerant (Fecal) Coliform Membrane Filter Procedure	fecal coliforms	141.74(a)(1)/ 611.531(b)
Standard Methods, 22nd ed., Methods 9223 B Enzyme Substrate Coliform Test, Enzyme Substrate Test	total coliforms <i>E. coli</i>	141.21(f)(3)/ 611.526(c) 141.21(f)(6)/ 611.526(f) 141.74(a)(1)/ 611.531(b) 141.402(c)(2)/ 611.802(c)(2) 141.852(a)(5)/ 611.1052(a)(5)

ASTM Method D516-11 Standard Test Method for Sulfate Ion in Water	sulfate	143.4(b)/ None
ASTM Method D1067-11 B Standard Test Methods for Acidity or Alkalinity in Water, Electrometric or Color-Change Titration	alkalinity	141.23(k)(1)/ 611.611(a)
ASTM Method D1293-12 Standard Test Methods for pH of Water	pH	141.23(k)(1)/ 611.611(a)
Charm Fast Phage Fast Phage Test Procedure. Presence/Absence for Coliphage in Ground Water with Same Day Positive Prediction	coliphage	141.402(c)(2)/ 611.802(c)(2)

The Board updated the methods in the appropriate provisions of the Illinois drinking water regulations to add the several newly approved alternative equivalent methods. The Board has undertaken to incorporate the federal changes as near in substance as possible, but has found it necessary to deviate from the federal changes in some regards.

Structural differences exist between the federal regulations and their Illinois counterparts. These differences have required alteration of the way the information is presented. Despite these significant differences in structure, the Board does not intend any substantive differences between the USEPA-approved analytical methods and those set forth in the Illinois regulations.

The federal regulations list most of the approved analytical methods in a tabular format. Each tabular column corresponds with a method's source. The column headings and individual method entries include footnotes to indicate the full title and source of each listed method. *E.g.*, 40 C.F.R. 141.23(k)(1), 141.24(e)(1), 141.25(a), and appendix A to subpart C of 40 C.F.R. 141 (2013) (corresponding with 35 Ill. Adm. Code 611.611(a), 611.645, and 611.720(a)). The Illinois rules deviate from this structure and presentation of methods in several ways.

Initially, the Illinois rules define a short-form reference name for each method, in 35 Ill. Adm. Code 611.102(a). The Illinois rules use this short-form reference name to refer to individual methods throughout the substantive requirements. *E.g.*, 35 Ill. Adm. Code 611.531, 611.611, 611.645, and 611.720.

Second, the Illinois rules further deviate from the federal structure relative to analytical methods for inorganic chemical water quality parameters. The Board changed the federal tabulated listings of approved methods for parameters listed by USEPA to a standard regulatory paragraph format. *Compare* 40 C.F.R. 141.21(f)(3), 141.23(k)(1), 141.25(a), 141.74(a), 141.131(b)(1) and (c)(1), 141.402(c)(2), and 141.852(a)(5) (2013) *with* 35 Ill. Adm. Code 611.526(c), 611.611(a), 611.720(a), 611.531, 611.381(b)(1) and (c)(1), 611.802(c)(2), and 611.1052(a)(5) (respectively); *but see* 35 Ill. Adm. Code 611.645 (corresponding with 40 C.F.R. 141.24(e) (2013); retaining a tabular format).

Third, the Illinois rules incorporate analytical methods by reference in a different manner than has USEPA. The Illinois rules present a centralized listing of incorporations by reference in 35 Ill. Adm. Code 611.102. This incorporation by reference provision lists the approved

methods by source. The Illinois rules further indicate where each method is used in the body of the substantive provisions.

Finally, the Illinois rules include all analytical methods that USEPA has approved for a single water quality parameter in a single place. USEPA has listed the methods that it has approved by rulemaking in the substantive monitoring requirements, in 40 C.F.R. 141.21(f)(3) and (f)(6); 141.23(k)(1); 141.24(e)(1); 141.25(a); 141.74(a)(1) and (a)(2); 141.131(b)(1), (c)(1), and (c)(2); 141.132(b)(3)(ii)(B); 141.402(b); 141.704(b); and 143.4(b) (corresponding with 35 Ill. Adm. Code 611.526(c) and (f); 611.611(a); 611.645, 611.720(a); 611.531; 611.381(b)(1), (c)(1), and (c)(2); 611.382(b)(3)(B)(ii); 611.802(c); 611.1004; and 611.612(f), respectively). USEPA has listed the approved alternative equivalent methods separately from the methods approved by rulemaking, in appendix A to subpart C of 40 C.F.R. 141.

The Board has set forth all alternative equivalent methods in the appropriate substantive provisions—together with the methods that USEPA approved by rulemaking. To distinguish the methods that USEPA approved by rulemaking from those that USEPA approved as alternative equivalent methods using the alternative summary procedure, the Board has added notes in the rules to indicate the methods that USEPA has approved using the expedited procedure.

Any person interested in the substance of the USEPA actions should review the *Federal Register* notice of May 31, 2013 and the correction of June 21, 2013. The federal revisions that were not necessary in this docket are listed in Table 1, which begins on page 28 of this opinion. The changes that the Board has found necessary to make in the text of the federal expedited approvals (besides conversion of format) are indicated in Table 2 (which begins on page 32 of this opinion).

Removed Citations to Standard Methods Online. The publication of the 22nd edition of *Standard Methods for the Examination of Water and Wastewater* (2012) and USEPA approval of equivalent alternative methods from that volume allows the Board to remove limited citations to methods from Standard Methods Online. The Board was able to remove the citations to methods available from Standard Methods Online because the same version of the method appears in the 22nd edition of *Standard Methods*. The Board removed citations to Standard Methods Online, Methods 3112 B-09 (for mercury), 3114 B-04 (for arsenic), and 6610 B-04 (for carbofuran and oxamyl). *See* 35 Ill. Adm. Code 611.611(a)(3) and (a)(16) (corresponding with the entries for arsenic and mercury in the table for 40 C.F.R. 141.23(k)(1) in appendix A to subpart C of 40 C.F.R. 141 (2013)) and 611.645(b) (carbofuran and oxamyl) (corresponding with 40 C.F.R. 141.24(e)(1) (2013)).

Because these methods appear in the printed volumes, the Board does not need to separately cite Standard Methods Online as a source. The regulated community is using the same method from either the 22nd edition of *Standard Methods* or from Standard Methods Online. The incorporation by reference to *Standard Methods* embraces the method from either source. The Board has added explanations to Board notes appended to the Standard Methods Online incorporation by reference and the substantive provisions that authorize use of the methods. *See* notes appended to 35 Ill. Adm. Code 611.102(b) (Standard Methods Online), 611.611(a)(3) and (a)(16), and 611.645(b).

Retained Citations to Standard Methods Online. The Board observes that Standard Methods Online, Method 3113 B-04 does not appear in either the 21st or 22nd edition of *Standard Methods*. A 1999 version of this method appears in the 21st edition, and a 2010 version appears in the 22nd edition. Similarly, Standard Methods Online, Method 9230 B-04 does not appear in either printed volume. A 1993 version of Method 9230 B appears in the 21st edition, and a 2007 version appears in the 22nd edition. The Board has retained both citations to Standard Methods Online.

Request for Comments on the Analytical Methods Amendments. The Board requests public comment on the incorporation of the USEPA May 31, 2013 summary approval of alternative equivalent methods and the June 21, 2013 corrections to that approval into the Illinois regulations. In particular, the Board requests comment on the removals of separate citations to Standard Methods Online, Methods 3112 B-09 and 3114 B-04, since the same methods appear in newly available *Standard Methods*, 22nd edition.

Corrective Amendments

The Board routinely examines federal amendments and the base text of rules open for amendments to find any areas that need correction or clarification. JCAR and the Office of the Secretary of State also routinely examine the text and suggest corrections and clarifications. Sometimes suggestions arise from the Illinois Environmental Protection Agency, USEPA, or members of the regulated community. The Board often makes revisions as a result.

The revisions thus made are not directly derived from federal amendments. The Board is ever mindful of the limited discretion authorized in the context of an identical-in-substance proceeding. The Board is limited to (1) “those changes that are necessary for compliance with the Illinois Administrative Code”; (2) “technical changes that in no way change the scope or meaning of any portion of the regulations”; (3) “USEPA rules that are not applicable to persons or facilities in Illinois”; (4) “things which are outside the Board’s normal functions”; and (5) “apparent typographical and grammatical errors.” *See* 415 ILCS 5/7.2(a), (a)(1), (a)(2), and (a)(7) (2010). Thus, the Board will only make minor, non-substantive corrections and clarifications in this context. These corrections are non-substantive in effect.

The Board is including a number of corrections and clarifications in this docket. The Board has cataloged a small number of necessary corrections and clarifications since the last SDWA update docket, SDWA Subtitle C Update, USEPA Amendments (January 1, 2011 through June 30, 2011), R12-4 (Apr. 19, 2012). This opinion and order does not include specific discussion of most of the particular corrective amendments in detail. All corrections are itemized in Table 3, which begins on page 79 of this opinion. The following segments briefly discuss only the more significant of the corrections.

The Board requests that the Illinois Environmental Protection Agency (Agency), the Joint Committee on Administrative Rules (JCAR), USEPA and the regulated community review the table and the text of the corrections and comment as necessary. The Board also requests ongoing assistance of the Agency, JCAR, and the regulated community in the process of spotting and correcting errors or omissions in the rules. The Board requests that interested persons submit suggestions for the correction of any errors of which they become aware. The Board will either

include the corrections in this docket or catalog them for future revisions if the suggestions relate to segments of the text that are not already involved in this proceeding.

Changed Sources for Methods.

The existing text of 35 Ill. Adm. Code 611.102(b) lists the availability of all the documents incorporated by reference. Preparation of the present proposal revealed that some of those sources have changed. The Board has corrected the sources where needed. The Board will not list those changes in this segment of the discussion. All of the changes are listed in Tables 2 and 3 below.

Normalized References to Issuance of SEPs.

The current amendments add a number of references to special exception permits (SEPs). The existing rules also include a number of references to SEPs. A review of the text, however, indicates inconsistency in the references. Several references refer to a “SEP granted pursuant to Section 611.110.” *See, e.g.*, 35 Ill. Adm. Code 611.351(b)(2), 611.612(c), and 611.901(c)(2). Others refer to a “SEP issued pursuant to Section 611.110.” *See, e.g.*, 35 Ill. Adm. Code 611.351(d)(2), 611.381(d)(2)(B), and 611.901(a)(3)(E). The Board has standardized the language to use “issued.” The standardized use should help avoid confusion that two separate meanings are intended. Further, this word is more often used with regard to permits. The Board will not list those changes in this segment of the discussion. The various changes made are indicated in Table 3 below.

Miscellaneous Other Corrections.

The Board has made a number of other corrections to the text. Many correct past errors and omissions from earlier proceedings. All of the corrections are listed in Table 3 below. The sources of many of the errors and omissions are indicated in the table.

Request for Comments on the Corrective Amendments.

The Board requests public comment on the various corrective amendments included in this docket.

General Revisions and Deviations from the Federal Text

Incorporating the federal rules into the Illinois system requires some unavoidable deviation from the federal text. This deviation arises primarily through differences between the federal and state regulatory structure and systems. Some deviation also arises through errors in and problems with the federal text itself. The Board adapts the federal text to the Illinois rules and regulatory scheme and corrects errors found in the text in the course of these routine update rulemakings.

In addition to the amendments derived from federal amendments, the Board often finds it necessary to alter the text of various passages of the existing rules as provisions are opened for update in response to USEPA actions. This involves correcting deficiencies, clarifying provisions, and making other changes that are necessary to establish a clear set of rules that

closely parallel the corresponding federal requirements within the codification scheme of the Illinois Administrative Code.

The Board updates the citations to the Code of Federal Regulations to the most recent version available. As discussed above, the most recent versions of the *Code of Federal Regulations* available to the Board is the July 1, 2012 edition for USEPA regulations (Title 40). Thus, the Board has updated all citations to Title 40 to the 2012 edition of the *Code of Federal Regulations*, adding references to later amendments using their appropriate *Federal Register* citation, where necessary.

The Board substituted “or” for “/” in most instances where this appeared in the federal base text, using “and” where more appropriate. The Board further used this opportunity to make a number of corrections to punctuation, grammar, spelling, and cross-reference format throughout the opened text. The Board changed “who” to “that” and “he” or “she” to “it,” where the person to which the regulation referred was not necessarily a natural person, or to “he or she,” where a natural person was evident; changed “which” to “that” for restrictive relative clauses; substituted “must” for “shall”; capitalized the section headings and corrected their format where necessary; and corrected punctuation within sentences.

In addition, the federal rules have been edited to establish a uniform usage throughout the Board’s regulations. For example, with respect to “shall,” “will,” and “may,” “must” is used when an action is required by the rule, without regard to whether the action is required of the subject of the sentence or not. “Shall” is no longer used, since it is not used in everyday language. Thus, where a federal rule uses “shall,” the Board substitutes “must.” This is a break from our former practice where “shall” was used when the subject of a sentence has a duty to do something. “Will” is used when the Board obliges itself to do something. “May” is used when choice of a provision is optional. “Or” is used rather than “and/or,” and denotes “one or both.” “Either . . . or” denotes “one but not both.” “And” denotes “both.”

JCAR has requested that the Board refer to the United States Environmental Protection Agency in the same manner throughout all of our bodies of regulations—*i.e.*, air, water, drinking water, RCRA Subtitle D (municipal solid waste landfill), Resource Conservation and Recovery Act (RCRA) Subtitle C (hazardous waste), underground injection control (UIC), etc. The Board has decided to refer to the United States Environmental Protection Agency as “USEPA.” The Board will continue this conversion in future rulemakings as additional sections become open to amendment. The Board will further convert “EPA” used in federal text to “USEPA,” where USEPA is clearly intended.

As is described in the following segment, the Board has assembled tables to aid in the location of these alterations to the text.

**Tabulations of Deviations from the Literal Text of the Federal Amendments
and Miscellaneous Board Housekeeping Amendments**

The tables below list numerous corrections and amendments that do not literally follow the current federal amendments. Table 1 (beginning immediately below) lists a number of federal amendments that the Board has not included in this docket. Table 1 gives a brief

explanation why the Board has declined to make each. Table 2 (beginning immediately after Table 1 on page 32) includes deviations made in this proposal for public comment from the verbatim text of the federal amendments. Table 3 (beginning immediately after Table 2 on page 79) contains corrections and clarifications that the Board made in the base text involved in this proposal. The amendments listed in Table 3 are not directly derived from the current federal amendments. Some of the entries in these tables are discussed further in appropriate segments of the general discussion beginning at page 4 of this opinion. No further discussion appears elsewhere in this opinion for most of the deviations and revisions outside of these summary listings.

**Table 1:
Federal Amendments That Are
Not Necessary in This Docket**

Provision Citations 40 C.F.R./ 35 Ill. Adm. Code	USEPA Amendment/ Explanation Why Not Made in This Docket
appendix A to subpart C of 40 C.F.R. 141, table for 40 C.F.R. 143,4(b), aluminum, Standard Methods, 22nd ed., Methods 3111 D, 3113 B, and 3120 B/ 611.112	There was no need to add the equivalent method because there is no corresponding standard for aluminum in the Illinois regulation.
appendix A to subpart C of 40 C.F.R. 141, table for 40 C.F.R. 143,4(b), chloride, Standard Methods, 22nd ed., Methods 4110 B, 4500-Cl ⁻ B, and 4500-Cl D/ 611.112	There was no need to add the equivalent method because there is no corresponding standard for chloride in the Illinois regulation.

<p>appendix A to subpart C of 40 C.F.R. 141, table for 40 C.F.R. 143,4(b), color, Standard Methods, 22nd ed., Method 2120 B/ 611.112</p>	<p>There was no need to add the equivalent method because there is no corresponding standard for color in the Illinois regulation.</p>
<p>appendix A to subpart C of 40 C.F.R. 141, table for 40 C.F.R. 143,4(b), foaming agents, Standard Methods, 22nd ed., Method 5540 C/ 611.112</p>	<p>There was no need to add the equivalent method because there is no corresponding standard for foaming agents in the Illinois regulation.</p>
<p>appendix A to subpart C of 40 C.F.R. 141, table for 40 C.F.R. 143,4(b), odor, Standard Methods, 22nd ed., Method 2150 B/ 611.112</p>	<p>There was no need to add the equivalent method because there is no corresponding standard for odor in the Illinois regulation.</p>
<p>appendix A to subpart C of 40 C.F.R. 141, table for 40 C.F.R. 143,4(b), silver, Standard Methods, 22nd ed., Methods 3111 B, 3113 B, and 3120 B/ 611.112</p>	<p>There was no need to add the equivalent method because there is no corresponding standard for silver in the Illinois regulation.</p>
<p>appendix A to subpart C of 40 C.F.R. 141, table for 40 C.F.R. 143,4(b), sulfate, Standard Methods, 22nd ed., Methods 4110 B and 4500-SO₄⁻² C, D, E, and F/ 611.112</p>	<p>There was no need to add the equivalent method because there is no corresponding standard for sulfate in the Illinois regulation.</p>

<p>appendix A to subpart C of 40 C.F.R. 141, table for 40 C.F.R. 143,4(b), total dissolved solids, Standard Methods, 22nd ed., Method 2540 C/ 611.112</p>	<p>There was no need to add the equivalent method because there is no corresponding standard for total dissolved solids in the Illinois regulation.</p>
<p>note 21 to appendix A to subpart C of 40 C.F.R. 141/ 611.102(b) EMD Millipore, “Chromocult”</p>	<p>There was no need to restore the text omitted from the 2012 version of 40 C.F.R. 141.</p>
<p>note 22 to appendix A to subpart C of 40 C.F.R. 141/ 611.102(b) Hach Company, “Hach SPADNS Method 10225”</p>	<p>There was no need to restore the text omitted from the 2012 version of 40 C.F.R. 141.</p>
<p>note 23 to appendix A to subpart C of 40 C.F.R. 141/ 611.102(b) Hach Company, “Hach TNTplus Nitrate Method 10206”</p>	<p>There was no need to restore the text omitted from the 2012 version of 40 C.F.R. 141.</p>
<p>note 24 to appendix A to subpart C of 40 C.F.R. 141/ 611.102(b) USEPA, ORD, “USEPA NERL Method 525.3, ver. 1.0”</p>	<p>There was no need to restore the text omitted from the 2012 version of 40 C.F.R. 141.</p>

<p>note 25 to appendix A to subpart C of 40 C.F.R. 141/ 611.102(b) USEPA, OGWDW, “USEPA OGWDW Methods, Method 536, ver. 1.0”</p>	<p>There was no need to restore the text omitted from the 2012 version of 40 C.F.R. 141.</p>
<p>note 26 to appendix A to subpart C of 40 C.F.R. 141/ 611.102(b) USEPA, OGWDW, “USEPA OGWDW Methods, Method 523, ver. 1.0”</p>	<p>There was no need to restore the text omitted from the 2012 version of 40 C.F.R. 141.</p>
<p>note 27 to appendix A to subpart C of 40 C.F.R. 141/ 611.102(b) USEPA, OGWDW, “USEPA OGWDW Methods, Method 1623.1”</p>	<p>There was no need to restore the text omitted from the 2012 version of 40 C.F.R. 141.</p>
<p>note 28 to appendix A to subpart C of 40 C.F.R. 141/ 611.102(b) AWWA, Standard Methods 22nd ed.</p>	<p>There was no need to restore the text omitted from the 2012 version of 40 C.F.R. 141.</p>
<p>141.63(a)(1)/ 611.325(a)(1)</p>	<p>There was no need to change “which collects” to “that collects,” as the Board had already made that change for the restrictive relative clause.</p>
<p>141.63(a)(2)/ 611.325(a)(2)</p>	<p>There was no need to change “which collects” to “that collects,” as the Board had already made that change for the restrictive relative clause. There was no need to change “samples/month” to “samples per month,” as the Board had already made that change.</p>
<p>141.74(b)(6)(i)/ 611.532(f)(1)</p>	<p>There was not need to correct the cross reference “paragraph (a)(3)” to “paragraph (a)(1),” since the Illinois text does not include the cross-reference.</p>

141.132(c)(1)(i)/ 611.382(c)(1)(A)	There was no need to hyphenate “non-transient non-community,” since the Illinois provision uses defined abbreviations. See the entry in table 2 below.
141.402(a)(2)(iii)/ 611.802(a)(2)(C)	There was not need to change “1,000 people or fewer” to “1,000 or fewer people.”
141.402(a)(4)/ 611.802(a)(4)	There was no need to change the em-dash after the topical sub-heading to a period.
141.803(a)(3) and (a)(5)/ None	There is no counterpart to these federal provisions in the Illinois regulations.
141.153(c)(4)(ii)/ 611.883(d)(4)(D)	Did not change plural “total coliforms” to singular “total coliform.”
141, Subpart Q, App. A, note 1/ 611.App G, note 1	There is no need to correct “primary agency” to “primacy agency,” since this appears as “Agency” in the Illinois text.

**Table 2:
Deviations from the Text of the Federal Amendments**

Illinois Section	40 C.F.R. Section	Revision(s)
611 table of contents, 611.1053 heading	141 table of contents, 141.853 heading	Changed “public water systems” to the defined abbreviation “PWSs.”
611 table of contents, 611.1054 heading	141 table of contents, 141.854 heading	Changed “non-community water systems” to the defined abbreviation “non-CWSs”; changed “serving” to “that serve”; changed “ground water” to “groundwater.”
611 table of contents, 611.1055 heading	141 table of contents, 141.855 heading	Changed “community water systems” to the defined abbreviation “CWSs”; changed “serving” to “that serve”; changed “ground water” to “groundwater.”
611 table of contents, 611.1056 heading	141 table of contents, 141.856 heading	Changed “subpart H public water systems” to the defined term “Subpart B systems”; changed “serving” to “that serve.”

611 table of contents, 611.1057 heading	141 table of contents, 141.856 heading	Changed “public water systems serving” to “PWSs that serve.”
611.101 “clean compliance history”	141.2 “clean compliance history”	Placed the defined term “clean compliance history” in quotation marks; changed “is” to “means”; changed “subpart Y” to “Subpart AA.”
611.101 “E. coli”	78 Fed. Reg. 10270, 10271 (Feb. 13, 2013)	Added the definition of the term, together with an explanatory Board note.
611.101 “Level 1 assessment”	141.2 “Level 1 assessment”	Placed the defined term “Level 1 assessment” in quotation marks; changed “is” to “means”; changed “it” to “A level 1 assessment”; changed “system” to “supplier”; changed “State directives” to “Agency-imposed permit conditions.”
611.101 “Level 2 assessment”	141.2 “Level 2 assessment”	Placed the defined term “Level 2 assessment” in quotation marks; changed “is” to “means”; changed “it” to “A level 2 assessment”; changed “an individual” to “a person”; changed “the State” to “a SEP granted by the Agency pursuant to Section 611.130” (twice); changed “which” to “and that person”; changed “system” to “supplier” (twice); ; changed “State directives” to “Agency-imposed permit conditions”; changed “case” to “instance.”
611.101 “sanitary defect”	141.2 “sanitary defect”	Placed the defined term “sanitary defect” in quotation marks; changed “is” to “means”; changed “that” to “which” for a subsequent restrictive relative clause; changed “barrier” to “barrier to microbial contamination.”

611.101 “seasonal system”	141.2 “seasonal system”	Placed the defined term “seasonal system” in quotation marks; changed “non-community water system” to the defined abbreviation “non-CWS”; changed “public water system” to the defined abbreviation “PWS”; changed “that” to “which” for a subsequent restrictive relative clause.
611.102(a) “Charm Fast Phage”	141, appendix A to subpart C, note 30	Changed “Version 009” to lower-case “version 009” and removed the period; changed the date information “November 2012” to “Nov. 2012” in parentheses; added “available from” and the offsetting comma and moved “Charmed Sciences Inc.” from the beginning to the end. See the entry for 611.102(b) “Charm Sciences” in this Table 2.
611.102(a) “Chromocult® Method”	141.21(f)(3) table, note 14	Changed the availability from “EM Science” to “EMD Millipore” to agree with 40 C.F.R. 141, appendix A to subpart C, note 21.
611.102(a) “Readycult® 2000”	141.21(f)(3) table, note 13	Changed the availability from “EM Science” to “EMD Millipore” to agree with 40 C.F.R. 141, appendix A to subpart C, note 20.
611.102(b) AWWA, “Standard Methods, 20th ed.,” Method 9060 A”	141.852(a)(4)	Reformatted the reference to the Board-standard format; added “referenced in Section 611.1052” offset by a comma.
611.102(b) AWWA, “Standard Methods, 21st ed.,” Method 9221 B”	141.852(a)(5) table and (c) and appendix A to 141, subpart C, tables for 141.21(f)(3) and (f)(5) and 141.74(a)(1)	Reformatted the reference to the Board-standard format; added “referenced in Section 611.1052” offset by a comma.
611.102(b) AWWA, “Standard Methods, 21st ed.,” Method 9221 C”	141.852(a)(5) table, note 7 and (c), and appendix A to 141, subpart C, table for 141.74(a)(1)	Reformatted the reference to the Board-standard format; added “referenced in Section 611.1052” offset by a comma.

611.102(b) AWWA, “Standard Methods, 21st ed.,” Method 9221 D”	141.852(a)(5) table and (c)	Reformatted the reference to the Board-standard format; added “referenced in Section 611.1052” offset by a comma.
611.102(b) AWWA, “Standard Methods, 21st ed.,” Method 9222 B”	141.852(a)(5) table and (c)	Reformatted the reference to the Board-standard format; added “referenced in Section 611.1052” offset by a comma.
611.102(b) AWWA, “Standard Methods, 21st ed.,” Method 9223 B”	141.852(a)(5) table and (c)	Reformatted the reference to the Board-standard format; added “referenced in Section 611.1052” offset by a comma.
611.102(b) AWWA, “Standard Methods, 22nd ed.”	Appendix A to 141, subpart C, tables for 141.21(f)(3), (f)(5), and (f)(6); 141.23(k)(1); 141.24(e)(1); 141.25(a); 141.74(a)(1) and (a)(2); 141.131(a)(2), (b)(1), (c)(1), and (d); 141.402(c)(2); 141.852(a)(5); and 143.4(b)	Reformatted the references to the Board-standard format; added the location(s) where each is referenced in the substantive provisions, offset by a comma.
611.102(b) AWWA, “Standard Methods, 22nd ed.” Board note	Appendix A to 141, subpart C, tables for 141.21(f)(6); 141.23(k)(1); 141.24(e)(1); 141.402(c)(2); and 143.4(b)	Added explanation that some methods in Standard Methods, 22nd ed. subsume that USEPA has cited as available from Standard Methods Online.
611.102(b) AWWA, “Analytic Technology, Inc.”	141.23(k)(1) table, note 7 and (c)	Moved the entry for “Technical Bulletin 601” to Thermo Scientific and removed the entry for Analytic Technology, Inc. to reflect the change in source for this method.
611.102(b) ASTM, ASTM Method D1067-11 B	141.23(k)(1) table, note 4	Reformatted the reference to the Board-standard format; added “referenced in Section 611.611” offset by a comma.

611.102(b) ASTM, ASTM Method D1293-12	141.23(k)(1) table, note 4	Reformatted the reference to the Board-standard format; added “referenced in Section 611.611” offset by a comma.
611.102(b) Charm Sciences, Inc., “E*Colite Test”	141.852(a)(5) table and (c)	Reformatted the reference to the Board-standard format; added “referenced in Section 611.1052” offset by a comma.
611.102(b) Charm Sciences, Inc., “Fast Phage Test”	Appendix A to 141, subpart C, table for 141.402(c)(2) and note 30	Reformatted the reference to the Board-standard format; changed “Version 009” to lower-case “version 009”; placed the version date “Nov. 2012)” in parentheses; added the parenthetical “(referred to as ;Fast Phage Test’);” added “referenced in Section 611.1052” offset by a comma.
611.102(b) EMD Millipore, “Chromocult Method”	141.852(a)(5) table and (c)	Retained the reference in the Board-standard format; added “611.1052” offset by a comma.
611.102(b) EMD Millipore, “Readycult® 2007”	141.852(a)(5) table and (c)	Retained the reference in the Board-standard format; added “611.1052” offset by a comma.
611.102(b) The Hach Company, “m-ColiBulue24 Test”	141.852(a)(5) table and (c)	Retained the reference in the Board-standard format; added “611.1052” offset by a comma.
611.102(b) Thermo Scientific, “Technical Bulletin 601”	141.23(k)(1) table, note 7	Changed the document source from “ATI Orion,” which no longer exists.
611.102(b) USDHS, STD	141.25(a) table, note 8	Changed the document source name from “U.S. Department of Energy, Environmental Measurements Laboratory” to “U.S. Department of Homeland Security, Science and Technology Directorate,” (See http://www.nbl.doe.gov/htm/EML_Legacy_Website/.)

611.102(b) USEPA, NSCEP, "USEPA OGWDW Methods, Method 524.4"	Appendix A to 141, subpart C, table for 141.131(b)(1) and note 29	Changed "USEPA OGWDW Methods, Method 524.4, rev. 1.0" to "USEPA OGWDW Methods, Method 524.4," since no version number appears on the document itself.
611.102(b) USEPA, Water Resource Center, "E*Colite Test"	141.852(a)(5) table and (c)	Reformatted the reference to the Board-standard format; added "referenced in Section 611.1052" offset by a comma.
611.102(b) USEPA, Water Resource Center, "m-ColiBlue24 Test"	141.852(a)(5) table and (c)	Reformatted the reference to the Board-standard format; added "referenced in Section 611.1052" offset by a comma.
611.102(b) USEPA, Water Resource Center, "Fast Phage Test"	Appendix A to 141, subpart C, table for 141.402(c)(2) and note 30	Reformatted the reference to the Board-standard format; changed "Version 009" to lower-case "version 009"; placed the version date "Nov. 2012" in parentheses; added the parenthetical "(referred to as ;Fast Phage Test)"; added "referenced in Section 611.1052" offset by a comma.
611.102(b) USEPA, Water Resource Center, "m-ColiBlue24 Test"	141.402(c)(2) table, note 5	Reformatted the reference to the Board-standard format; added "611.1052" offset by a comma.
611.102(b) USEPA, Water Resource Center, "E*Colite Test"	141.402(c)(2) table, note 6	Reformatted the reference to the Board-standard format; added "611.1052" offset by a comma.
611.102(b) USEPA, Water Resource Center, "USEPA Method 1604"	141.402(c)(2) table, note 4	Reformatted the reference to the Board-standard format; added "611.1052" offset by a comma.
611.111(e)(1)	141.4(b)	Retained the existing Illinois structure, which separates the three exceptions in separate subsections and combines the language relating to stay of the provision into the exception pertaining to the total coliform MCL; changed "this is stayed until" to "until" before "March 31, 2013"; changed "at which time" to "when"; added the Board can no longer grant relief from the total coliform MCL."

611.111(e)(1) Board note	141.4(b) note	Reformatted the text to appear as a separate dependent note; changed “note to paragraph (a)” to “BOARD NOTE:”; changed “small system variances are” to singular “a small system variance is”; changed “addressing” to “that address”; changed “which would include” to “which include.”
611.112(g)(1)	141.4(b)	Retained the existing Illinois structure, which separates the three exceptions in separate subsections and combines the language relating to stay of the provision into the exception pertaining to the total coliform MCL; changed “this is stayed until” to “until” before “March 31, 2013”; changed “at which time” to “when”; added the Board can no longer grant relief from the total coliform MCL.”
611.112(g)(1) Board note	141.4(b) note	Reformatted the text to appear as a separate dependent note; changed “note to paragraph (a)” to “BOARD NOTE:”; changed “small system variances are” to singular “a small system variance is”; changed “addressing” to “that address”; changed “which would include” to “which include.”
611.325(c)	141.63(c)	Changed “a system” to “a supplier.”
611.325(c)(1)	141.63(c)(1)	Changed “a system” to “a supplier.”
611.325(c)(2)	141.63(c)(2)	Changed “a system” to “a supplier.”
611.325(c)(3)	141.63(c)(3)	Changed “a system” to “a supplier.”
611.325(c)(4)	141.63(c)(4)	Changed “a system” to “a supplier.”
611.325(d)	141.63(d)	Changed “a system” to “a supplier.”
611.325(e)(3)	141.63(e)(3)	Added a comma after “reservoirs” to offset the element of the series that follows.

611.325(f)	141.63(f)	Changed “the Administrator, pursuant to section 1412 of the Act, hereby identifies” to “USEPA has identified, pursuant to 42 USC 300g-1,”; changed “systems” to “suppliers”; changed “maximum contaminant level” to the defined abbreviation “MCL.”
611.325(b)(1)(A) Board note	Appendix A to 141, subpart C, table for 141.131(b)(1)	Added explanation of USEPA adding USEPA OGWDW Methods, Method 524.4 as an approved alternative method for total trihalomethanes.
611.325(b)(1)(B) Board note	Appendix A to 141, subpart C, table for 141.131(b)(1)	Added explanation of USEPA adding Standard Methods, 22nd ed., Method 6251 B as an approved alternative method for HAA5.
611.325(b)(1)(D) Board note	Appendix A to 141, subpart C, table for 141.131(b)(1)	Added explanation of USEPA adding Standard Methods, 22nd ed., Method 4500-ClO ₂ E as an approved alternative method for chlorite.
611.381(c)(1)(A) Board note	Appendix A to 141, subpart C, table for 141.131(c)(1)	Added explanation of USEPA adding Standard Methods, 22nd ed., Methods 4500-Cl D, E, F, G, and H as approved alternative methods for free chlorine.
611.381(c)(1)(B) Board note	Appendix A to 141, subpart C, table for 141.131(c)(1)	Added explanation of USEPA adding Standard Methods, 22nd ed., Methods 4500-Cl D, F, and G as approved alternative methods for combined chlorine.
611.381(c)(1)(C) Board note	Appendix A to 141, subpart C, table for 141.131(c)(1)	Added explanation of USEPA adding Standard Methods, 22nd ed., Methods 4500-Cl D, E, F, G, and I as approved alternative methods for total chlorine.
611.381(c)(1)(D) Board note	Appendix A to 141, subpart C, table for 141.131(c)(1)	Added explanation of USEPA adding Standard Methods, 22nd ed., Method 4500-ClO ₂ E as an approved alternative method for chlorine dioxide.

611.381(d)(3) Board note	Appendix A to 141, subpart C, table for 141.131(d)	Added explanation of USEPA adding Standard Methods, 22nd ed., Method 5310 B, C, and D as approved alternative methods for total organic carbon.
611.381(d)(4)(A) Board note	Appendix A to 141, subpart C, table for 141.131(d)	Added explanation of USEPA adding Standard Methods, 22nd ed., Method 5310 B, C, and D as approved alternative methods for dissolved organic carbon.
611.381(d)(4)(B) Board note	Appendix A to 141, subpart C, table for 141.131(d)	Added explanation of USEPA adding Standard Methods, 22nd ed., Method 5910 B as an approved alternative method for ultraviolet absorption at 254 nm.
611.382(c)(1)(A)	141.132(c)(1)(i)	Retained the existing singular and use of the abbreviations “CWS” and “NTNCWS”; changed “community and non-transient non-community water systems that use” to the singular, defined abbreviations “a CWS or NTNCWS supplier that uses”
611.526(c) Board note	Appendix A to 141, subpart C, table for 141.21(f)(3)	Added explanation of USEPA adding Standard Methods, 22nd ed., Methods 9221 A and B and 9223 B as approved alternative methods for total coliforms.
611.526(e) Board note	Appendix A to 141, subpart C, table for 141.21(f)(5)	Added explanation of USEPA adding Standard Methods, 22nd ed., Method 9221 E as an approved alternative method for fecal coliforms.
611.526(f) Board note	Appendix A to 141, subpart C, table for 141.21(f)(6)	Added explanation that Standard Methods Online, Method 9223 B-97 is not listed separately because it is the same as Standard Methods, 21st ed., Method 9223 B; added explanation of USEPA adding Standard Methods, 22nd ed., Method 9223 B as an approved alternative method for E. coli.

611.528	141.21(h)	Changed “are applicable” to “apply” (three times); changed “systems” to “suppliers.”
611.531(a)(2)(A) Board note	Appendix A to 141, subpart C, table for 141.74(a)(1)	Added explanation of USEPA adding Standard Methods, 22nd ed., Methods 9221 A, B, and C and 9223 B as approved alternative methods for total coliforms.
611.531(a)(2)(B) Board note	Appendix A to 141, subpart C, table for 141.74(a)(1)	Added explanation of USEPA adding Standard Methods, 22nd ed., Methods 9221 E and 9222 D as approved alternative methods for fecal coliforms.
611.531(a)(2)(C) Board note	Appendix A to 141, subpart C, table for 141.74(a)(1)	Added explanation of USEPA adding Standard Methods, 22nd ed., Method 9215 B as an approved alternative method for heterotrophic bacteria.
611.531(a)(2)(D) Board note	Appendix A to 141, subpart C, table for 141.74(a)(1)	Added explanation of USEPA adding Standard Methods, 22nd ed., Method 2130 B as an approved alternative method for turbidity.
611.531(b)(1) Board note	Appendix A to 141, subpart C, table for 141.74(a)(2)	Added explanation of USEPA adding Standard Methods, 22nd ed., Methods 4500-Cl B, F, G, and H as approved alternative methods for free chlorine.
611.531(b)(2) Board note	Appendix A to 141, subpart C, table for 141.74(a)(2)	Added explanation of USEPA adding Standard Methods, 22nd ed., Methods 4500-Cl D, E, F, G, and I as approved alternative methods for total chlorine.
611.531(b)(4) Board note	Appendix A to 141, subpart C, table for 141.74(a)(2)	Added explanation of USEPA adding Standard Methods, 22nd ed., Method 4500-O ₃ B as an approved alternative method for ozone.
611.531(b)(5) Board note	Appendix A to 141, subpart C, table for 141.74(a)(2)	Added explanation of USEPA adding Standard Methods, 22nd ed., Methods 4500-ClO ₂ C and E as approved alternative methods for chlorine dioxide.

611.532(f)(1)	141.74(b)(6)(i)	Changed “residual chlorine concentration” to the defined abbreviation “RDC.”
611.533(c)(1)	141.74(c)(3)(i)	Changed “residual chlorine concentration” to the defined abbreviation “RDC”; removed the comma from before “and a groundwater source,” rather than add one afterward.
611.611(a)(1) Board note	Appendix A to 141, subpart C, table for 141.23(k)(1)	Added explanation that Standard Methods Online, Method 3113 B-04 is not listed separately because it is the same as Standard Methods, 21st ed., Method 3113 B; added explanation of USEPA adding Standard Methods, 22nd ed., Method 2320 B and ASTM Method D1067-11 B as approved alternative methods for alkalinity.
611.611(a)(2) Board note	Appendix A to 141, subpart C, table for 141.23(k)(1)	Added explanation of USEPA adding Standard Methods, 22nd ed., Method 3113 B as an approved alternative method for antimony.
611.611(a)(3) Board note	Appendix A to 141, subpart C, table for 141.23(k)(1)	Added explanation of USEPA adding Standard Methods, 22nd ed., Methods 3113 B and 3114 B as approved alternative methods for arsenic; added explanation that Standard Methods Online, Method 3113 B-09 is not listed separately because it is the same as Standard Methods, 21st ed., Method 3113 B. See the entry in Table 3 below.
611.611(a)(5) Board note	Appendix A to 141, subpart C, table for 141.23(k)(1)	Added explanation of USEPA adding Standard Methods, 22nd ed., Methods 3111 D, 3113 B, and 3120 B as approved alternative methods for barium.
611.611(a)(6) Board note	Appendix A to 141, subpart C, table for 141.23(k)(1)	Added explanation of USEPA adding Standard Methods, 22nd ed., Methods 3113 B and 3120 B as approved alternative methods for beryllium.

611.611(a)(7) Board note	Appendix A to 141, subpart C, table for 141.23(k)(1)	Added explanation of USEPA adding Standard Methods, 22nd ed., Method 3113 B as an approved alternative methods for cadmium.
611.611(a)(8) Board note	Appendix A to 141, subpart C, table for 141.23(k)(1)	Added explanation of USEPA adding Standard Methods, 22nd ed., Methods 3111 D, 3120 B, and 3500-Ca B as approved alternative methods for calcium.
611.611(a)(9) Board note	Appendix A to 141, subpart C, table for 141.23(k)(1)	Added explanation of USEPA adding Standard Methods, 22nd ed., Methods 3113 B and 3120 B as approved alternative methods for chromium.
611.611(a)(10) Board note	Appendix A to 141, subpart C, table for 141.23(k)(1)	Added explanation of USEPA adding Standard Methods, 22nd ed., Methods 3111 D, 3113 B, and 3120 B as approved alternative methods for copper.
611.611(a)(11) Board note	Appendix A to 141, subpart C, table for 141.23(k)(1)	Added explanation of USEPA adding Standard Methods, 22nd ed., Method 2510 B as an approved alternative method for conductivity.
611.611(a)(12) Board note	Appendix A to 141, subpart C, table for 141.23(k)(1)	Added explanation of USEPA adding Standard Methods, 22nd ed., Methods 4500-CN ⁻ E, F, and G as approved alternative methods for cyanide.
611.611(a)(13) Board note	Appendix A to 141, subpart C, table for 141.23(k)(1)	Added explanation of USEPA adding Standard Methods, 22nd ed., Methods 4110 B and 4500-F ⁻ B, C, D, and E as approved alternative methods for cyanide.
611.611(a)(14) Board note	Appendix A to 141, subpart C, table for 141.23(k)(1)	Added explanation of USEPA adding Standard Methods, 22nd ed., Method 3113 B as an approved alternative method for lead.

611.611(a)(15) Board note	Appendix A to 141, subpart C, table for 141.23(k)(1)	Added explanation of USEPA adding Standard Methods, 22nd ed., Methods 3111 B, 3120 B and 3500-Mg B as approved alternative methods for magnesium.
611.611(a)(16)(A)(iv)	Appendix A to 141, subpart C, table for 141.23(k)(1)	Removed the entry for Standard Methods, Method 3112 B-09, since this is the same version that as Standard Methods, 21st ed., Method 3112 B.
611.611(a)(16) Board note	Appendix A to 141, subpart C, table for 141.23(k)(1)	Added explanation of USEPA adding Standard Methods, 22nd ed., Method 3112 B as an approved alternative methods for mercury; added explanation that Standard Methods Online, Method 3112 B-09 is not listed separately because it is the same as Standard Methods, 22nd ed., Method 3112 B. See the entry in Table 3 below.
611.611(a)(17) Board note	Appendix A to 141, subpart C, table for 141.23(k)(1)	Added explanation that Standard Methods Online, Method 3113 B-09 is not listed separately because it is the same as Standard Methods, 21st ed., Method 3113 B; added explanation of USEPA adding Standard Methods, 22nd ed., Method 3111 B as an approved alternative method for nickel.
611.611(a)(18) Board note	Appendix A to 141, subpart C, table for 141.23(k)(1)	Added explanation of USEPA adding Standard Methods, 22nd ed., Methods 4500-NO ₃ ⁻ D, E, and F and 4110 B as approved alternative methods for nitrate.
611.611(a)(19) Board note	Appendix A to 141, subpart C, table for 141.23(k)(1)	Added explanation of USEPA adding Standard Methods, 22nd ed., Methods 4500-NO ₃ ⁻ E and F, 4500-NO ₂ ⁻ B, and 4110 B as approved alternative methods for nitrite.

611.611(a)(20) Board note	Appendix A to 141, subpart C, table for 141.23(k)(1)	Added explanation that Standard Methods Online, Methods 4500-P E-99 and F-99 are not listed separately because they are the same as Standard Methods, 21st ed., Methods 4500-P E and F; added explanation of USEPA adding Standard Methods, 22nd ed., Methods 4500-P E and F as approved alternative methods for orthophosphate.
611.611(a)(21) Board note	Appendix A to 141, subpart C, table for 141.23(k)(1)	Added explanation of USEPA adding Standard Methods, 22nd ed., Methods 4500-H ⁺ B and ASTM Method D1293-12 as approved alternative methods for pH.
611.611(a)(22)(A)(iii)	Appendix A to 141, subpart C, table for 141.23(k)(1)	Removed the entry for Standard Methods Online, Method 3114 B-09, since this is the same version that as Standard Methods, 21st ed., Method 3114 B. See the entry in Table 3 below.
611.611(a)(22) Board note	Appendix A to 141, subpart C, table for 141.23(k)(1)	Added explanation of USEPA adding Standard Methods, 22nd ed., Methods 3113 B and 3114 B as approved alternative methods for selenium; added explanation that Standard Methods Online, Method 3114 B-09 is not listed separately because it is the same as Standard Methods, 22nd ed., Method 3114 B.
611.611(a)(23) Board note	Appendix A to 141, subpart C, table for 141.23(k)(1)	Added explanation of USEPA adding Standard Methods, 22nd ed., Methods 4500-SiO ₂ C, D, and E and 3120 B as approved alternative methods for silica.
611.611(a)(24) Board note	Appendix A to 141, subpart C, table for 141.23(k)(1)	Added explanation of USEPA adding Standard Methods, 22nd ed., Method 3111 B as an approved alternative method for sodium.
611.611(a)(25) Board note	Appendix A to 141, subpart C, table for 141.23(k)(1)	Added explanation of USEPA adding Standard Methods, 22nd ed., Method 2550 as an approved alternative method for temperature.

611.612(f)(2) Board note	Appendix A to 141, subpart C, table for 143.4(b)	Added explanation of USEPA adding Standard Methods, 22nd ed., Methods 3111 D, 3113 B, and 3120 B as approved alternative methods for iron.
611.612(f)(3) Board note	Appendix A to 141, subpart C, table for 143.4(b)	Added explanation of USEPA adding Standard Methods, 22nd ed., Methods 3111 D, 3113 B, and 3120 B as approved alternative methods for manganese.
611.612(f)(4) Board note	Appendix A to 141, subpart C, table for 143.4(b)	Added explanation of USEPA adding Standard Methods, 22nd ed., Methods 3111 B and 3120 B as approved alternative methods for zinc.
611.645(a) generally	Appendix A to 141, subpart C, table for 141.24(e)(1)	Retained the existing Illinois structure for listing methods.
611.645(a) Board note	Appendix A to 141, subpart C, table for 141.24(e)(1)	Added explanation of USEPA adding USEPA OGWDW Method 524.4 as an approved alternative method for VOCs.
611.645(b), carbofuran	Appendix A to 141, subpart C, table for 141.24(e)(1)	Removed the entry for Standard Methods Online, Method 6610 B-04, since this is the same version that as Standard Methods, 22nd ed., Method 6610 B.
611.645(b), oxamyl	Appendix A to 141, subpart C, table for 141.24(e)(1)	Removed the entry for Standard Methods Online, Method 6610 B-04, since this is the same version that as Standard Methods, 22nd ed., Method 6610 B.
611.645(b) Board note	Appendix A to 141, subpart C, table for 141.24(e)(1)	Added explanation of USEPA adding Standard Methods 22nd ed. Method 6610 B and Standard Methods Online, Method 6610 B-04 for carbofuran and oxamyl and Standard Methods, 22nd ed., Method 6640 B and 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.

611.645(c) generally	Appendix A to 141, subpart C, table for 141.24(e)(1)	Retained the existing Illinois structure for listing methods.
611.645(c) Board note	Appendix A to 141, subpart C, table for 141.24(e)(1)	Added explanation of USEPA adding USEPA OGWDW Method 524.4 as an approved alternative method for trihalomethanes.
611.720(a)(1) Board note	Appendix A to 141, subpart C, table for 141.25(a)	Added explanation of USEPA adding Standard Methods, 22nd ed., Method 7110 B as an approved alternative method for gross alpha and beta.
611.720(a)(2) Board note	Appendix A to 141, subpart C, table for 141.25(a)	Added explanation of USEPA adding Standard Methods, 22nd ed., Method 7110 C as an approved alternative method for gross alpha.
611.720(a)(3) Board note	Appendix A to 141, subpart C, table for 141.25(a)	Added explanation of USEPA adding Standard Methods, 22nd ed., Methods 7500-Ra B and C as approved alternative methods for radium-226.
611.720(a)(4) Board note	Appendix A to 141, subpart C, table for 141.25(a)	Added explanation of USEPA adding Standard Methods, 22nd ed., Method 7500-Ra D as an approved alternative method for radium-228.
611.720(a)(5) Board note	Appendix A to 141, subpart C, table for 141.25(a)	Added explanation of USEPA adding Standard Methods, 22nd ed., Methods 7500-U B and C as approved alternative methods for uranium.
611.720(a)(6) Board note	Appendix A to 141, subpart C, table for 141.25(a)	Added explanation of USEPA adding Standard Methods, 22nd ed., Methods 7120 and 7500-Cs B as approved alternative methods for radioactive cesium.
611.720(a)(7) Board note	Appendix A to 141, subpart C, table for 141.25(a)	Added explanation of USEPA adding Standard Methods, 22nd ed., Methods 7120 and 7500-I B, C, and D as approved alternative methods for radioactive iodine.

611.720(a)(8) Board note	Appendix A to 141, subpart C, table for 141.25(a)	Added explanation of USEPA adding Standard Methods, 22nd ed., Method 7500-Cs B as an approved alternative method for radioactive strontium 89 & 90.
611.720(a)(9) Board note	Appendix A to 141, subpart C, table for 141.25(a)	Added explanation of USEPA adding Standard Methods, 22nd ed., Method 7500- ³ H B as an approved alternative method for tritium.
611.720(a)(10) Board note	Appendix A to 141, subpart C, table for 141.25(a)	Added explanation of USEPA adding Standard Methods, 22nd ed., Methods 7120, 7500-Cs B, and 7500-I B as approved alternative methods for gamma emitters.
611.802(a)(1)	141.402(a)(1)	Changed “paragraphs (a)(1)(i) and either (a)(1)(ii) or (a)(1)(iii)” to “either subsections (a)(1)(A) and (a)(1)(B) or (a)(1)(A) and (a)(1)(C) of this Section.”
611.802(a)(1)(A)	141.402(a)(1)(i)	Removed “and either” and changed the ending semicolon to a period.
611.802(a)(1)(B)	141.402(a)(1)(ii)	Moved “until March 31, 2016” from the end to the beginning, offset by a comma as an introductory clause.
611.802(a)(1)(C)	141.402(a)(1)(iii)	Moved “beginning April 1, 2016” from the end to the beginning, offset by a comma as an introductory clause.
611.802(a)(2)	141.402(a)(2)	Changed “under” to “pursuant to.”
611.802(a)(2)(D)	141.402(a)(2)(iv)	Changed “a ground water system serving” to “a GWS supplier that serves”; changed “the State” to “the Agency, by a SEP issued pursuant to Section 611.110,”; changed “monitoring requirements in” to “monitoring pursuant to.”
611.802(a)(4)(A)	141.402(a)(4)(i)	Changed “under” to “pursuant to.”
611.802(a)(4)(B)(i)	141.402(a)(4)(ii)(A)	Changed “under” to “pursuant to.”

611.802(a)(5)(A)	141.402(a)(5)(i)	Changed “under” to “pursuant to.”
611.802(a)(5)(B)	141.402(a)(5)(ii)	Changed “under” to “pursuant to.”
611.802(c)(2)(B) Board note	Appendix A to 141, subpart C, table for 141.402(c)(2)	Added explanation of USEPA adding Standard Methods, 22nd ed., Methods 9221 F and 9223 B as approved alternative methods for E. coli.
611.802(b)(4)	141.402(b)(4)	Changed “under” to “pursuant to.”
611.883(c)(4)	141.153(c)(4)	Added “of the following” after “applicable.”
611.883(c)(4)(B)	141.153(c)(4)(ii)	Changed “and/or” to “or.”
611.883(d)(4)(G)	141.153(d)(4)(vii)	Retained the existing structure, which required addition of an comma after “march 31, 2016” to offset the introductory phrase.
611.883(d)(4)(H)	141.153(d)(4)(viii)	Retained the existing structure, which required addition of an comma after “march 31, 2016” to offset the introductory phrase.
611.883(d)(4)(I)	141.153(d)(4)(ix)	Changed the ending period to a semicolon and added the ending conjunction “and.”
611.883(d)(4)(J)	141.153(d)(4)(x)	Changed capitalized “The” after the colon to lower-case “the.”
611.883(d)(7)	141.153(d)(7)	Changed “systems” to “suppliers.”
611.883(d)(7)(A)	141.153(d)(7)(i)	Changed “system” to “supplier”; added a comma before “as appropriate” to offset the partnhetical.
611.883(d)(7)(A)(i)	141.153(d)(7)(i)(A)	Placed the required statement in quotation marks.
611.883(d)(7)(A)(ii)	141.153(d)(7)(i)(B)	Changed the upper-case descriptive text in brackets to lower-case text to comport with <i>Illinois Administrative Code</i> codification requirements.

611.883(d)(7)(A)(iii)	141.153(d)(7)(i)(C)	Changed the upper-case descriptive text in brackets to lower-case text to comport with <i>Illinois Administrative Code</i> codification requirements.
611.883(d)(7)(A)(iv)	141.153(d)(7)(i)(D)	Changed “system” to “supplier”; included the two alternative required statements in subsidiary subsections in the body of the subsection to comport with <i>Illinois Administrative Code</i> codification requirements, added quotation marks to the alternative required statements, and separated the two alternative statements with the conjunction “or.”
611.883(d)(7)(B)	141.153(d)(7)(ii)	Changed “system” to “supplier”; changed “the text found in paragraphs (h)(7)(ii)(C)(1) and (2)” to “the appropriate alternative text found in subsection (h)(7)(B)(ii).”
611.883(d)(7)(B)(i)	141.153(d)(7)(ii)(A)	Placed the required statement in quotation marks.
611.883(d)(7)(B)(ii)	141.153(d)(7)(ii)(B)	Changed the upper-case descriptive text in brackets to lower-case text to comport with <i>Illinois Administrative Code</i> codification requirements.
611.883(d)(7)(B)(iii)	141.153(d)(7)(ii)(C)	Changed “system” to “supplier”; included the two alternative required statements in subsidiary subsections in the body of the subsection to comport with <i>Illinois Administrative Code</i> codification requirements, added quotation marks to the alternative required statements, and separated the two alternative statements with the conjunction “or.”
611.883(d)(7)(C)	141.153(d)(7)(iii)	Changed “system” to “supplier” (twice); added a comma before “as required by” to offset the parenthetical.

611.883(d)(7)(C)(i)	141.153(d)(7)(iii)(A)	Placed the required statement in quotation marks.
611.883(d)(7)(C)(ii)	141.153(d)(7)(iii)(B)	Placed the required statement in quotation marks.
611.883(d)(7)(C)(iii)	141.153(d)(7)(iii)(C)	Placed the required statement in quotation marks.
611.883(d)(7)(C)(iv)	141.153(d)(7)(iii)(D)	Placed the required statement in quotation marks.
611.883(d)(7)(D)	141.153(d)(7)(iv)	Changed “system” to “supplier” (twice).
611.902(a)(1)	141.202(a) table, entry (1)	Added “until March 31, 2016” offset by a comma as an introductory clause to the existing text; added “beginning April 1, 2016” offset by a comma before the added text.
611.904(a)(6)	141.204(a) table, entry (6)	Changed “Recordkeeping” to lower-case “recordkeeping.”
611.1051(a)	141.851(a)	Changed “maximum contaminant level” to the defined abbreviation “MCL.”
611.1051(a)	141.851(a)	Changed “public water systems” to the defined abbreviation “PWSs.”
611.1051(d)	141.851(d)	Replaced the unnecessary provision relative to implementation with USEPA as the State with an explanatory statement.
611.1051(e)	141.851(e)	Changed “national primary drinking water regulations” to the defined abbreviation “NPDWRs” (twice).
611.1051 Board note	141.851 generally	Added statement of derivation.
611.1052(a)(1)	141.852(a)(1)	Changed “ml” to “mℓ.”
611.1052(a)(2)	141.852(a)(2)	Changed “systems need” to singular “a supplier needs.”
611.1052(a)(3)	141.852(a)(3)	Changed “systems” to “suppliers.”

611.1052(a)(4)	141.852(a)(4)	Changed “Section 9060A.2” to “section 2 of . . . Method 9060 A”; added “each incorporated by reference in Section 611.102”; replaced the ending with a colon.
611.1052(a)(5)	141.852(a)(5) and Appendix A to 141, subpart C, table for 141.852(a)(5)	Changed “systems” to singular “a supplier”; changed “the analytical methods in the following table or one of the methods listed in Appendix A to subpart C of part 141” to “the following analytical methods, each incorporated by reference in Section 611.102”; reformatted the appended table into several subsections.
611.1052(a)(5) Board note	141.852(a)(5) table, note 1	Moved the text into a Board note; changed “the procedures” to “all monitoring and analyses”; changed “the documents listed in paragraph (c) of this section” to “the version of the approved method recited in this subsection (a) and incorporated by reference in Section 611.102”; removed the two sentences about Standard Methods and Standard Methods Online.
611.1052(a)(5)(A)	141.852(a)(5), total coliforms, lactose fermentation methods, and Appendix A to 141, subpart C, table for 141.852(a)(5)	Reformatted the text in the first two columns into a topical sub-heading that ends with a colon; changed the title capitalization of the entries to lower-case except where capitalization is necessary. <i>See B. Garner, The Redbook: A Manual on Legal Style</i> , § 2.2, at 45 (2002).

611.1052(a)(5)(A)(i)	141.852(a)(5), total coliforms, lactose fermentation methods, standard total coliform technique, and Appendix A to 141, subpart C, table for 141.852(a)(5)	Reformatted the text in the third and fourth columns into a method description that ends with a colon, followed by the Method source and title in the format that the Board has standardized in the drinking water regulations; combined the approved alternative method into the entry; changed “Methods 9221 B.1, B.2” to “sections 1 and 2 of . . . Method 9221 B”; omitted the entry for Standard Methods Online, Method 9221 B-99, since this is the same version as Standard Methods, 21st ed., Method 9221 B; changed the title capitalization of the entries to lower-case except where capitalization is necessary. See the entry for 611.1052(a)(5)(A) above.
611.1052(a)(5)(A)(i) Board note	141.852(a)(5) table, note 3	Moved the text into a Board note; changed “system” to “supplier”; added explanation of omission of Standard Methods Online, Method 9221 B-99.
611.1052(a)(5)(A)(ii)	141.852(a)(5), total coliforms, lactose fermentation methods, presence-absence coliform test	Reformatted the text in the third and fourth columns into a method description that ends with a colon, followed by the Method source and title in the format that the Board has standardized in the drinking water regulations; changed “Methods 9221 D.1, D.2” to “sections 1 and 2 of . . . Method 9221 D”; omitted the entry for Standard Methods Online, Method 9221 D-99, since this is the same version as Standard Methods, 21st ed., Method 9221 D; changed the title capitalization of the entries to lower-case except where capitalization is necessary. See the entry for 611.1052(a)(5)(A) above.

611.1052(a)(5)(A)(ii) Board note	141.852(a)(5) table, note 7	Moved the text into a Board note; changed “9221” to “Method 9221 C,” which is the only enumerative segment of Method 9221; added explanation of omission of Standard Methods Online, Method 9221 D-99.
611.1052(a)(5)(B)	141.852(a)(5) table, total coliforms, membrane filtration methods	Reformatted the text in the first two columns into a topical sub-heading that ends with a colon; changed the title capitalization of the entries to lower-case except where capitalization is necessary. See the entry for 611.1052(a)(5)(A) above.
611.1052(a)(5)(B)(i)	141.852(a)(5) table, total coliforms, membrane filtration methods, standard total coliform membrane filter procedure	Reformatted the text in the third and fourth columns into a method description that ends with a colon, followed by the Method source and title in the format that the Board has standardized in the drinking water regulations; omitted the entry for Standard Methods Online, Methods 9222 B-97 and C-97, since this is the same version as Standard Methods, 21st ed., Methods 9222 B and C; changed the title capitalization of the entries to lower-case except where capitalization is necessary. See the entry for 611.1052(a)(5)(A) above.
611.1052(a)(5)(B)(i) Board note	141.852(a)(5) table, generally	Added explanation of omission of Standard Methods Online, Methods 9222 B-97 and C-97.

611.1052(a)(5)(B)(ii)	141.852(a)(5) table, membrane filtration methods, membrane filtration using MI medium	Reformatted the text in the third and fourth columns into a method description that ends with a colon, followed by the Board-standardized Method title in the format that is used in the drinking water regulations; changed “EPA Method 1613” to “USEPA Method 1613”; changed the title capitalization of the entries to lower-case except where capitalization is necessary. See the entry for 611.1052(a)(5)(A) above.
611.1052(a)(5)(B)(iii)	141.852(a)(5) table, membrane filtration methods, m-ColiBlue24 Test	Reformatted the text in the third column into a title in the format that the Board has standardized in the drinking water regulations.
611.1052(a)(5)(B)(iii) Board note	141.852(a)(5) table, note 4	Moved the text into a Board note.
611.1052(a)(5)(B)(iv)	141.852(a)(5) table, membrane filtration methods, Chromocult	Reformatted the text in the third column into a title in the format that the Board has standardized in the drinking water regulations.
611.1052(a)(5)(B)(iv) Board note	141.852(a)(5) table, note 4	Moved the text into a Board note.
611.1052(a)(5)(C)	141.852(a)(5) table, total coliforms, enzyme substrate methods, and Appendix A to 141, subpart C, table for 141.852(a)(5)	Reformatted the text in the first two columns into a topical sub-heading that ends with a colon; changed the title capitalization of the entries to lower-case except where capitalization is necessary. See the entry for 611.1052(a)(5)(A) above.
611.1052(a)(5)(C)(i)	141.852(a)(5) table, total coliforms, enzyme substrate methods, Colilert, and Appendix A to 141, subpart C, table for 141.852(a)(5)	Reformatted the text in the third and fourth columns into a method description that ends with a colon, followed by the Method source and title in the format that the Board has standardized in the drinking water regulations; combined the approved alternative method into the entry.

611.1052(a)(5)(C)(i) Board note	141.852(a)(5) table, note 5	Moved the text into a Board note.
611.1052(a)(5)(C)(ii)	141.852(a)(5) table, total coliforms, enzyme substrate methods, Colisure, and Appendix A to 141, subpart C, table for 141.852(a)(5)	Reformatted the text in the third and fourth column into a method description that ends with a colon, followed by the Method source and title in the format that the Board has standardized in the drinking water regulations; combined the approved alternative method into the entry; omitted the entry for Standard Methods Online, Method 9223 B-97, since this is the same version as Standard Methods, 21st ed., Method 9223 B.
611.1052(a)(5)(C)(ii) Board note	141.852(a)(5) table, notes 5 and 6	Moved the texts into a Board note; added explanation of omission of Standard Methods Online, Method 9223 B-97.
611.1052(a)(5)(C)(iii)	141.852(a)(5) table, enzyme substrate methods, E*Colite Test	Reformatted the text in the third column into a title in the format that the Board has standardized in the drinking water regulations.
611.1052(a)(5)(C)(iv)	141.852(a)(5) table, enzyme substrate methods, Readycult Test	Reformatted the text in the third column into a title in the format that the Board has standardized in the drinking water regulations.
611.1052(a)(5)(C)(v)	141.852(a)(5) table, enzyme substrate methods, modified Colitag Test	Reformatted the text in the third column into a title in the format that the Board has standardized in the drinking water regulations; changed “®” to “™” to agree with the marking on the method itself; changed the title capitalization of the entries to lower-case except where capitalization is necessary. See the entry for 611.1052(a)(5)(A) above.

611.1052(a)(5)(D)	141.852(a)(5) table, E. coli, <i>Escherichia coli</i> procedure (following lactose fermentation methods), EC-MUG medium, and Appendix A to 141, subpart C, table for 141.852(a)(5)	Reformatted the text in the four columns into a topical sub-heading that ends with a colon, followed by identification of the methods; combined the approved alternative method into the entry; changed italicized “ <i>Escherichia coli</i> ” to the defined abbreviation “E. coli” to comport with <i>Illinois Administrative Code</i> codification requirements that prohibit italics; added a comma after “E. coli”; omitted the second appearance of “ <i>Escherichia coli</i> ”; changed “Method 9221 F.1” to “section 1 of . . . Method 9221 F”; changed the title capitalization of the entries to lower-case except where capitalization is necessary. See the entry for 611.1052(a)(5)(A) above.
611.1052(a)(5)(E)	141.852(a)(5) table, E. coli, <i>Escherichia coli</i> partition method	Reformatted the text in the first two columns into a topical sub-heading that ends with a colon; changed italicized “ <i>Escherichia coli</i> ” to the defined abbreviation “E. coli” to comport with <i>Illinois Administrative Code</i> codification requirements that prohibit italics; changed the title capitalization of the entry to lower-case except where capitalization is necessary. See the entry for 611.1052(a)(5)(A) above.
611.1052(a)(5)(E)(i)	141.852(a)(5) table, E. coli, <i>Escherichia coli</i> partition method, EC broth with MUG (EC-MUG)	Reformatted the text in the third and fourth columns into a method description that ends with a colon, followed by identification of the methods; changed “Method 9222 G.1c(2)” to “section 1.c(2) of . . . Method 9222 G.”

611.1052(a)(5)(E)(i) Board note	141.852(a)(5) table, note 8	Moved the text into a Board note; changed capitalized “Potassium” to lower-case “potassium”; replaced the offsetting commas with parentheses for “(KH ₂ PO ₄)”; added a space to correct “1.5g” to “1.5 g”; changed “4-methylumbelliferyl-Beta-D-glucuronide” to “4-methylumbelliferyl-β-D-glucuronide.”
611.1052(a)(5)(E)(ii)	141.852(a)(5) table, E. coli, <i>Escherichia coli</i> partition method, NA-MUG medium	Reformatted the text in the third and fourth columns into a method description that ends with a colon, followed by identification of the methods; changed “Method 9222 G.1c(1)” to “section 1.c(1) of . . . Method 9222 G.”
611.1052(a)(5)(F)	141.852(a)(5) table, E. coli, membrane filtration methods	Reformatted the text in the first two columns into a topical sub-heading that ends with a colon; changed italicized “ <i>Escherichia coli</i> ” to the defined abbreviation “E. coli” to comport with <i>Illinois Administrative Code</i> codification requirements that prohibit italics; changed the title capitalization of the entry to lower-case except where capitalization is necessary. See the entry for 611.1052(a)(5)(A) above.
611.1052(a)(5)(F)(i)	141.852(a)(5) table, E. coli, membrane filtration methods, membrane filtration using MI medium	Reformatted the text in the third and fourth columns into a method description that ends with a colon, followed by identification of the method; changed “EPA Method 1604” to “USEPA Method 1604.”
611.1052(a)(5)(F)(ii)	141.852(a)(5) table, E. coli, membrane filtration methods, m-ColiBlue24 test	Reformatted the text in the third column into a title in the format that the Board has standardized in the drinking water regulations; changed the title capitalization of the entries to lower-case except where capitalization is necessary. See the entry for 611.1052(a)(5)(A) above.

611.1052(a)(5)(F)(ii) Board note	141.852(a)(5) table, note 4	Moved the text into a Board note.
611.1052(a)(5)(F)(iii)	141.852(a)(5) table, E. coli, membrane filtration methods, Chromocult	Reformatted the text in the third column into a title in the format that the Board has standardized in the drinking water regulations.
611.1052(a)(5)(F)(iii) Board note	141.852(a)(5) table, note 4	Moved the text into a Board note.
611.1052(a)(5)(G)	141.852(a)(5) table, E. coli, enzyme substrate methods	Reformatted the text in the first two columns into a topical sub-heading that ends with a colon; changed italicized “ <i>Escherichia coli</i> ” to the defined abbreviation “E. coli” to comport with <i>Illinois Administrative Code</i> codification requirements that prohibit italics; changed the title capitalization of the entry to lower-case except where capitalization is necessary. See the entry for 611.1052(a)(5)(A) above.
611.1052(a)(5)(G)(i)	141.852(a)(5) table, E. coli, enzyme substrate methods, Colilert, and Appendix A to 141, subpart C, table for 141.852(a)(5)	Reformatted the text in the third and fourth columns into a method description that ends with a colon, followed by identification of the method; combined the approved alternative method into the entry; omitted the entry for Standard Methods Online, Method 9223 B-97, since this is the same version as Standard Methods, 21st ed., Method 9223 B.
611.1052(a)(5)(G)(i) Board note	141.852(a)(5) table, note 5	Moved the texts into a Board note; added explanation of omission of Standard Methods Online, Method 9223 B-97; omitted note 6, which pertains to Colisure.

611.1052(a)(5)(G)(ii)	141.852(a)(5) table, E. coli, enzyme substrate methods, Colisure, and Appendix A to 141, subpart C, table for 141.852(a)(5)	Reformatted the text in the third and fourth columns into a method description that ends with a colon, followed by identification of the method; combined the approved alternative method into the entry; omitted the entry for Standard Methods Online, Method 9223 B-97, since this is the same version as Standard Methods, 21st ed., Method 9223 B.
611.1052(a)(5)(G)(ii) Board note	141.852(a)(5) table, notes 5 and 6	Moved the texts into a Board note; added explanation of omission of Standard Methods Online, Method 9223 B-97.
611.1052(a)(5)(G)(iii)	141.852(a)(5) table, enzyme substrate methods, E*Colite Test	Reformatted the text in the third column into a title in the format that the Board has standardized in the drinking water regulations; changed the title capitalization of the entries to lower-case except where capitalization is necessary. See the entry for 611.1052(a)(5)(A) above.
611.1052(a)(5)(G)(iv)	141.852(a)(5) table, enzyme substrate methods, Readycult 2007 test	Reformatted the text in the third column into a title in the format that the Board has standardized in the drinking water regulations; changed the title capitalization of the entries to lower-case except where capitalization is necessary. See the entry for 611.1052(a)(5)(A) above.
611.1052(a)(5)(G)(v)	141.852(a)(5) table, enzyme substrate methods, Modified Colitag test	Reformatted the text in the third column into a title in the format that the Board has standardized in the drinking water regulations; changed “®” to “™” to agree with the marking on the method itself; changed the title capitalization of the entries to lower-case except where capitalization is necessary. See the entry for 611.1052(a)(5)(A) above.

611.1052(a)(5) Board note	Appendix A to 141, subpart C, table for 141.852(a)(5)	Added explanation of USEPA adding 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 as approved alternative methods for <i>E. coli</i> .
611.1052(b)	141.852(b)	Changed “systems . . . certified by EPA or a primacy State” to singular “a supplier . . . that is certified by USEPA, the Agency, or a sister primacy state”; changed “required under” to “required by”; changed “system” to “supplier”; changed “contaminant(s)” to “contaminants”; changed “used” to “that is used.”
611.1052(c)	141.852(c)	Replaced the unnecessary incorporations by reference (which appear in Section 611.102 in the Illinois rules) with an explanatory statement.
611.1052 Board note	141.851 generally	Added statement of derivation.
611.1053 heading	141.853 heading	Changed “public water systems” to the defined abbreviation “PWSs.”
611.1053(a)(1)	141.853(a)(1)	Changed “systems” to singular “a supplier”; changed “State” to “Agency”; changed “systems” to singular “the supplier”; corrected “premise” to “premises”; added the indefinite article “a” before “dedicated sampling station”; changed “other designated . . . location” to “another designated . . . location.”
611.1053(a)(2)	141.853(a)(2)	Changed “systems” to singular “a supplier.”
611.1053(a)(3)	141.853(a)(3)	Changed “systems” to singular “a supplier.”
611.1053(a)(4)	141.853(a)(4)	Changed “system” to “supplier” (twice).

611.1053(a)(5)	141.853(a)(5)	Changed “systems” to singular “a supplier” (twice); changed “system” to “supplier” (twice); changed “the State may allow” to “the Agency may grant a SEP pursuant to Section 611.110 that allows”; changed “under” to “pursuant to”; changed “sample(s)” to “samples.”
611.1053(a)(5)(A)	141.853(a)(5)(i)	Changed “systems” to singular “a supplier”; changed “the State” to “the Agency”; changed “system” to “supplier” (three times); changed “the State may modify” to “The Agency may, by a SEP issued pursuant to Section 611.110, modify . . . as the Agency determines is necessary.”
611.1053(a)(5)(B)	141.853(a)(5)(ii)	Changed “ground water systems serving” to singular defined abbreviation “a GWS supplier that serves”; changed “State” to “Agency”; changed “ground water system with a single well required to conduct” to singular defined abbreviation “GWS supplier that has a single well and which is required to conduct”; changed “may, with written State approval” to “may, as allowed by a SEP issued pursuant to Section 611.110”; changed “under” to “pursuant to”; added a period after “Section 611.802” and changed “if the system demonstrates” to “The system supplier must justify an Agency determination”; changed “if approved by the State” to “if approved by a SEP issued pursuant to Section 611.110”; changed “system” to “supplier.”
611.1053(a)(5)(B)(i)	141.853(a)(5)(ii)(A)	Changed “system” to “supplier” (three times).
611.1053(a)(5)(B)(ii)	141.853(a)(5)(ii)(B)	Changed “system” to “supplier” (twice).
611.1053(a)(5)(B)(iii)	141.853(a)(5)(ii)(C)	Changed “system” to “supplier.”

611.1053(a)(6)	141.853(a)(6)	Changed “States may review, revise, and approve” to “the Agency may, by a SEP issued pursuant to Section 611.110,”; changed “systems” to singular “a supplier”; changed “under” to “pursuant to”; changed “system” to “supplier”; changed “demonstrate” to “justify an Agency determination”; changed “State” to “Agency.”
611.1053(c)(1)	141.853(c)(1)	Changed “the State may invalidate” to “Agency may, by a SEP issued pursuant to Section 611.110, invalidate.”
611.1053(c)(1)(B)	141.853(c)(1)(ii)	Changed “State” to “Agency” (three times); changed “sample(s)” to “samples.”
611.1053(c)(1)(C)	141.853(c)(1)(iii)	Changed “State” to “Agency” (three times); added “by a SEP issued pursuant to Section 611.110”; changed “supervisor of the State official who recommended the decision” to “Agency”; changed “EPA” to “USEPA”; changed “system” to “supplier.”
611.1053(c)(2)	141.853(c)(2)	Changed first-letter capitalized “Multiple Tube Fermentation Technique,” “Presence-Absence (P-A) Coliform Test,” and “Membrane Filter Technique” to lower-case “multiple tube fermentation technique,” “presence-absence (P-A) coliform test,” and “membrane filter technique”; changed “system” to “supplier” (twice); added “by a SEP issued pursuant to Section 611.110”; changed “the State may implement criteria” to “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.”
611.1053 Board note	141.851 generally	Added statement of derivation.

611.1054 heading	141.854 heading	Changed “non-community water systems” to the defined abbreviation “non-CWSs”; changed “serving” to “that serve”; changed “ground water” to “groundwater.”
611.1054(a)(1)	141.854(a)(1)	Changed “the provisions of this section apply” to “this Section applies”; changed “non-community water systems using . . . and serving” to the defined abbreviation “non-CWS suppliers that use . . . and which serve.”
611.1054(a)(2)	141.854(a)(2)	Changed “under” to “pursuant to”; changed “systems” to singular “a supplier.”
611.1054(a)(3)	141.854(a)(3)	Changed “systems” to singular “a supplier”; changed “systems” to singular “the supplier.”
611.1054(a)(4)	141.854(a)(4)	Changed “non-community water systems” to the defined abbreviation “non-CWS suppliers”; changed “State” to “Agency” (twice); changed “system” to “supplier.”
611.1054(b)	141.854(b)	Changed “systems” to singular “a supplier”; changed “system” to “supplier”; changed “seasonal systems” to singular “a seasonal system supplier” (twice).
611.1054(c)(1)	141.854(c)(1)	Changed “systems” to singular “a supplier”; changed “seasonal systems” to singular “a seasonal system supplier”; changed “State” to “Agency.”

611.1054(c)(2)	141.854(c)(2)	Changed “State” to “Agency” (four times); changed “the system” to “the supplier’s system”; changed “system’s” to “supplier’s”; changed “it” to “the Agency”; changed “system” to “supplier”; changed “systems” to singular “a supplier”; changed “seasonal systems” to singular “a seasonal system supplier”; changed “period(s)” to “periods”; changed “seasonal system” to “seasonal system supplier.”
611.1054(d)	141.854(d)	Changed “systems” to singular “a supplier”; changed “seasonal systems” to singular “a seasonal system supplier”; changed “State” to “Agency.”
611.1054(e)	141.854(e)	Changed “the State may” to “the Agency may, by a SEP issued pursuant to Section 611.110,”; changed “ground water system system” to the defined abbreviation “a GWS supplier”; changed “system” to “supplier” (twice).
611.1054(e)(1)	141.854(e)(1)	Changed “system’s” to “supplier’s.”
611.1054(e)(2)	141.854(e)(2)	Changed “system’s” to “supplier’s”; changed “approved construction standards” to “Agency-approved construction standards.”
611.1054(e)(3)	141.854(e)(3)	Changed “State” to “Agency” (twice); added a comma before “and the supplier” to offset the independent clause; changed “system” to “supplier” (twice).
611.1054(f)	141.854(f)	Changed “systems” to “suppliers”; changed “system” to “supplier” (four times); changed “State” to “Agency.”
611.1054(f)(1)	141.854(f)(1)	Changed “system” to “supplier’s system.”
611.1054(f)(2)	141.854(f)(2)	Changed “system” to “supplier’s system.”

611.1054(f)(3)	141.854(f)(3)	Changed “system” to “supplier’s system.”
611.1054(f)(4)	141.854(f)(4)	Changed “system” to “supplier’s system.”
611.1054(f)(5)	141.854(f)(5)	Changed “system” to “supplier’s system.”
611.1054(g)	141.854(g)	Changed “State may” to “Agency may, by a SEP issued pursuant to Section 611.110,;” changed “system” to “supplier”; changed “system’s” to “supplier’s.”
611.1054(g)(1)	141.854(g)(1)	Changed “system” to “supplier”; added “of its system” after “site visit”; changed “State” to “Agency”; added “the supplier’s system must” before “be free”; added “the supplier’s system must” before “have a protected water source.”
611.1054(g)(2)	141.854(g)(2)	Changed “system” to “supplier’s system.”
611.1054(h)	141.854(h)	Changed “systems” to singular “a supplier”; changed “State may reduce” to “Agency may, by a SEP issued pursuant to Section 611.110, reduce”; changed “system” to “supplier”; changed “system” to “supplier’s system”; changed “plus” to “and.”
611.1054(h)(1)	141.854(h)(1)	Changed “State” to “Agency” (three times); changed “system” to “supplier.”
611.1054(h)(2)	141.854(h)(2)	Changed “system” to “supplier”; added “of the following” before “additional enhancements” and removed “in paragraphs (h)(2)(i) through (h)(2)(v) of this section.”
611.1054(h)(2)(A)	141.854(h)(2)(i)	Changed “State” to “Agency.”
611.1054(h)(2)(B)	141.854(h)(2)(ii)	Changed “State” to “Agency” (twice).

611.1054(h)(2)(C)	141.854(h)(2)(iii)	Changed “State” to “Agency.”
611.1054(h)(2)(D)	141.854(h)(2)(iv)	Changed numeric “4-log” to written “four-log.”
611.1054(i)(1)	141.854(i)(1)	Changed “seasonal systems” to singular “a seasonal system supplier”; changed “a State-approved” to “an Agency-approved.”
611.1054(i)(2)	141.854(i)(2)	Changed “seasonal system” to “seasonal system supplier.”
611.1054(i)(2)(A)	141.854(i)(2)(i)	Changed “seasonal system” to “seasonal system supplier” (twice).
611.1054(i)(2)(B)	141.854(i)(2)(ii)	Changed “system” to “supplier.”
611.1054(i)(2)(C)	141.854(i)(2)(iii)	Changed “system” to “supplier.”
611.1054(i)(3)	141.854(i)(3)	Changed “State may exempt” to “Agency may, by a SEP issued pursuant to Section 611.110, exempt”; changed “seasonal system” to “seasonal system supplier”; changed “seasonal system’s” to “seasonal system supplier’s”; changed “systems that monitor” to singular “a supplier that monitors.”
611.1054(j)	141.854(j)	Changed “systems collecting” to singular “a supplier that collects”; changed “systems” to singular “the supplier” (three times); changed “State may waive” to “Agency may, by a SEP issued pursuant to Section 611.110, waive”; changed “system” to “supplier”; changed “system” to “supplier’s system”; changed “plus” to “and.”
611.1054(j)(1)	141.854(j)(1)	Changed “State may waive” to “Agency may, by a SEP issued pursuant to Section 611.110, waive”; changed “system” to “supplier” (twice); changed “State” to “Agency” (five times); changed “system” to “a supplier’s system”; changed “and/or” to “or.”

611.1054(j)(2)	141.854(j)(2)	Changed “State may waive” to “Agency may, by a SEP issued pursuant to Section 611.110, waive”; changed “system” to “supplier” (three times); changed “State” to “Agency” (three times); changed “system” to “supplier’s system”; changed “and/or” to “or.”
611.1054(j)(3)	141.854(j)(3)	Changed “State” to “Agency” (twice); changed “system” to “a supplier’s system”; changed “system” to “supplier” (twice); changed “State may waive” to “Agency may, by a SEP issued pursuant to Section 611.110, waive.”
611.1054 Board note	141.851 generally	Added statement of derivation.
611.1055 heading	141.855 heading	Changed “community water systems” to the defined abbreviation “CWSs”; changed “serving” to “that serve”; changed “ground water” to “groundwater.”
611.1055(a)(1)	141.855(a)(1)	Changed “the provisions of this section apply” to “this Section applies”; changed “community water systems using . . . and serving” to the defined abbreviation “CWS suppliers that use . . . and which serve.”
611.1055(a)(2)	141.855(a)(2)	Changed “systems” to singular “the supplier.”
611.1055(a)(3)	141.855(a)(3)	Changed “systems” to singular “the supplier” (twice).
611.1055(b)	141.855(b)	Changed “sample/month” to “sample per month.”
611.1055(c)(1)	141.855(c)(1)	Changed “all systems” to singular “a supplier”; changed “otherwise directed by the State” to “otherwise directed by the Agency, by a SEP issued pursuant to Section 611.110.”

611.1055(c)(2)	141.855(c)(2)	Changed “State” to “Agency” (twice); changed “system” to “a supplier’s system”; changed “State may waive” to “Agency may, by a SEP issued pursuant to Section 611.110, waive”; changed “system’s” to “supplier’s”; changed “system” to “supplier” (twice); added a period after “as necessary” and replaced “or it” with “Alternatively, the Agency” before “may” to divide the run-on sentence; changed “systems” to singular “a supplier.”
611.1054(d)(1)	141.854(d)(1)	Changed “State may reduce” to “Agency may, by a SEP issued pursuant to Section 611.110, reduce”; changed “system” to “supplier” (twice); changed “State” to “Agency.”
611.1054(d)(1)(A)	141.854(d)(1)(i)	Changed “system” to “supplier.”
611.1054(d)(1)(B)	141.854(d)(1)(ii)	Changed “system” to “supplier”; added a comma after “protected water source” to offset the final element of a series; changed “approved construction standards” to “Agency-approved construction standards.”
611.1054(d)(1)(C)	141.854(d)(1)(iii)	Changed “system” to “supplier.”
611.1054(d)(1)(C)(i)	141.854(d)(1)(iii)(A)	Changed “State” to “Agency” (twice)
611.1054(d)(1)(C)(ii)	141.854(d)(1)(iii)(B)	Changed “State” to “Agency.”
611.1054(d)(1)(C)(iii)	141.854(d)(1)(iii)(C)	Changed “State” to “Agency.”
611.1054(d)(1)(C)(v)	141.854(d)(1)(iii)(E)	Changed “State” to “Agency.”
611.1054(e)	141.854(e)	Changed “systems” to singular “a supplier”; changed “system” to “supplier.”
611.1054(e)(1)	141.854(e)(1)	Changed “system” to “supplier.”
611.1054(e)(2)	141.854(e)(2)	Changed “system” to “supplier.”
611.1054(e)(3)	141.854(e)(3)	Changed “system” to “supplier.”

611.1054(e)(4)	141.854(e)(4)	Changed “system” to “supplier.”
611.1054(f)	141.854(f)	Changed “systems” to singular “a supplier” (three times); changed “State may waive” to “Agency may, by a SEP issued pursuant to Section 611.110, waive.”
611.1054(f)(1)	141.854(f)(1)	Changed “State may waive” to “Agency may, by a SEP issued pursuant to Section 611.110, waive”; changed “system” to “supplier’s system” (twice); changed “State” to “Agency” (four times); changed “and/or” to “or”; changed “system” to “supplier.”
611.1054(f)(2)	141.854(f)(2)	Changed “State may waive” to “Agency may, by a SEP issued pursuant to Section 611.110, waive”; changed “system” to “supplier’s system” (twice); changed “State” to “Agency” (three times); changed “system” to “supplier”; changed “EPA” to “USEPA”; changed “and/or” to “or.”
611.1054(f)(3)	141.854(f)(3)	Changed “State” to “Agency” (twice); changed “system” to “supplier’s system”; changed “system” to “supplier” (twice); changed “State may waive” to “Agency may, by a SEP issued pursuant to Section 611.110, waive”; changed “EPA” to “USEPA.”
611.1055 Board note	141.851 generally	Added statement of derivation.
611.1056 heading	141.856 heading	Changed “subpart H public water systems” to the defined term “Subpart B systems”; changed “serving” to “that serve.”
611.1056(a)(1)	141.856(a)(1)	Changed “subpart H systems serving” to singular “a Subpart B system supplier that serves.”
611.1056(a)(2)	141.856(a)(2)	Changed “systems” to singular “a supplier.”

611.1056(a)(3)	141.856(a)(3)	Changed “systems” to singular “a supplier”; changed “systems” to singular “the supplier.”
611.1056(a)(4)	141.856(a)(4)	Changed “seasonal systems” to “seasonal system suppliers.”
611.1056(a)(4)(A)	141.856(a)(4)(i)	Changed “seasonal systems” to “seasonal system supplier”; changed “a State-approved” to “an Agency-approved.”
611.1056(a)(4)(B)	141.856(a)(4)(ii)	Changed “State may waive” to “Agency may, by a SEP issued pursuant to Section 611.110, waive”; changed “seasonal system” to “seasonal system supplier”; changed “seasonal systems” to “seasonal system suppliers”; added “supplier’s” before “entire distribution system”; added “supplier’s” before “system.”
611.1056(b)	141.856(b)	Changed “subpart H systems” to singular “a Subpart B system supplier”; changed “consecutive systems” to singular “a consecutive system supplier”; changed “systems” to singular “a supplier.”
611.1056(c)	141.856(c)	Changed “subpart H systems” to “Subpart B system suppliers”; changed “subpart H system” to “Subpart B system supplier”; added “that” before the turbidity level . . . exceeds” for a restrictive relative clause; changed “system” to “supplier” (twice); changed “State” to “Agency”; changed “system’s” to “supplier’s”; added a comma after collection and “the Agency” before “identifies” to create an independent clause; changed “this coliform monitoring” to “the coliform monitoring required by this subsection (c).”
611.1056 Board note	141.851 generally	Added statement of derivation.

611 table of contents, 611.1057 heading	141 table of contents, 141.857 heading	Changed “public water systems serving” to “PWSs that serve.”
611.1057(a)(2)	141.857(a)(2)	Changed “systems” to singular “the supplier.”
611.1057(a)(3)	141.857(a)(3)	Changed “systems” to singular “a supplier”; changed “systems” to singular “the supplier.”
611.1057(a)(4)(A)	141.857(a)(4)(i)	Changed “seasonal systems” to “seasonal system supplier”; changed “a State-approved” to “an Agency-approved.”
611.1057(a)(4)(B)	141.857(a)(4)(ii)	Changed “State may exempt” to “Agency may, by a SEP issued pursuant to Section 611.110, exempt”; changed “seasonal system” to “seasonal system supplier”; changed “seasonal systems” to “seasonal system suppliers”; added “supplier’s” before “entire distribution system”; added “supplier’s” before “system.”
611.1057(b)	141.857(b)	Added “supplier’s” before “system.”
611.1057(c)	141.857(c)	Changed “subpart H systems” to “Subpart B system suppliers”; changed “subpart H system” to “Subpart B system supplier”; added “that” before the turbidity level . . . exceeds” for a restrictive relative clause; changed “system” to “supplier” (twice); changed “State” to “Agency”; changed “system’s” to “supplier’s”; added a comma after collection and “the Agency” before “identifies” to create an independent clause; changed “this coliform monitoring” to “the coliform monitoring required by this subsection (c).”

611.1057(d)	141.857(d)	Changed “systems” to singular “a supplier”; changed “non-community systems using . . . serving” to “a non-CWS supplier that uses . . . and which serves”; changed “systems” to singular “supplier”; changed “when 1,000 or fewer people are served” to active-voice “when the supplier serves 1,000 or fewer people”; changed “State may reduce” to “Agency may, by a SEP issued pursuant to Section 611.110, reduce”; changed “system” to “supplier.”
611.1057 Board note	141.851 generally	Added statement of derivation.
611.1058(a)(1)	141.858(a)(1)	Changed “system” to “supplier” (five times); changed “State may extend” to “Agency may, by a SEP issued pursuant to Section 611.110, extend”; changed “State” to “Agency” (three times).
611.1058(a)(2)	141.858(a)(2)	Changed “system” to “supplier” (twice); changed “State may allow” to “Agency may, by a SEP issued pursuant to Section 611.110, allow”; changed “sample(s)” to “samples”; changed “ml” to “mℓ.”
611.1058(a)(3)	141.858(a)(3)	Changed “system” to “supplier” (four times); changed “State” to “Agency” (four times); changed “systems are” to singular “the supplier is.”
611.1058(a)(4)	141.858(a)(4)	Changed “system” to “supplier”; changed “it” to “the supplier”; changed “sample(s)” to “samples” (twice).
611.1058(a)(5)	141.858(a)(5)	Changed “State” to “Agency.”
611.1058(b)(1)	141.858(b)(1)	Changed “system” to “supplier” (five times); changed “State” to “Agency” (four times).
611.1058(b)(2)	141.858(b)(2)	Changed “system” to “supplier” (twice); changed “State” to “Agency” (three times).

611.1058 Board note	141.851 generally	Added statement of derivation.
611.1059(a)	141.859(a)	Changed “systems” to singular “a supplier.”
611.1059(a)(1)(A)	141.859(a)(1)(i)	Changed “systems” to singular “a supplier” changed “system” to “supplier.”
611.1059(a)(1)(B)	141.859(a)(1)(ii)	Changed “systems” to singular “a supplier” changed “system” to “supplier.”
611.1059(a)(1)(C)	141.859(a)(1)(iii)	Changed “system” to “supplier.”
611.1059(a)(2)(B)	141.859(a)(2)(ii)	Changed “State has determined” to “Agency, by a SEP issued pursuant to Section 611.110, has determined”; changed “system” to “supplier.”
611.1059(b)(1)	141.859(b)(1)	Changed “systems” to singular “a supplier”; changed “State” to “Agency.”
611.1059(b)(2)	141.859(b)(2)	Changed “systems” to singular “the supplier”; changed “system” to “supplier”; changed “State” to “Agency.”
611.1059(b)(3)	141.859(b)(3)	Changed “system” to “supplier” (twice); changed “State” to “Agency.”
611.1059(b)(3)(A)	141.859(b)(3)(i)	Changed “system” to “supplier” (four times); changed “State” to “Agency.”
611.1059(b)(3)(B)	141.859(b)(3)(ii)	Changed “system” to “supplier” (three times); changed “State” to “Agency” (twice).
611.1059(b)(3)(C)	141.859(b)(3)(iii)	Changed “State” to “Agency” (three times); “system” to “supplier” (twice).
611.1059(b)(4)	141.859(b)(4)	Changed “system” to “supplier” (three times); changed “State” to “Agency”; changed “required by the State” to “required by the Agency, by a SEP issued pursuant to Section 611.110” offset by a comma.

611.1059(b)(4)(A)	141.859(b)(4)(i)	Changed “system” to “supplier” (three times); changed “State” to “Agency” (three times).
611.1059(b)(4)(B)	141.859(b)(4)(ii)	Changed “system” to “supplier” (twice); changed “State” to “Agency”; changed “directed by the State” to “directed by the Agency, by a SEP issued pursuant to Section 611.110.”
611.1059(b)(4)(C)	141.859(b)(4)(iii)	Changed “State” to “Agency” (four times); changed “system” to “supplier.”
611.1059(b)(4)(D)	141.859(b)(4)(iv)	Changed “system” to “supplier” (twice); changed “State” to “Agency” (twice).
611.1059(c)	141.859(c)	Changed “systems” to singular “a supplier” changed “system” to “supplier” (three times); changed “action(s)” to “actions”; changed “approved by the State” to “approved by the Agency, by a SEP issued pursuant to Section 611.110”; changed “State” to “Agency.”
611.1059(d)	141.859(d)	Changed “system” to “supplier” (twice); changed “State” to “Agency” (twice).
611.1059 Board note	141.851 generally	Added statement of derivation.
611.1060(a)	611.860(a)	Changed “system” to “supplier.”
611.1060(a)(1)	611.860(a)(1)	Changed “system” to “supplier.”
611.1060(a)(2)	611.860(a)(2)	Changed “system” to “supplier.”
611.1060(a)(3)	611.860(a)(3)	Changed “system” to “supplier.”
611.1060(a)(4)	611.860(a)(4)	Changed “system” to “supplier.”
611.1060(b)(1)	611.860(b)(1)	Changed “system” to “supplier.”
611.1060(b)(2)	611.860(b)(2)	Changed “system” to “supplier”; changed “a State-approved” to “an Agency-approved.”
611.1060(d)(1)	611.860(d)(1)	Changed “system” to “supplier.”

611.1060(d)(2)	611.860(d)(2)	Changed “State” to “Agency.”
611.1060(b)(2)	611.860(b)(2)	Changed “State-approved” to “Agency-approved.”
611.1060 Board note	141.851 generally	Added statement of derivation.
611.1061(a)(1)(A)	141.861(a)(1)(i)	Changed “system” to “supplier” (three times); changed “State” to “Agency” (four times); changed “and notify” to “and the supplier notifies” for an independent clause.
611.1061(a)(1)(B)	141.861(a)(1)(ii)	Changed “system” to “supplier” (four times); changed “State” to “Agency” (four times).
611.1061(a)(2)	141.861(a)(2)	Changed “system” to “supplier”; changed “State” to “Agency.”
611.1061(a)(3)	141.861(a)(3)	Changed “system” to “supplier” (twice); changed “State” to “Agency.”
611.1061(a)(4)	141.861(a)(4)	Changed “system” to “supplier” (twice); changed “State” to “Agency.”
611.1061(a)(5)	141.861(a)(5)	Changed “system” to “supplier”; changed “State” to “Agency.”
611.1061(b)(1)	141.861(b)(1)	Changed “system” to “supplier” (twice); changed “State” to “Agency.”
611.1061(b)(2)	141.861(b)(2)	Changed “system” to “supplier”; changed “State” to “Agency.”
611.1061 Board note	141.851 generally	Added statement of derivation.
611.Appendix A, total coliform bacteria (first entry)	141, appendix A to subpart O, total coliform bacteria (first entry)	Retained the existing Illinois format for the tabulated text; placed the endnote material “until March 31, 2016” into the text, offset by a comma.
611.Appendix A, total coliform bacteria (second entry)	141, appendix A to subpart O, total coliform bacteria (second entry)	Reformatted the tabulated text into the existing Illinois format; placed the endnote material “beginning April 1, 2016” into the text, offset by a comma.

611.Appendix A, total E. coli (first entry)	141, appendix A to subpart O, E. coli (first entry)	Retained the existing Illinois format for the tabulated text; placed the endnote material “until March 31, 2016” into the text, offset by a comma.
611.Appendix A, E. coli (second entry)	141, appendix A to subpart O, E. coli (second entry)	Reformatted the tabulated text into the existing Illinois format; placed the endnote material “beginning April 1, 2016” into the text, offset by a comma.
611.Appendix G, ¶ I.A.1a.	141, appendix A to subpart Q, ¶ I.A.1.a	Retained the existing Illinois format for the tabulated text; changed the entry designation “1.a” to “1a.”; placed the endnote material “until March 31, 2016” into the text, offset by a comma.
611.Appendix G, ¶ I.A.1b.	141, appendix A to subpart Q, ¶ I.A.1.b	Reformatted the tabulated text into the existing Illinois format; changed the entry designation “1.b” to “1b.”; placed the endnote material “beginning April 1, 2016” into the text, offset by a comma.
611.Appendix G, ¶ I.A.1c.	141, appendix A to subpart Q, ¶ I.A.1.c	Reformatted the tabulated text into the existing Illinois format; changed the entry designation “1.c” to “1c.”; placed the endnote material “beginning April 1, 2016” into the text, offset by a comma.
611.Appendix G, ¶ I.A.2a.	141, appendix A to subpart Q, ¶ I.A.2.a	Retained the existing Illinois format for the tabulated text; changed the entry designation “1.a” to “1a.”; placed the endnote material “until March 31, 2016” into the text, offset by a comma.
611.Appendix G, ¶ I.A.2b.	141, appendix A to subpart Q, ¶ I.A.2.b	Reformatted the tabulated text into the existing Illinois format; changed the entry designation “1.b” to “1b.”; placed the endnote material “beginning April 1, 2016” into the text, offset by a comma.
611.Appendix G, ¶ I.A.2c.	141, appendix A to subpart Q, ¶ I.A.2.c	Reformatted the tabulated text into the existing Illinois format; changed the entry designation “1.c” to “1c.”; placed the endnote material “beginning April 1, 2016” into the text, offset by a comma.

611.Appendix H, ¶ A.1a.	141, appendix B to subpart Q, ¶ A.1a.	Retained the existing Illinois format for the tabulated text; placed the endnote material “until March 31, 2016” into the text, offset by a comma.
611.Appendix H, ¶ A.1b.	141, appendix B to subpart Q, ¶ A.1b.	Retained the existing Illinois format for the tabulated text; placed the endnote material “until March 31, 2016” into the text, offset by a comma.
611.Appendix H, ¶ A.1e.	141, appendix B to subpart Q, ¶ A.1e.	Reformatted the tabulated text into the existing Illinois format; placed the endnote material “beginning April 1, 2016” into the text, offset by a comma; changed the brackets to parentheses, used lower-case “the system must use the following applicable sentences,” and changed the period to a colon to comport with <i>Illinois Administrative Code</i> codification requirements.
611.Appendix H, ¶ A.1f.	141, appendix B to subpart Q, ¶ A.1f.	Reformatted the tabulated text into the existing Illinois format; placed the endnote material “beginning April 1, 2016” into the text, offset by a comma; changed the brackets to parentheses, used lower-case “the system must use the following applicable sentences,” and changed the period to a colon to comport with <i>Illinois Administrative Code</i> codification requirements.
611.Appendix H, ¶ A.1g.	141, appendix B to subpart Q, ¶ A.1g.	Reformatted the tabulated text into the existing Illinois format; placed the endnote material “beginning April 1, 2016” into the text, offset by a comma; changed the brackets to parentheses, used lower-case “the system must use the following applicable sentences,” and changed the period to a colon to comport with <i>Illinois Administrative Code</i> codification requirements; replaced the text in column 3 with “see footnote 22” and moved the text into endnote 22.

611.Appendix H, ¶ A.1h.	141, appendix B to subpart Q, ¶ A.1h.	Reformatted the tabulated text into the existing Illinois format; placed the endnote material “beginning April 1, 2016” into the text, offset by a comma.
611.Appendix H, note 22	141, appendix B to subpart Q, ¶ A.1h.	Moved the text into the endnote; changed “system’s” to “supplier’s” (twice); changed “system” to “supplier” (twice); added the conjunction “or” before the fourth contingency.

**Table 3:
Board Housekeeping Amendments**

Section	Source	Revision(s)
611.101 “approved source of bottled water” Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.101 “bin classification” Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.101 “CT _{99,9} ” Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.101 40/30 certification” Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.101 “groundwater system” Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.101 “HPC”	Board	Corrected the citation “611.531(c)” to “611.531(a)(2)(C).”
611.101 “hydrogeologic sensitivity assessment” Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.

611.101 “inactivation ratio” Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.101 “initial distribution system evaluation” Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.101 “inorganic contaminants” Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.101 “MFL” Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.101 “mixed system” Board note	Board	Changed “drawn from” to “derived from”; updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.101 “radioactive contaminants” Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.101 “reliably and consistently” Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.101 “sanitary survey” Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.101 “service connection” Board note	Board	Updated the <i>United States Code</i> citation to the latest version available.
611.101 “sanitary deficiency” Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.101 “special irrigation district” Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available; updated the <i>United States Code</i> citation to the latest version available.
611.101 “standard monitoring” Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.

611.101 “SWS” Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.101 “system-specific study plan” Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.101 “very small system waiver” Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.101 “wellhead protection program” Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.101 Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.102(a) “Colisure test”	Board	Changed the availability from “Millipore Corporation, Technical Services Department” to “IDEXX Laboratories, Inc.”
611.102(a) “Chromocult® Method”	Board	Changed the availability from “EMD Chemicals Inc.” to “EMD Millipore.”
611.102(a) “Palintest Method 1001”	Board	Added the document title and version information: “Lead in Drinking Water by Differential Pulse Anodic Stripping Voltammetry.”
611.102(a) “Readycult® 2000”	Board	Changed the availability from “EMD Chemicals Inc.” to “EMD Millipore.”
611.102(b) APHA, “Standard Methods, 16th ed.”	Board	Added the formerly missing reference that includes a method used for the purposes of Section 611.213. See the entry below for 611.102(b) AWWA, “Standard Methods, 16th ed.” (Removed in error in <u>Safe Drinking Water Act Update, Lead and Copper Rules Corrections (January 1, 1994 through June 30, 1994)</u> , R24-23, <u>Safe Drinking Water Act Update, Phase II, IIB & V Corrections & analytical Methods Amendments (July 1, 1994 through December 31, 1994)</u> , R95-3 (June 15, 1995), slip op. at 14, 57-58.)

611.102(b) AWWA, "Standard Methods, 16th ed."	Board	Added the formerly missing reference that includes Method 907A, which is still used for the purposes of Section 611.213. See the above entry for 611.102(b) APHA, "Standard Methods, 16th ed." (See the above entry for 611.102(b) APHA, "Standard Methods, 16th ed.")
611.102(b) AWWA, "Standard Methods, 19th ed.," Method 5310 B	Board	Removed the entry that actually appears in the supplement to Standard Methods, 19th ed. (This was added as available in the supplement to the 19th ed. in <u>SDWA Update, USEPA Regulations (July 1, 1998 through December 31, 1998)</u> , R99-12 (July 22, 1999). It was erroneously added to the 19th ed. in <u>SDWA Update, USEPA Amendments January 1, 2009 through June 30, 2009</u> , R10-1, <u>SDWA Update, USEPA Amendments July 1, 2009 through December 31, 2009</u> , R10-17, <u>SDWA Update, USEPA Amendments (January 1, 2010 through June 30, 2010)</u> , R11-6 (Dec. 2, 2010), slip op. at 40-41.)
611.102(b) AWWA, "Standard Methods, 19th ed.," Method 5310 C	Board	Removed the entry that actually appears in the supplement to Standard Methods, 19th ed. (See the entry above for 611.102(b) AWWA, "Standard Methods, 19th ed.," Method 5310 B.)
611.102(b) AWWA, "Standard Methods, 19th ed.," Method 5310 D	Board	Removed the entry that actually appears in the supplement to Standard Methods, 19th ed. (See the entry above for 611.102(b) AWWA, "Standard Methods, 19th ed.," Method 5310 B.)
611.102(b) AWWA, "Standard Methods, 19th ed.," Method 6651	Board	Removed the parenthetical "(Proposed)" from the method name.
611.102(b) AWWA, "Standard Methods, 19th ed.," Method 7120	Board	Corrected "Method 7120 B" to "Method 7120"; removed the sub-method title "Gamma Spectrometric Method." (Erroneously added as "Method 7120-B" in <u>Safe Drinking Water Act Update, USEPA Amendments (January 1, 1997 through June 30, 1997)</u> , R98-2 (Feb. 19, 1998).)

611.102(b) AWWA, "Standard Methods, 20th ed.," Method 4500-SiO ₂ C	Board	Corrected "Method 4500-Si C" to "Method 4500-SiO ₂ C." (Erroneously added as "Method 4500-Si C" in <u>Safe Drinking Water Act Update, USEPA Amendments (July 1, 2002 through December 31, 2002)</u> , R03-15 (Oct. 2, 2003). The method was called "Method 4500-Si" in Standard Methods, 18th and 19th ed.)
611.102(b) AWWA, "Standard Methods, 20th ed.," Method 4500-SiO ₂ D	Board	Corrected "Method 4500-Si C" to "Method 4500-SiO ₂ D." (See the above entry for 611.102(b) AWWA, "Standard Methods, 20th ed.," Method 4500-SiO ₂ C.)
611.102(b) AWWA, "Standard Methods, 20th ed.," Method 4500-SiO ₂ E	Board	Corrected "Method 4500-Si C" to "Method 4500-SiO ₂ E." (See the above entry for 611.102(b) AWWA, "Standard Methods, 20th ed.," Method 4500-SiO ₂ C.)
611.102(b) AWWA, "Standard Methods, 20th ed.," Method 6251 B	Board	Added the method previously omitted. (See the above entry for 611.102(b) AWWA, "Standard Methods, 20th ed.," Method 4500-SiO ₂ C.)
611.102(b) AWWA, "Standard Methods, 20th ed.," Method 6651 B	Board	Corrected "Method 6651" to "Method 6651 B"; removed the parenthetical "(Proposed)" from the method name; added the sub-method title "Liquid Chromatographic Post-Column Fluorescence Method." (Erroneously added as "Method 6651" in <u>Safe Drinking Water Act Update, USEPA Amendments (July 1, 2002 through December 31, 2002)</u> , R03-15 (Oct. 2, 2003). The method specified from Standard Methods, 18th and 19th ed. is "Method 6651.")
611.102(b) AWWA, "Standard Methods, 20th ed.," Method 9221 B	Board	Added the reference to "611.1052."
611.102(b) AWWA, "Standard Methods, 20th ed.," Method 9221 C	Board	Added the reference to "611.1052."
611.102(b) AWWA, "Standard Methods, 20th ed.," Method 9221 D	Board	Added the reference to "611.1052."

611.102(b) AWWA, "Standard Methods, 20th ed.," Method 9222 B	Board	Added the reference to "611.1052."
611.102(b) AWWA, "Standard Methods, 20th ed.," Method 9223 B	Board	Added the reference to "611.1052."
611.102(b) AWWA, "Standard Methods, 21st ed.," Method 3500-Ca B	Board	Removed the erroneous listing. (Added as Standard Methods, 21st ed., Method 3500-Ca D in <u>SDWA Update, USEPA Amendments (January 1, 2007 through June 30, 2007)</u> , R08-7, <u>SDWA Update, USEPA Amendments (July 1, 2007 through December 31, 2007)</u> , R08-13 (Dec. 18, 2008).)
611.102(b) AWWA, "Standard Methods, 21st ed.," Method 6251 B	Board	Corrected "Method 6610, Method 6610 B" to "Method 6610 B." (Erroneously underlined existing text "Method 6610" when trying to correct the entry to "Method 6610 B" in <u>SDWA Update, USEPA Amendments (January 1, 2011 through June 30, 2011)</u> , R12-4 (Apr. 19, 2012), slip op. at 34, 89.)
611.102(b) AWWA, "Standard Methods, 21st ed.," Method 6610 B	Board	Corrected "Method 6251" to "Method 6251 B"; added the sub-method title "Micro Liquid-Liquid Extraction Gas Chromatography Method." (See the entry above for 611.102(b) AWWA, "Standard Methods, 20th ed.," Method 6651 B.)
611.102(b) AWWA, "Standard Methods, 21st ed.," Method 6651 B	Board	Added the method previously omitted Method. (Erroneously omitted for the listing of Standard Method, 21st ed. methods in <u>SDWA Update, USEPA Amendments (January 1, 2011 through June 30, 2011)</u> , R12-4 (Apr. 19, 2012), slip op. at 10, 18, 33, 89.)
611.102(b) AWWA, "Standard Methods, 21st ed.," Method 9215 B	Board	Added the method previously omitted Method. (Erroneously omitted for the listing of Standard Method, 21st ed. methods in <u>SDWA Update, USEPA Amendments (January 1, 2007 through June 30, 2007 and June 3, 2008)</u> , R08-7, <u>SDWA Update, USEPA Amendments (July 1, 2007 through December 31, 2007)</u> , R08-13 (Dec. 18, 2008), slip op. at 9, 30, slip or. at 58, 160-61.)

611.102(b) ASTM, ASTM D2460-97	Board	Corrected “D2460-90” to “D2460-97”; corrected “1990” to “1997.” (The method was changed from ASTM D2460-90 to ASTM Method 2460-97 in <u>SDWA Update, USEPA Amendments (January 1, 2007 through June 30, 2007 and June 3, 2008)</u> , R08-7, <u>SDWA Update, USEPA Amendments (July 1, 2007 through December 31, 2007)</u> , R08-13 (Dec. 18, 2008), but the incorporation by reference was not changed.)
611.102(b) ASTM, ASTM D2460-97	Board	Corrected “D2907-91 A” to “D2460-97”; removed the sub-methods A and B titles “‘Test Method A—Direct Fluorometric’ & ‘Test Method B—Extraction,’” corrected “1990” to “1997.” (The method was changed from ASTM D2907-91 A to ASTM Method 2907-97 in <u>SDWA Update, USEPA Amendments (July 1, 2002 through December 31, 2002)</u> , R03-15 (Oct. 2, 2003), but the incorporation by reference was not changed.)
611.102(b) ASTM, ASTM D2460-97	Board	Corrected “D3972-90” to “D3972-97”; corrected “1990” to “1997.” (The method was changed from ASTM D3972-90 to ASTM Method 3972-97 in <u>SDWA Update, USEPA Amendments (July 1, 2002 through December 31, 2002)</u> , R03-15 (Oct. 2, 2003), but the incorporation by reference was not changed.)
611.102(b) ASTM, ASTM D3972-09	Board	Added the entry previously omitted in error. (The method was omitted from the incorporation by reference listing when added to substantive provisions in <u>SDWA Update, USEPA Amendments (January 1, 2011 through June 30, 2011)</u> , R12-4 (Apr. 19, 2012).)
611.102(b) ASTM, ASTM D4107-08	Board	Removed “(reapproved 2002).” (Erroneously added from the entry for ASTM Method D4107-98 in <u>SDWA Update, USEPA Amendments January 1, 2009 through June 30, 2009)</u> , R10-1, <u>SDWA Update, USEPA Amendments July 1, 2009 through December 31, 2009)</u> , R10-17, <u>SDWA Update, USEPA Amendments (January 1, 2010 through June 30, 2010)</u> , R11-6 (Dec. 2, 2010).)
611.102(b) ASTM, ASTM D4107-08	Board	Changed “ASTM Method D5317-98” to “ASTMD5317-98(2003)” to comport with the ASTM standard naming scheme.

611.102(b) EMD Millipore, “Chromocult® Method, Version 1.0”	Board	Added the missing parentheses around “referred to as ‘Chromocult® Method, Version 1.0’); added the missing closing quotation mark after “Version 1.0”; added the reference to “611.1052.”
611.102(b) EMD Millipore, “Readycult® 2000”	Board	Added the missing quotation marks to “Readycult® 2000.”
611.102(b) EMD Millipore, “Readycult® 2007”	Board	Added the missing quotation marks to “Readycult® 2007”; added the reference to “611.1052.”
611.102(b) IDEXX Laboratories, Inc., “Colisure Test”	Board	Moved the method from “Millipore Corporation.”
611.102(b) Millipore Corp.	Board	Deleted the obsolete entry.
611.102(b) Millipore Corp., “Colisure Test”	Board	Moved the method to its new source: IDEXX Laboratories, Inc. (40 C.F.R. 141.21(f)(3) table, note 9 lists the ColiSure test as available from IDEXX Laboratories, Inc. 40 C.F.R. 141.21(f)(6)(iv) and (f)(8) states that the method is available from Millipore Corp. 40 C.F.R. 141.402(c)(2) table, note 3 states that test medium is available from IDEXX Laboratories, Inc.)
611.102(b) NEMI, “Systea Easy (1-Reagent) Nitrate Method”	Board	Added the previously omitted version date “February 2009)” offset by a comma.
611.102(b) NTIS, “USEPA Organic and Inorganic Methods”	Board	Added Method 515.3 (rev. 1.0) previously omitted in error. See the entry for USEPA, NSCEP, “USEPA Organic and Inorganic Methods” above. (The method was omitted from the incorporation by reference listing when added to substantive provisions in <u>SDWA Update, USEPA Amendments (January 1, 2011 through June 30, 2011)</u> , R12-4 (Apr. 19, 2012).)
611.102(b) NTIS, “USEPA Radiochemistry Procedures”	Board	Removed “(referred to as ‘).”

611.102(b) Palintest, Ltd., “Palintest ChloroSense”	Board	Added “(referred to as ‘Palintest ChloroSense’).”
611.102(b) Standard Methods Online, “Method 3112 B-09”	Board	Removed the method that is now available in Standard Methods, 22nd ed.
611.102(b) Standard Methods Online, “Method 3114 B-04”	Board	Removed the method, which should have been listed as “Method 3114 B-09,” is now available in Standard Methods, 22nd ed. (The method, which should have appeared as “Method 3114 B-9” was added as Method 3114 B-04” when added to substantive provisions in <u>SDWA Update, USEPA Amendments (January 1, 2011 through June 30, 2011)</u> , R12-4 (Apr. 19, 2012).)
611.102(b) Standard Methods Online, “Method 6110 B-04”	Board	Removed the method that is now available in Standard Methods, 22nd ed.
611.102(b) Standard Methods Online Board note	Board	Added references to Standard Methods, 22nd ed.; added explanation that Methods 2320 B-97, 3112 B-09, and 3114 B-09 as available in the printed versions. (Added in error in <u>SDWA Update, USEPA Amendments (January 1, 2011 through June 30, 2011)</u> , R12-4 (Apr. 19, 2012). The method approved by USEPA on June 3, 2008 (73 Fed. Reg. 31616) was Standard Methods Online, Method 2320 B-97, which also appeared as Standard Methods, 21st ed., Method 2320 B. Thus, the Board should not have made any entry for Standard Methods Online.)
611.102(b) Thermo Scientific	Board	Added the phone number “800-225-1480 or.”
611.102(b) USDHS, STD	Board	Added explanation of the availability only of “EML Procedures Manual” in the 28th edition from the stated source, yet retention of the incorporation of the 27th edition by reference.
611.102(b) USEPA, EMSL, “Procedures for Radiochemical Analyses of Nuclear Reactor Aqueous Solutions”	Board	Added the document number “EPA-R4-73-014, May 1973” with an offsetting comma.

611.102(b) USEPA, NSCEP, “USEPA Organic and Inorganic Methods”	Board	Added Method 515.3 (rev. 1.0) previously omitted in error. See the entry for NTIS, “USEPA Organic and Inorganic Methods” above. (The method was omitted from the incorporation by reference listing when added to substantive provisions in <u>SDWA Update, USEPA Amendments (January 1, 2011 through June 30, 2011), R12-4 (Apr. 19, 2012).</u>)
611.102(b) USEPA, NSCEP, “USEPA OGWDW Methods, Method 524.3, rev. 1.0”	Board	Removed the parenthetical alternative method name “(referred to as ‘Method 524.3 (rev. 1.0)’).”
611.102(b) USEPA, NSCEP, “USEPA OGWDW Methods, Method 1623.1”	Board	Corrected the document number “EPA 8161/R-12/001” to “EPA 816/R-12/001.”
611.102(b) USEPA, ORD, “USEPA NERL Method 415.3, rev. 1.2”	Board	Removed the date “February 2005,” which should have appeared as “August 2009,” corrected by USEPA to September 2009.”
611.102(b) USEPA, ORD, “USEPA NERL Method 549.2, rev. 1.0”	Board	Added “referenced in Section 611.645” offset by a comma.
611.102(b) USEPA, Water Resource Center	Board	Added a comma after “USEPA.”
611.102(c), “40 CFR 3.2”	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.102(c), “40 CFR 3.3”	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.102(c), “40 CFR 3.10”	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.102(c), “40 CFR 3.2000”	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.102(c), “40 CFR 136.3(a)”	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.

611.102(c), “appendix B to 40 CFR 136”	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.102(c), “40 CFR 142.20(b)(1)”	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.102(c), “40 CFR 3.2”	Board	Added “subpart G or 40 CFR 142” previously omitted in error. (The citation was omitted from the incorporation by reference listing when added to substantive provisions in <u>SDWA Update, Phase II and Coliform Rules (July 1, 1990 through January 31, 1991)</u> , R91-3, <u>SDWA Update, Phase I Corrections</u> , R92-9 (Nov. 19, 1992).)
611.111 Board note	Board	Updated the <i>Code of Federal Regulations</i> citations to the latest version available (twice); added the version year “(2011)” to the <i>United States Code</i> citation.
611.112(f) Board note	Board	Added the version year “(2011)” to the <i>United States Code</i> citation.
611.112 Board note	Board	Updated the <i>Code of Federal Regulations</i> citations to the latest version available (twice).
611.232 Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.325 Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.351(b)(2)	Board	Changed “SEP granted pursuant to” to “SEP issued pursuant to” for uniform usage throughout Part 611.
611.351 Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available, including removal of an obsolete <i>Federal Register</i> citation.
611.355(b)(4)(B)	Board	Changed “SEP granted pursuant to” to “SEP issued pursuant to” for uniform usage throughout Part 611.
611.355 Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available, including removal of an obsolete <i>Federal Register</i> citation.
611.356(d)(4)(B)(i)	Board	Changed “SEP granted pursuant to” to “SEP issued pursuant to” for uniform usage throughout Part 611.

611.356(d)(4)(B)(ii)	Board	Changed “SEP granted pursuant to” to “SEP issued pursuant to” for uniform usage throughout Part 611.
611.356(d)(4)(C)(ii)	Board	Changed “SEP granted pursuant to” to “SEP issued pursuant to” for uniform usage throughout Part 611.
611.356(d)(4)(G)	Board	Changed “SEP granted pursuant to” to “SEP issued pursuant to” for uniform usage throughout Part 611.
611.356 Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available, including removal of an obsolete <i>Federal Register</i> citation.
611.360(a)(1)(H)	Board	Changed “SEP granted pursuant to” to “SEP issued pursuant to” for uniform usage throughout Part 611.
611.360(e)(4)	Board	Changed “SEP granted pursuant to” to “SEP issued pursuant to” for uniform usage throughout Part 611.
611.360 Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available, including removal of an obsolete <i>Federal Register</i> citation.
611.381(a)	Board	Added “each of which is incorporated by reference in Section 611.102” offset as a parenthetical by commas.
611.381(b)(1)(D)(i)	Board	Added “for daily monitoring pursuant to Section 611.382(b)(2)(A)(i),” which was previously omitted in error. (Omitted when adopting <u>SDWA Update, USEPA Amendments (January 1, 2007 through June 30, 2007)</u> , R08-7, <u>SDWA Update, USEPA Amendments (July 1, 2007 through December 31, 2007)</u> , R08-13 (Dec. 18, 2008).)
611.381(b)(1)(D)(i)	Board	Removed “BOARD NOTE:” from before the subsection designation, previously retained in error when deleting a Board note. (Error originated in <u>SDWA Update, USEPA Amendments (January 1, 2009 through June 30, 2009)</u> , R10-1, <u>SDWA Update, USEPA Amendments (July 1, 2009 through December 31, 2009)</u> , R10-17, <u>SDWA Update, USEPA Amendments (January 1, 2010 through June 30, 2010)</u> , R11-6 (Dec. 2, 2010), slip. or. at 104-04.)

611.381(c)(1)(A)(vi)	Board	Corrected the subsection designation “v” to “vi.” (Error originated in <u>SDWA Update, USEPA Amendments (January 1, 2009 through June 30, 2009)</u> , R10-1, <u>SDWA Update, USEPA Amendments (July 1, 2009 through December 31, 2009)</u> , R10-17, <u>SDWA Update, USEPA Amendments (January 1, 2010 through June 30, 2010)</u> , R11-6 (Dec. 2, 2010), slip. or. at 107-08.)
611.381(c)(1)(A)(vi)	Board	Corrected the subsection designation “vi” to “vii.” (See the entry above for 611.381(c)(1)(A)(vi).)
611.381(d)(3)(A)(i)	Board	Corrected “Standard Methods, 19th” to “Standard Methods, 19th (Supplement).” (Error originated in <u>SDWA Update, USEPA Amendments (July 1, 2005 through December 31, 2005)</u> , R06-15 (Oct. 5, 2006), slip. or. at 145.)
611.381(d)(3)(B)(i)	Board	Corrected “Standard Methods, 19th” to “Standard Methods, 19th (Supplement).” (See the entry above for 611.381(d)(3)(A)(i).)
611.381(d)(3)(C)(i)	Board	Corrected “Standard Methods, 19th” to “Standard Methods, 19th (Supplement).” (See the entry above for 611.381(d)(3)(A)(i).)
611.381(d)(4)(A)(i)	Board	Removed the unnecessary appearances of “ed.” after intermediate elements of the series (twice); corrected “Standard Methods, 19th” to “Standard Methods, 19th (Supplement).” (Error originated in <u>SDWA Update, USEPA Amendments (July 1, 2005 through December 31, 2005)</u> , R06-15 (Oct. 5, 2006), slip. or. at 145.)
611.381(d)(4)(A)(ii)	Board	Added the missing designation of the method source “Standard Methods, 19th (Supplement), 20th, 21st . . . ed.” (Error originated in <u>SDWA Update, USEPA Amendments (January 1, 2009 through June 30, 2009)</u> , R10-1, <u>SDWA Update, USEPA Amendments (July 1, 2009 through December 31, 2009)</u> , R10-17, <u>SDWA Update, USEPA Amendments (January 1, 2010 through June 30, 2010)</u> , R11-6 (Dec. 2, 2010), slip. or. at 113.)

611.381(d)(4)(A)(iii)	Board	Removed the unnecessary appearances of “ed.” after intermediate elements of the series (twice); corrected “Standard Methods, 19th” to “Standard Methods, 19th (Supplement).” (Error originated in <u>SDWA Update, USEPA Amendments (July 1, 2005 through December 31, 2005)</u> , R06-15 (Oct. 5, 2006), slip. or. at 145.)
611.381(d)(4)(B) Board note	Board	Corrected “ultraviolet absorption” to “ultraviolet absorption at 254 nm.” (Omitted when reworded in <u>SDWA Update, USEPA Amendments (January 1, 2009 through June 30, 2009)</u> , R10-1, <u>SDWA Update, USEPA Amendments (July 1, 2009 through December 31, 2009)</u> , R10-17, <u>SDWA Update, USEPA Amendments (January 1, 2010 through June 30, 2010)</u> , R11-6 (Dec. 2, 2010), slip. or. at 113.)
611.381 Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.382(b)(3)(B)	Board	Added the missing incorporation language “each incorporated by reference in Section 611.102.” (Omitted when adopted in <u>SDWA Update, USEPA Amendments (January 1, 2006 through June 30, 2006)</u> , R07-2, <u>SDWA Update, USEPA Amendments (July 1, 2006 through December 31, 2006)</u> , R07-11 (July 26, 2007), slip. or. at 90.)
611.382 Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.382(f)(3)	Board	Added the defined short-form method name “Colisure Test” in parentheses.
611.382(f)(11)	Board	Corrected the spelling “Standard” to “Standard.” (Error occurred when adding provision in <u>SDWA Update, USEPA Amendments (January 1, 2009 through June 30, 2009)</u> , R10-1, <u>SDWA Update, USEPA Amendments (July 1, 2009 through December 31, 2009)</u> , R10-17, <u>SDWA Update, USEPA Amendments (January 1, 2010 through June 30, 2010)</u> , R11-6 (Dec. 2, 2010), slip. or. at 127.)
611.526 Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.

611.531 Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.532 Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.611(a)(3)(D)(iii)	Board	Correcting the entry “Standard Methods Online, Method 3114 B-04” to “Standard Methods Online, Method 3114 B-09” allowed deletion of the entry in favor of Standard Methods, 21st ed., Method 3114 B. See the entry in table 2 above. (Added in error in <u>SDWA Update, USEPA Amendments (January 1, 2011 through June 30, 2011)</u> , R12-4 (Apr. 19, 2012). The method approved by USEPA on June 3, 2008 (73 Fed. Reg. 31616) was Standard Methods Online, Method 3114 B-09, which also appeared as Standard Methods, 21st ed., Method 3114 B. Thus, the Board should not have made any entry for Standard Methods Online.)
611.611(a)(3) Board note	Board	Corrected “Method 3114 B-04” to “Method 3114 B-09.” See the entry in table 2 above. (See the entry above for 611.611(a)(3)(D)(iii).)
611.611(a)(12)(A)(i)	Board	Corrected “2036-06” to “D2036-06.” (Added in <u>SDWA Update, USEPA Amendments (January 1, 2007 through June 30, 2007)</u> , R08-7, <u>SDWA Update, USEPA Amendments (July 1, 2007 through December 31, 2007)</u> , R08-13 (Dec. 18, 2008).)
611.611(a)(12)(F)	Board	Corrected the spelling “QuickChem” to “QuikChem.” (Added in <u>SDWA Update, USEPA Amendments (July 1, 2002 through December 31, 2002)</u> , R03-15 (Oct. 2, 2002), slip or. at 260.)
611.611(a)(12)(G)(i)	Board	Corrected “D6888-03” to “D6888-04.” (Added in <u>SDWA Update, USEPA Amendments (January 1, 2007 through June 30, 2007)</u> , R08-7, <u>SDWA Update, USEPA Amendments (July 1, 2007 through December 31, 2007)</u> , R08-13 (Dec. 18, 2008).)


611.611(a)(20)Board note	Board	Removed the comma and added the conjunction “and” before “4500-P E and F.” (Error originated in <u>SDWA Update, USEPA Amendments (January 1, 2009 through June 30, 2009)</u> , R10-1, <u>SDWA Update, USEPA Amendments (July 1, 2009 through December 31, 2009)</u> , R10-17, <u>SDWA Update, USEPA Amendments (January 1, 2010 through June 30, 2010)</u> , R11-6 (Dec. 2, 2010), slip. or. at 166.)
611.611(a)(22)(A)-(iii)	Board	Correcting the entry “Standard Methods Online, Method 3114 B-04” to “Standard Methods Online, Method 3114 B-09” allowed deletion of the entry in favor of Standard Methods, 21st ed., Method 3114 B. See the entry in table 2 above. (Added in error in <u>SDWA Update, USEPA Amendments (January 1, 2011 through June 30, 2011)</u> , R12-4 (Apr. 19, 2012). The method approved by USEPA on June 3, 2008 (73 Fed. Reg. 31616) was Standard Methods Online, Method 3114 B-09, which also appeared as Standard Methods, 21st ed., Method 3114 B. Thus, the Board should not have made any entry for Standard Methods Online.)
611.611(a)(22) Board note	Board	Corrected “Method 3114 B-04” to “Method 3114 B-09.” See the entry in table 2 above. (See the entry above for 611.611(a)(3)(D)(iii).)
611.611 Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.612(c)	Board	Changed “SEP granted pursuant to” to “SEP issued pursuant to” (twice) for uniform usage throughout Part 611.
611.612(f)(2)(D) Board note	Board	Changed “this method” to “USEPA NERL Method 200.5” and moved the entire text into the Board note appended to 611.612(f)(2), removing this Board note.
611.612(f)(2) Board note	Board	Changed “this method” to “USEPA NERL Method 200.5” in the text of the Board note appended to 611.612(f)(2)(D) and moved the entire text into this Board note. See the entry in table 2 above.
611.612 Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available (twice).

611.645(a), carbon tetrachloride	Board	Corrected “Method” to plural “Methods.”
611.645(a), 1,1-dichloroethylene	Board	Moved the entry into correct alphabetic position.
611.645(a), toluene	Board	Moved the entry into correct alphabetic position.
611.645(b), 2,4-D	Board	Corrected “D5317-98” to “D5317-98(2003),” which is ASTM’s standard format for a reauthorized method designation.
611.645(b), 2,4,5-TP (silvex)	Board	Corrected “D5317-98” to “D5317-98(2003),” which is ASTM’s standard format for a reauthorized method designation.
611.645(c), total trihalomethanes	Board	Corrected “Method” to plural “Methods.”
611.645(e), note 2	Board	Corrected “0.0015mg/l” to “0.0015 mg/l.”
611.645 Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available (twice).
611.720(a)(5)(A)	Board	Added the formerly omitted Method 7500-U B. (Omitted when the method was added in <u>SDWA Update, USEPA Amendments (January 1, 2007 through June 30, 2007)</u> , R08-7, <u>SDWA Update, USEPA Amendments (July 1, 2007 through December 31, 2007)</u> , R08-13 (Dec. 18, 2008).)
611.720(a)(5)(C)(ii)	Board	Moved Method D3972-09 from subsection (a)(5)(C)(iii), which pertains to Method D5174. (Erroneously placed in the wrong subsection in <u>SDWA Update, USEPA Amendments (January 1, 2011 through June 30, 2011)</u> , R12-4 (Apr. 19, 2012), slip op. at 10, 18, 33, 89.)
611.720(a)(5)(C)(iii)	Board	Moved Method D3972-09 into subsection (a)(5)(C)(ii), which pertains to Method D3972. (See the entry above for subsection (a)(5)(C)(ii).)
611.720(a)(5) Board note	Board	Added Method 7500-U B formerly omitted in error. (See the entry above for subsection (a)(5)(A).)
611.720(c)(1) Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.

611.720(c)(2) Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.720 Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.802(a)(1)	Board	Removed “following” and changed the ending colon to a period.
611.802(c)(2)	Board	Added the parenthetical “each incorporated by reference in Section 611.102” offset by a comma.
611.802 Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.805 Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.883(d)(4)(D) Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.883 Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available, including deletion of an obsolete <i>Federal Register</i> citation.
611.885(b)	Board	Changed “SEP granted pursuant to” to “SEP issued pursuant to” for uniform usage throughout Part 611.
611.885 Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.901(c)(2)	Board	Changed “SEP granted pursuant to” to “SEP issued pursuant to” for uniform usage throughout Part 611.
611.901 Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.902 Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.903 Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available, including deletion of an obsolete <i>Federal Register</i> citation.
611.904 Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.

611.1007 Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.Appendix A Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.Appendix G Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.Appendix H Board note	Board	Updated the <i>Code of Federal Regulations</i> citation to the latest version available.
611.Table Z, Total Coliforms Rule	Board	Added the formerly omitted entry.
611.Table Z, Surface Water Treatment Rule	Board	Added the formerly omitted entry.
611.Table Z, Revised Total Coliforms Rule	Board	Added the entry for the new rule.

I, John T. Therriault, Clerk of the Illinois Pollution Control Board, certify that the Board adopted the above opinion on November 7, 2013, by a vote of 4-0.



John T. Therriault, Clerk
Illinois Pollution Control Board