

TABLE 7—EPA-APPROVED WASHOE COUNTY REGULATIONS—Continued

District citation	Title/Subject	District effective date	EPA Approval date	Additional explanation
[Related to 040.095] .....	Washoe County District Board of Health Meeting, September 22, 2005, Public Hearing—Amendments—Washoe County District Board of Health Regulations Governing Air Quality Management; to Wit: Rule 040.095 (Oxygen Content of Motor Vehicle Fuel).	9/22/05	73 FR 38124 (7/3/08)	See 52.1490(c)(69)(i)(A)(1)(i).
<b>EMERGENCY EPISODE PLAN</b>				
050.001 .....	Emergency Episode Plan.	3/23/06	72 FR 33397 (6/18/07)	Submitted on 5/5/06. See 40 CFR 52.1490(c)(63)(i)(A)(1).
060.010 .....	Emergency Authority to Act.	2/1/72	37 FR 15080 (7/27/72)	Submitted on June 12, 1972. See 40 CFR 52.1490(c)(2).
060.015 .....	Sampling Stations and Air Sampling.	2/1/72	37 FR 15080 (7/27/72)	Submitted on June 12, 1972. See 40 CFR 52.1490(c)(2).
060.020 .....	Reports .....	2/1/72	37 FR 15080 (7/27/72)	Submitted on June 12, 1972. See 40 CFR 52.1490(c)(2).
060.025 .....	Continuing Program of Voluntary Cooperation.	2/1/72	37 FR 15080 (7/27/72)	Submitted on June 12, 1972. See 40 CFR 52.1490(c)(2).

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**ENVIRONMENTAL PROTECTION AGENCY**

**40 CFR Part 141**

[EPA-HQ-OW-2014-0408; FRL-9912-52-OW]

**Expedited Approval of Alternative Test Procedures for the Analysis of Contaminants Under the Safe Drinking Water Act; Analysis and Sampling Procedures**

**AGENCY:** Environmental Protection Agency (EPA).

**ACTION:** Final rule.

**SUMMARY:** This action announces the U.S. Environmental Protection Agency’s (EPA’s) approval of alternative testing methods for use in measuring the levels of contaminants in drinking water and determining compliance with national primary drinking water regulations. The Safe Drinking Water Act (SDWA) authorizes EPA to approve the use of alternative testing methods through

publication in the **Federal Register**. EPA is using this streamlined authority to make 21 additional methods available for analyzing drinking water samples. This expedited approach provides public water systems, laboratories, and primacy agencies with more timely access to new measurement techniques and greater flexibility in the selection of analytical methods, thereby reducing monitoring costs while maintaining public health protection.

**DATES:** This action is effective June 19, 2014.

**FOR FURTHER INFORMATION CONTACT:** Safe Drinking Water Hotline (800) 426-4791 or Glynda Smith, Technical Support Center, Standards and Risk Management Division, Office of Ground Water and Drinking Water (MS 140), Environmental Protection Agency, 26 West Martin Luther King Drive, Cincinnati, OH 45268; telephone number: (513) 569-7652; email address: [smith.glynda@epa.gov](mailto:smith.glynda@epa.gov).

**SUPPLEMENTARY INFORMATION:**

**I. General Information**

*A. Does this action apply to me?*

Public water systems are the regulated entities required to measure

contaminants in drinking water samples. In addition, EPA Regions as well as States and Tribal governments with authority to administer the regulatory program for public water systems under SDWA may measure contaminants in water samples. When EPA sets a monitoring requirement in its national primary drinking water regulations for a given contaminant, the agency also establishes in the regulations standardized test procedures for analysis of the contaminant. This action makes alternative testing methods available for particular drinking water contaminants beyond the testing methods currently established in the regulations. EPA is providing public water systems required to test water samples with a choice of using either a test procedure already established in the existing regulations or an alternative test procedure that has been approved in this action or in prior expedited approval actions. Categories and entities that may ultimately be affected by this action include:

Category	Examples of potentially regulated entities	NAICS <sup>1</sup>
State, Local, & Tribal Governments .....	States, local and Tribal governments that analyze water samples on behalf of public water systems required to conduct such analysis; States, local and Tribal governments that themselves operate community and non-transient non-community water systems required to monitor.	924110
Industry .....	Private operators of community and non-transient non-community water systems required to monitor.	221310
Municipalities .....	Municipal operators of community and non-transient non-community water systems required to monitor.	924110

<sup>1</sup> North American Industry Classification System.

This table is not exhaustive, but rather provides a guide for readers regarding entities likely to be affected by this action. This table lists the types of entities that EPA is now aware could potentially be affected by this action. Other types of entities not listed in the table could also be impacted. To determine whether your facility is affected by this action, you should carefully examine the applicability language in the *Code of Federal Regulations* (CFR) at 40 CFR 141.2 (definition of public water system). If you have questions regarding the applicability of this action to a particular entity, consult the person listed in the preceding **FOR FURTHER INFORMATION CONTACT** section.

*B. How can I get copies of this document and other related information?*

Docket. EPA established a docket for this action under Docket ID No. EPA–HQ–OW–2014–0408. Publicly available docket materials are available either electronically through [www.regulations.gov](http://www.regulations.gov) or in hard copy at the Water Docket in the EPA Docket Center, (EPA/DC) William Jefferson Clinton West Building, Room 3334, 1301 Constitution Ave. NW., Washington, DC. Copyrighted materials are available only in hard copy. The EPA DC Public Reading Room is open from 8:30 a.m. to 4:30 p.m., Monday through Friday, excluding legal holidays. The telephone number for the Public Reading Room is (202) 566–1744, and the telephone number for the Water Docket is (202) 566–2426.

**Abbreviations and Acronyms Used in This Action**

- APHA: American Public Health Association
- ATP: Alternate Test Procedure
- CFR: *Code of Federal Regulations*
- DPD: N,N-diethyl-p-phenylenediamine
- EPA: United States Environmental Protection Agency
- GWR: Ground Water Rule
- NAICS: North American Industry Classification System
- NEMI: National Environmental Methods Index
- PRFC: Planar Reagent-Filled Cuvette(s)

- QC: Quality Control
- RTCR: Revisions to the Total Coliform Rule
- SDWA: The Safe Drinking Water Act
- TCR: Total Coliform Rule
- VCSB: Voluntary Consensus Standard Bodies

**II. Background**

*A. What is the purpose of this action?*

In this action, EPA is approving 21 analytical methods for determining contaminant concentrations in samples collected under SDWA. Regulated parties required to sample and monitor may use either the testing methods already established in existing regulations or the alternative testing methods being approved in this action or in prior expedited approval actions. The new methods are listed along with other methods similarly approved through previous expedited actions in 40 CFR Part 141 Appendix A to Subpart C and on EPA’s drinking water methods Web site at [http://water.epa.gov/scitech/drinkingwater/labcert/analyticalmethods\\_expedited.cfm](http://water.epa.gov/scitech/drinkingwater/labcert/analyticalmethods_expedited.cfm).

*B. What is the basis for this action?*

When EPA determines that an alternative analytical method is “equally effective” (i.e., as effective as a method that has already been promulgated in the regulations), SDWA allows EPA to approve the use of the alternative method through publication in the **Federal Register**. (See Section 1401(1) of SDWA.) EPA is using this streamlined approval authority to make 21 additional methods available for determining contaminant concentrations in samples collected under SDWA. EPA has determined that, for each contaminant or group of contaminants listed in Section III, the additional testing methods being approved in this action are as effective as one or more of the testing methods already approved in the regulations for those contaminants. Section 1401(1) of SDWA states that the newly approved methods “shall be treated as an alternative for public water systems to the quality control and testing procedures listed in the regulation.” Accordingly, this action makes these

additional 21 analytical methods legally available as options for meeting EPA’s monitoring requirements.

This action does not add regulatory language, but does, for informational purposes, update an appendix to the regulations at 40 CFR Part 141 that lists all methods approved under Section 1401(1) of SDWA. Accordingly, while this action is not a rule, it is updating CFR text and therefore is being published in the “Final Rules” section of the **Federal Register**.

**III. Summary of Approvals**

EPA is approving 21 methods that are equally effective relative to methods previously promulgated in the regulations. By means of this rule, these 21 methods are added to Appendix A to Subpart C of 40 CFR Part 141.

*A. Methods Developed by Voluntary Consensus Standard Bodies (VCSB)*

1. Standard Methods for the Examination of Water and Wastewater (Standard Methods). EPA compared the most recent online versions of 14 Standard Methods to earlier versions of those methods that are currently approved in 40 CFR parts 141 and 143. Changes between the approved version and the most recent version of each method are summarized in Smith and Wendelken (2013a). The revisions primarily involve editorial changes (e.g., corrections of errors, procedural clarifications, and reorganization of text). The updated online versions listed in the following table are the same as the earlier approved versions with respect to the chemistry and microbiology, sample handling protocols, and method performance data. For all of these reasons, EPA has concluded that the updated online versions are equally effective relative to those that are currently approved in the regulations. Therefore, EPA is approving the use of the 14 updated Standard Methods for the contaminants and their respective regulations listed in the following table:

Standard method revised version	Approved method	Contaminant	Regulation
2550–10, online version (APHA 2010a) .... 3113 B–10, online version (APHA 2010b)	2550–00, online version (APHA 2000a) 3113 B–99, online version (APHA 1999)	Temperature ..... Antimony, arsenic, barium, beryllium, cadmium, chromium, copper, lead, nickel, selenium, alu- minum, iron, man- ganese, silver.	40 CFR 141.23(k)(1). 40 CFR 141.23(k)(1); 40 CFR 143.4(b).
5910 B–11, online version (APHA 2011) ..	5910 B–00, online version (APHA 2000b).	UV Absorption at 254 nm ..	40 CFR 141.131(d).
6251 B–07, online version (APHA 2007) .. 6640 B–06, online version (APHA 2006a)	6251 B–94, online version (APHA 1994) EPA Method 515.4, Rev. 1.0 (USEPA 2000).	HAA5 ..... 2,4–D; 2,4,5–TP; Dalapon; Dinoseb; Pentachlorophenol; Picloram.	40 CFR 141.131(b)(1). 40 CFR 141.24(e)(1).
6651 B–05, online version (APHA 2005a) 9221 A–06, online version (APHA 2006b)	6651 B, 20th Edition (APHA 1998) ..... 9221 A, 20th Edition (APHA 1998) .....	Glyphosate ..... Total Coliforms .....	40 CFR 141.24(e)(1). 40 CFR 141.21(f)(3); 40 CFR 141.74(a)(1).
9221 B–06, online version (APHA 2006c)	9221 B, 20th Edition (APHA 1998) .....	Total Coliforms .....	40 CFR 141.21(f)(3); 40 CFR 141.74(a)(1).
9221 B.1, B.2–06, online version (APHA 2006c).	9221 B.1, B.2, 20th Edition (APHA 1998)	Total Coliforms .....	40 CFR 141.852(a)(5).
9221 C–06, online version (APHA 2006d) 9221 E–06, online version (APHA 2006e)	9221 C, 20th Edition (APHA 1998) ..... 9221 E, 20th Edition (APHA 1998) .....	Total Coliforms ..... Fecal Coliforms .....	40 CFR 141.74(a)(1). 40 CFR 141.21(f)(5); 40 CFR 141.74(a)(1).
9221 F–06, online version (APHA 2006f) 9221 F.1–06, online version (APHA 2006f).	9221 F, 20th Edition (APHA 1998) ..... 9221 F.1, 20th Edition (APHA 1998) .....	<i>E. coli</i> ..... <i>E. coli</i> .....	40 CFR 141.402(c)(2). 40 CFR 141.852(a)(5).
9222 D–06, online version (APHA 2006g) 9223 B–04, online version (APHA 2004a)	9222 D, 20th Edition (APHA 1998) ..... 9223, 20th Edition (APHA 1998) .....	Fecal Coliforms ..... Total Coliforms .....	40 CFR 141.74(a)(1). 40 CFR 141.21(f)(3); 40 CFR 141.74(a)(1); 40 CFR 141.852(a)(5).
9223 B–04, online version (APHA 2004a)	9223 B, 20th Edition (APHA 1998) .....	<i>E. coli</i> .....	40 CFR 141.21(f)(6); 40 CFR 141.402(c)(2); 40 CFR 141.852(a)(5).
9215 B–04, online version (APHA 2004b)	9215 B, 20th Edition (APHA 1998) .....	Heterotrophic Bacteria .....	40 CFR 141.74(a)(1).

The online versions of Standard Methods are available at <http://www.standardmethods.org>.

2. ASTM International. EPA compared the most recent versions of three ASTM International methods (ASTM Methods D512–12 B, D3223–12, and D4327–11) to the earlier versions of those methods that are currently approved in 40 CFR 141 and 143.

Changes between the earlier approved version and the most recent version of each method are summarized in Smith (2013). The revisions primarily involve editorial changes (e.g., updated references, definitions, terminology, procedural clarifications, and reorganization of text). The revised methods are the same as the approved versions with respect to sample

collection and handling protocols, sample preparation, analytical methodology, and method performance data; thus, EPA finds they are equally effective relative to the approved methods.

EPA is thus approving the use of the following ASTM methods for the contaminants and their respective regulations listed in the following table:

ASTM Revised version	Approved method	Contaminant	Regulation
D512–12 B (ASTM 2012a) .....	D512–89 B (reapproved 1999) (ASTM 1989).	Chloride .....	40 CFR 143.4(b).
D3223–12 (ASTM 2012b) .....	D3223–02 (ASTM 2002) .....	Mercury .....	40 CFR 141.23(k)(1).
D4327–11 (ASTM 2011) .....	D4327–03 (ASTM 2003) .....	Fluoride, nitrate, nitrite, orthophosphate, chlo- ride, sulfate.	40 CFR 141.23(k)(1); 40 CFR 143.4(b).

The ASTM methods are available from ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA 19428–2959 or <http://www.astm.org>.

*B. Methods Developed by Vendors*

1. IDEXX Laboratories, Inc. Colilert-18®. Colilert-18® is an approved commercial medium capable of simultaneous detection of total coliform and *Escherichia coli* bacteria. The use of this medium is described in Standard

Method 9223 B, 21st edition of *Standard Methods for the Examination of Water and Wastewater* (APHA 2005b). Standard Method 9223 B is approved for determination of total coliform bacteria and *E. coli* under the Revisions to the Total Coliform Rule (RTC) (USEPA 2013) as cited at 40 CFR 141.852(a)(5). Colilert-18® is a minor variation of an already approved medium, and was determined to be applicable to the Total Coliform Rule

(TCR) (Dougherty 1996). EPA is using today’s action to clarify that Colilert-18® is itself an approved medium when used as described in Standard Method 9223 B for determining total coliform bacteria and *E. coli* in drinking water under the RTC. Accordingly, EPA is adding the Colilert-18® medium and methodology as described in Standard Method 9223 B to the list of alternative testing methods in Appendix A to Subpart C of Part 141. Colilert-18® is

available from IDEXX Laboratories, Inc., One IDEXX Drive, Westbrook, ME 04092, and also at <http://www.idexx.com>.

2. Hach Company Method 10260—Determination of Chlorinated Oxidants (Free and Total) in Water using Disposable Planar Reagent-Filled Cuvettes and Mesofluidic Channel Colorimetry (Hach Company 2013a). The Hach Company Method 10260 uses disposable planar reagent-filled cuvettes (PRFC) to measure free, total and combined chlorine as an optional alternate test procedure to Standard Method 4500—Cl G (APHA 1998) which is approved in the drinking water regulations at 40 CFR 141.74(a)(2) for determination of free and total chlorine, and at 40 CFR 141.131(c)(1) for determination of free, total and combined chlorine. In this method, a mesofluidic pump system draws a water sample through a cuvette that is prefilled with the reagents required to perform DPD (N,N-diethyl-p-phenylenediamine) colorimetric chlorine tests. The sample is then drawn to an optical channel where the chlorine level is measured at a wavelength between 490 and 530 nm. Automation of the DPD determination relative to the manual procedure described in the approved method reduces errors associated with reagent addition, mixing and color development. Three laboratories analyzed a variety of drinking water matrices (e.g., low ionic strength, high ionic strength, and tap water samples derived from both surface water and ground water sources). The performance characteristics of the Hach Method 10260 were compared to the performance characteristics of the approved method. The validation study report (Hach 2013b) summarizes the results obtained from the multi-laboratory study and indicates that Hach Method 10260 is equally as effective as Standard Method 4500—Cl G for the colorimetric determination of free and total chlorine in drinking water. The basis for this determination is discussed in Smith and Wendelken (2013b). EPA is thus approving Hach Method 10260 as an alternate method to Standard Method 4500—Cl G for the analysis of free and total chlorine in drinking water. Hach Method 10260 is available from Hach Company, 5600 Lindbergh Drive, P.O. Box 389, Loveland, CO 80539, and also at [www.hach.com](http://www.hach.com).

3. Palintest Ltd ChlordioX Plus Method—Chlorine Dioxide and Chlorite in Drinking Water by Amperometry using Disposable Sensors (Palintest Ltd 2013). The Palintest Ltd ChlordioX Plus uses recyclable disposable sensors for amperometric detection of chlorine

dioxide and the disinfection byproduct, chlorite, in drinking water. Standard Method 4500—ClO<sub>2</sub> E (APHA 1998) is an amperometric titration method that is currently approved in the regulations at 40 CFR 141.74(a)(2) and 40 CFR 141.131(c)(1) for determination of chlorine dioxide in drinking water; it is also cited in the regulations at 40 CFR 141.131(b)(1) for routine daily monitoring of chlorite. The approved method requires experienced analysts and is not portable, which limits options for field and site testing. The ChlordioX Plus method is associated with a portable sensor driven instrument and chlorine dioxide standards are available, which can be used with the instrument. Chlorine dioxide is reduced at the surface of the sensor and the current produced is directly proportional to the chlorine dioxide level in the sample. The chlorite level can be determined from a sample duplicate by oxidation of iodide to iodine. The method performance of the ChlordioX Plus method was compared to the performance of Standard Method 4500—ClO<sub>2</sub> E at three public drinking water utilities that use chlorine dioxide for primary disinfection. A variety of samples, including drinking water samples from both surface and ground water sources, were fortified with known chlorine dioxide and chlorite concentrations and then analyzed by each method. The results of the validation study are summarized in Smith and Wendelken (2013c). EPA has determined that the ChlordioX Plus method is equally as effective as the approved method, Standard Method 4500—ClO<sub>2</sub> E. The basis for this determination is discussed in Smith and Wendelken (2013c). Therefore, EPA is approving the ChlordioX Plus method for determining chlorine dioxide and chlorite in drinking water. A copy of the method can be obtained by contacting Palintest Ltd, 1455 Jamike Avenue (Suite 100), Erlanger, KY 41018.

4. Veolia Water Solutions and Technologies Tecta EC/TC Method—Presence/Absence Method for the Simultaneous Detection of Total Coliforms and *Escherichia coli* (*E. coli*) in Drinking Water (Veolia 2014a). Tecta EC/TC is a microbiological method for the simultaneous detection of total coliforms and *E. coli* in drinking water by broth enrichment of samples. Total coliforms and *E. coli* are detected as being present or absent in 100 mL samples of drinking water by enzymatic cleavage of fluorogenic substances with the formation of fluorescent compounds after incubation. Approved drinking water methods for total coliforms are

listed at 40 CFR 141.21(f)(3) under the Total Coliform Rule (TCR) and at 40 CFR 141.852(a)(5) under the Revisions to the Total Coliform Rule (RTCR). Methods approved for *E. coli* in drinking water are listed at 40 CFR 141.21(f)(6) under the TCR, at 40 CFR 141.402(c)(2) under the Ground Water Rule (GWR), and at 40 CFR 141.852(a)(5) under the RTCR. Tecta EC/TC is similar to other approved drinking water methods except that it uses hydrophobic fluorogens for total coliforms and *E. coli* which adhere to a hydrophobic plastic stub. These fluorogens emit fluorescent light into the interior of the stub when illuminated by ultraviolet light. The fluorescence from the fluorogens is detected by a photometer adjacent to the stub. The incubation temperature maintenance, incubation timing, and fluorescence detection and results recording are all performed by an automated instrument. Tecta EC/TC is able to detect total coliforms and *E. coli* in 18 hours. Reagents and sample incubation containers are available, which can be used with the Tecta EC/TC incubator/detector. An Alternative Test Procedure (ATP) study was conducted to compare the method performance of Tecta EC/TC to the performance of the approved methods Standard Methods 9221 B (LTB/BGLB for total coliforms) and 9221 F (LTB/EC—MUG for *E. coli*) (APHA 1998). The comparison study involved analyses of 200 drinking water samples—20 replicate samples that were inoculated with very low densities of chlorine-stressed total coliforms or *E. coli* obtained from 10 geographically dispersed waste waters. Method specificity was evaluated using approximately 100 positive and 100 negative cultures as determined from analyses by the reference methods. The ATP validation study report (Veolia 2014b) details the study design and method data evaluation. EPA has determined that Tecta EC/TC is equally effective relative to the approved Standard Method 9221 B for total coliforms under the TCR and RTCR, and Standard Method 9221 F for *E. coli* under the TCR, GWR, and RTCR. The basis for this determination is discussed in Sinclair (2014). Therefore, EPA is approving the Tecta EC/TC method for determining total coliforms and *E. coli* in drinking water. Tecta EC/TC is an automated and self-contained method, but is subject to the requirements for certified laboratories described in CFR 141.28.

A copy of the Tecta EC/TC method is available from Veolia Water Solutions

and Technologies, Suite 4697, Biosciences Complex, 116 Barrie Street, Kingston, Ontario, Canada K7L 3N6.

#### IV. Statutory and Executive Order Reviews

As noted in Section II, under the terms of SDWA Section 1401(1), this streamlined method approval action is not a rule. Accordingly, the Congressional Review Act, 5 U.S.C. 801 et seq., as added by the Small Business Regulatory Enforcement Fairness Act of 1996, does not apply because this action is not a rule for purposes of 5 U.S.C. 804(3). Similarly, this action is not subject to the Regulatory Flexibility Act because it is not subject to notice and comment requirements under the Administrative Procedure Act or any other statute. In addition, because this approval action is not a rule but simply makes alternative testing methods available as options for monitoring under SDWA, EPA has concluded that other statutes and executive orders generally applicable to rulemaking do not apply to this approval action.

#### V. References

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- American Public Health Association (APHA). 1998. *20th Edition of Standard Methods for the Examination of Water and Wastewater*, American Public Health Association, 800 I Street NW., Washington, DC 20001–3710.
- American Public Health Association (APHA). 1999. Standard Method 3113 B–99. Electrothermal Atomic Absorption Spectrometric Method. Approved by Standard Methods Committee 1999. Standard Methods Online. (Available at <http://www.standardmethods.org>.)
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Hach Company. 2013b. Hach Company Method 10260—Alternate Test Procedure (ATP) Validation Study Report for Free and Total Chlorine using Disposable “Planar” Reagent-Filled Cuvettes. August 2013. 5600 Lindbergh Drive, P.O. Box 389, Loveland, CO 80539. (Available at <http://www.hach.com>.)

Palintest Ltd. 2013. Palintest ChlordioX Plus Method—Chlorine Dioxide and Chlorite in Drinking Water by Amperometry using Disposable Sensors. November 2013. 1455 Jamike Avenue (Suite 100), Erlanger, KY 41018.

Sinclair, J. 2014. Memo to the record describing basis for expedited approval of Tecta EC/TC. April 9, 2014.

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Veolia. 2014b. ATP Study Report for the Proposed US EPA Approval of ENDETEC (Tecta EC/TC), an Automated Method for Detecting Total Coliforms and *E. coli* in Drinking Water, under the USEPA

Microbiological Alternate Test Procedure (ATP) Study Report ATP Case Number D11-0005. Originally submitted June 12, 2013, revised January 30, 2014. Veolia Water Solutions and Technologies, Suite 4697, Biosciences Complex, 116 Barrie Street, Kingston, Ontario, Canada K7L 3N6.

**List of Subjects in 40 CFR Part 141**

Environmental protection, Chemicals, Indians-lands, Intergovernmental relations, Radiation protection, Reporting and recordkeeping requirements, Water supply.

Dated: June 3, 2014.

**Peter Grevatt,**

*Director, Office of Ground Water and Drinking Water.*

For the reasons stated in the preamble, 40 CFR part 141 is amended as follows:

**PART 141—NATIONAL PRIMARY DRINKING WATER REGULATIONS**

■ 1. The authority citation for part 141 continues to read as follows:

**Authority:** 42 U.S.C. 300f, 300g–1, 300g–2, 300g–3, 300g–4, 300g–5, 300g–6, 300j–4, 300j–9, and 300j–11.

■ 2. Appendix A to Subpart C of Part 141 is amended as follows:

■ a. By revising the table entitled “ALTERNATIVE TESTING METHODS FOR CONTAMINANTS LISTED AT 40 CFR 141.21(f)(3).”

■ b. By revising the table entitled “ALTERNATIVE TESTING METHODS FOR CONTAMINANTS LISTED AT 40 CFR 141.21(f)(5).”

■ c. By revising the table entitled “ALTERNATIVE TESTING METHODS FOR CONTAMINANTS LISTED AT 40 CFR 141.21(f)(6).”

■ d. By revising entries for “Antimony,” “Arsenic,” “Barium,” “Beryllium,” “Cadmium,” “Chromium,” “Copper,” “Fluoride,” “Lead,” “Mercury,” “Nickel,” “Nitrate,” “Nitrite,” “Orthophosphate,” “Selenium,” and “Temperature” in the table entitled “ALTERNATIVE TESTING METHODS FOR CONTAMINANTS LISTED AT 40 CFR 141.23(k)(1).”

■ e. By revising entries for “2,4-D,” “2,4,5-TP (Silvex),” “Dalapon,”

“Dinoseb,” “Glyphosate,” “Pentachlorophenol,” and “Picloram” in the table entitled “ALTERNATIVE TESTING METHODS FOR CONTAMINANTS LISTED AT 40 CFR 141.24(e)(1).”

■ f. By revising the table entitled “ALTERNATIVE TESTING METHODS FOR CONTAMINANTS LISTED AT 40 CFR 141.74(a)(1).”

■ g. By revising entries for “Free Chlorine,” “Total Chlorine,” and “Chlorine Dioxide” in the table entitled “ALTERNATIVE TESTING METHODS FOR DISINFECTANT RESIDUALS LISTED AT 40 CFR 141.74(a)(2).”

■ h. By revising the table entitled “ALTERNATIVE TESTING METHODS FOR CONTAMINANTS LISTED AT 40 CFR 141.131(b)(1).”

■ i. By revising the table entitled “ALTERNATIVE TESTING METHODS FOR DISINFECTANT RESIDUALS LISTED AT 40 CFR 141.131(c)(1).”

■ j. By revising the table entitled “ALTERNATIVE TESTING METHODS FOR PARAMETERS LISTED AT 40 CFR 141.131(d).”

■ k. By revising the entry for “E. coli” in the table entitled “ALTERNATIVE TESTING METHODS FOR CONTAMINANTS LISTED AT 40 CFR 141.402(c)(2).”

■ l. By revising the table entitled “ALTERNATIVE TESTING METHODS FOR CONTAMINANTS LISTED AT 40 CFR 141.852(a)(5).”

■ m. By revising entries for “Aluminum,” “Chloride,” “Iron,” “Manganese,” “Silver,” and “Sulfate” in the table entitled “ALTERNATIVE TESTING METHODS FOR CONTAMINANTS LISTED AT 40 CFR 143.4(b).”

■ n. By revising footnotes 17 and 23.

■ o. By adding footnotes 31 through 33 to the table.

The additions and revisions read as follows:

**APPENDIX A TO SUBPART C OF PART 141—ALTERNATIVE TESTING METHODS APPROVED FOR ANALYSES UNDER THE SAFE DRINKING WATER ACT**

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**ALTERNATIVE TESTING METHODS FOR CONTAMINANTS LISTED AT 40 CFR 141.21(f)(3)**

Organism	Methodology	SM 21st Edition <sup>1</sup>	SM 22nd Edition <sup>28</sup>	SM Online <sup>3</sup>	Other
Total Coliforms .....	Total Coliform Fermentation Technique.	9221 A, B .....	9221 A, B .....	9221 A,B-06 .....	
	Total Coliform Membrane Filter Technique.	9222 A, B, C .....	.....	.....	

ALTERNATIVE TESTING METHODS FOR CONTAMINANTS LISTED AT 40 CFR 141.21(f)(3)—Continued

Organism	Methodology	SM 21st Edition <sup>1</sup>	SM 22nd Edition <sup>28</sup>	SM Online <sup>3</sup>	Other
	Presence-Absence (P-A) Coliform Test.	9221 D .....	.....	.....	Modified Colitag™ <sup>13</sup>
	ONPG-MUG Test ....	9223 .....	9223 B .....	9223 B-04 .....	
	Colitag™ .....	.....	.....	.....	
	Tecta EC/TC <sup>33</sup> .....	.....	.....	.....	

ALTERNATIVE TESTING METHODS FOR CONTAMINANTS LISTED AT 40 CFR 141.21(f)(5)

Organism	Methodology	SM 22nd Edition <sup>28</sup>	SM Online <sup>3</sup>
Fecal Coliforms .....	Fecal Coliform Procedure .....	9221 E .....	9221 E-06

ALTERNATIVE TESTING METHODS FOR CONTAMINANTS LISTED AT 40 CFR 141.21(f)(6)

Organism	Methodology	SM 20th Edition <sup>6</sup>	SM 21st Edition <sup>1</sup>	SM 22nd Edition <sup>28</sup>	SM Online <sup>3</sup>	Other
<i>E. coli</i> .....	ONPG-MUG Test Colitag™ .....	9223 B .....	9223 B .....	9223 B .....	9223 B-97, B-04 .....	Modified Colitag™ <sup>13</sup>
	Tecta EC/TC <sup>33</sup> .....	.....	.....	.....	.....	

ALTERNATIVE TESTING METHODS FOR CONTAMINANTS LISTED AT 40 CFR 141.23(k)(1)

Contaminant	Methodology	EPA Method	SM 21st Edition <sup>1</sup>	SM 22nd Edition <sup>28</sup>	SM Online <sup>3</sup>	ASTM <sup>4</sup>	Other
* Antimony .....	* Hydride—Atomic Absorption. ..... Atomic Absorption; Furnace. ..... Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES). .....	* ..... 200.5, Revision 4.2 <sup>2</sup> . .....	* ..... 3113 B .....	* ..... 3113 B .....	* ..... 3113 B-04, B-10. .....	* ..... D 3697-07 .....	* .....
Arsenic .....	Atomic Absorption; Furnace. ..... Hydride Atomic Absorption. ..... Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES). .....	..... 200.5, Revision 4.2 <sup>2</sup> . .....	3113 B .....	3113 B .....	3113 B-04, B-10. ..... 3114 B-09 .....	D 2972-08 C .. ..... D 2972-08 B ...	
Barium .....	Inductively Coupled Plasma. ..... Atomic Absorption; Direct. ..... Atomic Absorption; Furnace. ..... Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES). .....	..... 200.5, Revision 4.2 <sup>2</sup> . .....	3120 B .....	3120 B .....	..... ..... 3113 B .....	..... ..... 3113 B-04, B-10. .....	

ALTERNATIVE TESTING METHODS FOR CONTAMINANTS LISTED AT 40 CFR 141.23(k)(1)—Continued

Contaminant	Methodology	EPA Method	SM 21st Edition <sup>1</sup>	SM 22nd Edition <sup>28</sup>	SM Online <sup>3</sup>	ASTM <sup>4</sup>	Other
Beryllium .....	Inductively Coupled Plasma. Atomic Absorption; Furnace.	.....	3120 B .....	3120 B .....	.....	.....	
	Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES).	200.5, Revision 4.2 <sup>2</sup> .	3113 B .....	3113 B .....	3113 B-04, B-10.	D 3645-08 B ...	
Cadmium .....	Atomic Absorption; Furnace.	.....	3113 B .....	3113 B .....	3113 B-04, B-10.	.....	
	Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES).	200.5, Revision 4.2 <sup>2</sup> .	.....	.....	.....	.....	
* Chromium .....	* Inductively Coupled Plasma. Atomic Absorption; Furnace.	* .....	* 3120 B .....	* 3120 B .....	* .....	* .....	* .....
	Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES).	200.5, Revision 4.2 <sup>2</sup> .	3113 B .....	3113 B .....	3113 B-04, B-10.	.....	
Copper .....	Atomic Absorption; Furnace.	.....	3113 B .....	3113 B .....	3113 B-04, B-10.	D 1688-07 C ..	
	Atomic Absorption; Direct Aspiration.	.....	3111 B .....	3111 B .....	.....	D 1688-07 A ...	
	Inductively Coupled Plasma.	.....	3120 B .....	3120 B .....	.....	.....	
	Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES).	200.5, Revision 4.2 <sup>2</sup> .	.....	.....	.....	.....	
* Fluoride .....	* Ion Chromatography. Manual Distillation; Colorimetric SPADNS.	* .....	* 4110 B .....	* 4110 B .....	* .....	* D 4327-11 .....	
	Manual Electrode.	.....	4500-F <sup>-</sup> B, D	4500-F <sup>-</sup> B, D	.....	.....	
	Automated Alizarin.	.....	4500-F <sup>-</sup> C	4500-F <sup>-</sup> C	.....	D 1179-04, 10 B.	
	Arsenite-Free Colorimetric SPADNS.	.....	4500-F <sup>-</sup> E	4500-F <sup>-</sup> E	.....	.....	Hach SPADNS 2 Method 10225 <sup>22</sup>
Lead .....	Atomic Absorption; Furnace.	.....	3113 B .....	3113 B .....	3113 B-04, B-10.	D 3559-08 D ..	

ALTERNATIVE TESTING METHODS FOR CONTAMINANTS LISTED AT 40 CFR 141.23(k)(1)—Continued

Contaminant	Methodology	EPA Method	SM 21st Edition <sup>1</sup>	SM 22nd Edition <sup>28</sup>	SM Online <sup>3</sup>	ASTM <sup>4</sup>	Other
	Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES).	200.5, Revision 4.2 <sup>2</sup> .	.....	.....	.....	.....	
Mercury	Manual, Cold Vapor.	.....	3112 B	3112 B	3112 B-09	D 3223-12	
Nickel	Inductively Coupled Plasma. Atomic Absorption; Direct.	.....	3120 B	3120 B	.....	.....	
	Atomic Absorption; Furnace.	.....	3111 B	3111 B	.....	.....	
	Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES).	200.5, Revision 4.2 <sup>2</sup> .	.....	.....	.....	.....	
Nitrate	Ion Chromatography.	.....	4110 B	4110 B	.....	D 4327-11	
	Automated Cadmium Reduction.	.....	4500-NO <sub>3</sub> <sup>-</sup> F	4500-NO <sub>3</sub> <sup>-</sup> F	.....	.....	
	Manual Cadmium Reduction.	.....	4500-NO <sub>3</sub> <sup>-</sup> E	4500-NO <sub>3</sub> <sup>-</sup> E	.....	.....	
	Ion Selective Electrode.	.....	4500-NO <sub>3</sub> <sup>-</sup> D	4500-NO <sub>3</sub> <sup>-</sup> D	.....	.....	
	Reduction/Colorimetric.	.....	.....	.....	.....	.....	Systema Easy (1-Reagent) <sup>8</sup>
	Colorimetric; Direct.	.....	.....	.....	.....	.....	Hach TNTplus™ 835/836 Method 10206 <sup>23</sup>
Nitrite	Ion Chromatography.	.....	4110 B	4110 B	.....	D 4327-11	
	Automated Cadmium Reduction.	.....	4500-NO <sub>3</sub> <sup>-</sup> F	4500-NO <sub>3</sub> <sup>-</sup> F	.....	.....	
	Manual Cadmium Reduction.	.....	4500-NO <sub>3</sub> <sup>-</sup> E	4500-NO <sub>3</sub> <sup>-</sup> E	.....	.....	
	Spectrophotometric.	.....	4500-NO <sub>2</sub> <sup>-</sup> B	4500-NO <sub>2</sub> <sup>-</sup> B	.....	.....	
	Reduction/Colorimetric.	.....	.....	.....	.....	.....	Systema Easy (1-Reagent) <sup>8</sup>
Orthophosphate	Ion Chromatography.	.....	4110 B	4110 B	.....	D 4327-11	
	Colorimetric, ascorbic acid, single reagent.	.....	4500-P E	4500-P E	4500-P E-99	.....	
	Colorimetric, Automated, Ascorbic Acid.	.....	4500-P F	4500-P F	4500-P F-99	.....	
Selenium	Hydride-Atomic Absorption.	.....	3114 B	3114 B	3114 B-09	D 3859-08 A	
	Atomic Absorption; Furnace.	.....	3113 B	3113 B	3113 B-04, B-10.	D 3859-08 B	

ALTERNATIVE TESTING METHODS FOR CONTAMINANTS LISTED AT 40 CFR 141.23(k)(1)—Continued

Contaminant	Methodology	EPA Method	SM 21st Edition <sup>1</sup>	SM 22nd Edition <sup>28</sup>	SM Online <sup>3</sup>	ASTM <sup>4</sup>	Other
	Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES).	200.5, Revision 4.2 <sup>2</sup> .	.....	.....	.....	.....	*
* Temperature .....	* Thermometric ..	* .....	* 2550 .....	* 2550 .....	* 2550-10 .....	* .....	* .....

ALTERNATIVE TESTING METHODS FOR CONTAMINANTS LISTED AT 40 CFR 141.24 (e)(1)

Contaminant	Methodology	EPA method	SM 21st Edition <sup>1</sup>	SM 22nd Edition <sup>28</sup>	SM Online <sup>3</sup>
* 2,4-D .....	* Gas Chromatography/Electron Capture Detection (GC/ECD).	* .....	* 6640 B .....	* 6640 B .....	* 6640 B-01, B-06.
* 2,4,5-TP (Silvex) .....	* Gas Chromatography/Electron Capture Detection (GC/ECD).	* .....	* 6640 B .....	* 6640 B .....	* 6640 B-01, B-06.
* Dalapon .....	* Ion Chromatography Electrospray Ionization Tandem Mass Spectrometry (IC-ESI-MS/MS). Gas Chromatography/Electron Capture Detection (GC/ECD).	* 557 <sup>14</sup> .....	* 6640 B .....	* 6640 B .....	* 6640 B-01, B-06.
* Dinoseb .....	* Gas Chromatography/Electron Capture Detection (GC/ECD).	* .....	* 6640 B .....	* 6640 B .....	* 6640 B-01, B-06.
* Glyphosate .....	* High-Performance Liquid Chromatography (HPLC) with Post-Column Derivatization and Fluorescence Detection.	* .....	* 6651 B .....	* 6651 B .....	* 6651 B-00, B-05.
* Pentachlorophenol .....	* Gas Chromatography/Electron Capture Detection (GC/ECD). Solid Phase Extraction/Gas Chromatography/Mass Spectrometry (GC/MS).	* 525.3 <sup>24</sup> .....	* 6640 B .....	* 6640 B .....	* 6640 B-01, B-06.
* Picloram .....	* Gas Chromatography/Electron Capture Detection (GC/ECD).	* .....	* 6640 B .....	* 6640 B .....	* 6640 B-01, B-06.

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ALTERNATIVE TESTING METHODS FOR CONTAMINANTS LISTED AT 40 CFR 141.74(a)(1)

Organism	Methodology	SM 21st Edition <sup>1</sup>	SM 22nd Edition <sup>28</sup>	SM Online <sup>3</sup>	Other
Total Coliform .....	Total Coliform Fermentation Technique.	9221 A, B, C .....	9221 A, B, C .....	9221 A,B,C-06 .....	
	Total Coliform Membrane Filter Technique.	9222 A, B, C .....	.....	.....	
Fecal Coliforms .....	ONPG-MUG Test .....	9223 .....	9223 B .....	9223 B-04 .....	
	Fecal Coliform Procedure.	9221 E .....	9221 E .....	9221 E-06 .....	

ALTERNATIVE TESTING METHODS FOR CONTAMINANTS LISTED AT 40 CFR 141.74(a)(1)—Continued

Organism	Methodology	SM 21st Edition <sup>1</sup>	SM 22nd Edition <sup>28</sup>	SM Online <sup>3</sup>	Other
Heterotrophic bacteria Turbidity .....	Fecal Coliform Filter Procedure.	9222 D .....	9222 D .....	9222 D-06 .....	
	Pour Plate Method .....	9215 B .....	9215 B .....	9215 B-04 .....	
	Nephelometric Method	2130 B .....	2130 B .....		
	Laser Nephelometry (on-line).				Mitchell M5271. <sup>10</sup>
	LED Nephelometry (on-line).				Mitchell M5331. <sup>11</sup>
	LED Nephelometry (on-line).				AMI Turbiwell. <sup>15</sup>
	LED Nephelometry (portable).				Orion AQ4500. <sup>12</sup>

ALTERNATIVE TESTING METHODS FOR DISINFECTANT RESIDUALS LISTED AT 40 CFR 141.74(a)(2)

Residual	Methodology	SM 21st Edition <sup>1</sup>	SM 22nd Edition <sup>28</sup>	ASTM <sup>4</sup>	Other
Free Chlorine .....	Amperometric Titration	4500-CI D .....	4500-CI D .....	D 1253-08 .....	
	DPD Ferrous Titrimetric.	4500-CI F .....	4500-CI F .....		
	DPD Colorimetric .....	4500-CI G .....	4500-CI G .....		Hach Method 10260. <sup>31</sup>
	Syringaldazine (FACTS).	4500-CI H .....	4500-CI H .....		
Total Chlorine .....	On-line Chlorine Analyzer.				EPA 334.0. <sup>16</sup>
	Amperometric Sensor				ChloroSense. <sup>17</sup>
	Amperometric Titration	4500-CI D .....	4500-CI D .....	D 1253-08 .....	
	Amperometric Titration (Low level measurement).	4500-CI E .....	4500-CI E .....		
	DPD Ferrous Titrimetric.	4500-CI F .....	4500-CI F .....		
	DPD Colorimetric .....	4500-CI G .....	4500-CI G .....		Hach Method 10260. <sup>31</sup>
Chlorine Dioxide .....	Iodometric Electrode ..	4500-CI I .....	4500-CI I .....		
	On-line Chlorine Analyzer.				EPA 334.0. <sup>16</sup>
	Amperometric Sensor				ChloroSense. <sup>17</sup>
	Amperometric Titration	4500-ClO <sub>2</sub> C .....	4500-ClO <sub>2</sub> C .....		
	Amperometric Titration	4500-ClO <sub>2</sub> E .....	4500-ClO <sub>2</sub> E .....		
	Amperometric Sensor				ChlordioX Plus. <sup>32</sup>
*	*	*	*	*	*

ALTERNATIVE TESTING METHODS FOR CONTAMINANTS LISTED AT 40 CFR 141.131(b)(1)

Contaminant	Methodology	EPA Method	ASTM <sup>4</sup>	SM Online <sup>3</sup>	SM 21st Edition <sup>1</sup>	SM 22nd Edition <sup>28</sup>	Other
TTHM .....	P&T/GC/MS .....	524.3 <sup>9</sup> , 524.4 <sup>29</sup>					
HAA5 .....	LLE (diazo-methane)/GC/ECD.			6251 B-07 ...	6251 B .....	6251 B .....	
	Ion Chromatography Electrospray Ionization Tandem Mass Spectrometry (IC-ESI-MS/MS).	557 <sup>14</sup> .....					
Bromate .....	Two-Dimensional Ion Chromatography (IC).	302.0 <sup>18</sup> .....					

ALTERNATIVE TESTING METHODS FOR CONTAMINANTS LISTED AT 40 CFR 141.131(b)(1)—Continued

Contaminant	Methodology	EPA Method	ASTM <sup>4</sup>	SM Online <sup>3</sup>	SM 21st Edition <sup>1</sup>	SM 22nd Edition <sup>28</sup>	Other
Chlorite .....	Ion Chroma- tography Electrospray Ionization Tandem Mass Spectrometry (IC-ESI-MS/ MS).	557 <sup>14</sup> .....	.....	.....	.....	.....	
	Chemically Sup- pressed Ion Chroma- tography.	.....	D 6581-08 A	.....	.....	.....	
	Electrolytically Suppressed Ion Chroma- tography.	.....	D 6581-08 B	.....	.....	.....	
	Chemically Sup- pressed Ion Chroma- tography.	.....	D 6581-08 A	.....	.....	.....	
	Electrolytically Suppressed Ion Chroma- tography.	.....	D 6581-08 B	.....	.....	.....	
Chlorite—daily monitoring as prescribed in 40 CFR 141. 132(b)(2)(i)(A).	Amperometric Titration.	.....	.....	.....	4500-ClO <sub>2</sub> E ...	4500-ClO <sub>2</sub> E ...	
	Amperometric Sensor.	.....	.....	.....	.....	.....	ChlordioX Plus. <sup>32</sup>

ALTERNATIVE TESTING METHODS FOR DISINFECTANT RESIDUALS LISTED AT 40 CFR 141.131(c)(1)

Residual	Methodology	SM 21st Edition <sup>1</sup>	SM 22nd Edition <sup>28</sup>	ASTM <sup>4</sup>	Other
Free Chlorine .....	Amperometric Titra- tion.	4500-Cl D .....	4500-Cl D .....	D 1253-08 .....	
	DPD Ferrous Titrimetric.	4500-Cl F .....	4500-Cl F .....	.....	
	DPD Colorimetric ....	4500-Cl G .....	4500-Cl G .....	.....	Hach Method 10260 <sup>31</sup> .
	Syringaldazine (FACTS).	4500-Cl H .....	4500-Cl H .....	.....	
	Amperometric Sen- sor.	.....	.....	.....	ChloroSense <sup>17</sup> .
Combined Chlorine ....	On-line Chlorine An- alyzer.	.....	.....	.....	EPA 334.0 <sup>16</sup> .
	Amperometric Titra- tion.	4500-Cl D .....	4500-Cl D .....	D 1253-08 .....	
Total Chlorine .....	DPD Ferrous Titrimetric.	4500-Cl F .....	4500-Cl F .....	.....	
	DPD Colorimetric ....	4500-Cl G .....	4500-Cl G .....	.....	Hach Method 10260 <sup>31</sup> .
	Amperometric Titra- tion.	4500-Cl D .....	4500-Cl D .....	D 1253-08 .....	
	Low level Ampero- metric Titration.	4500-Cl E .....	4500-Cl E .....	.....	
	DPD Ferrous Titrimetric.	4500-Cl F .....	4500-Cl F .....	.....	
Chlorine Dioxide .....	DPD Colorimetric ....	4500-Cl G .....	4500-Cl G .....	.....	Hach Method 10260 <sup>31</sup> .
	Iodometric Electrode	4500-Cl I .....	4500-Cl I .....	.....	
	Amperometric Sen- sor.	.....	.....	.....	ChloroSense <sup>17</sup> .
	On-line Chlorine An- alyzer.	.....	.....	.....	EPA 334.0 <sup>16</sup> .
Chlorine Dioxide .....	Amperometric Meth- od II.	4500-ClO <sub>2</sub> E .....	4500-ClO <sub>2</sub> E .....	.....	
	Amperometric Sen- sor.	.....	.....	.....	ChlordioX Plus <sup>32</sup> .

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ALTERNATIVE TESTING METHODS FOR PARAMETERS LISTED AT 40 CFR 141.131(d)

Parameter	Methodology	SM 21st Edition <sup>1</sup>	SM 22nd Edition <sup>28</sup>	SM Online <sup>3</sup>	EPA
Total Organic Carbon (TOC).	High Temperature Combustion.	5310 B .....	5310 B .....	.....	415.3, Rev 1.2 <sup>19</sup> .
	Persulfate-Ultraviolet or Heated Persulfate Oxidation.	5310 C .....	5310 C .....	.....	415.3, Rev 1.2 <sup>19</sup> .
	Wet Oxidation .....	5310 D .....	5310 D .....	.....	415.3, Rev 1.2 <sup>19</sup> .
Specific Ultraviolet Absorbance (SUVA).	Calculation using DOC and UV <sub>254</sub> data.	.....	.....	.....	415.3, Rev 1.2 <sup>19</sup> .
	High Temperature Combustion.	5310 B .....	5310 B .....	.....	415.3, Rev 1.2 <sup>19</sup> .
Dissolved Organic Carbon (DOC).	Persulfate-Ultraviolet or Heated Persulfate Oxidation.	5310 C .....	5310 C .....	.....	415.3, Rev 1.2 <sup>19</sup> .
	Wet Oxidation .....	5310 D .....	5310 D .....	.....	415.3, Rev 1.2 <sup>19</sup> .
Ultraviolet absorption at 254 nm (UV <sub>254</sub> ).	Spectrophotometry ...	5910 B .....	5910 B .....	5910 B-11 .....	415.3, Rev 1.2 <sup>19</sup> .
					415.3, Rev 1.2 <sup>19</sup> .

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ALTERNATIVE TESTING METHODS FOR CONTAMINANTS LISTED AT 40 CFR 141.402(c)(2)

Organism	Methodology	SM 20th Edition <sup>6</sup>	SM 21st Edition <sup>1</sup>	SM 22nd Edition <sup>28</sup>	SM Online <sup>3</sup>	Other
<i>E. coli</i> .....	Colilert® .....	.....	9223 B .....	9223 B .....	9223 B-97, B-04	Readycult® <sup>20</sup> , Modified Colitag™ <sup>13</sup> , Chromocult® <sup>21</sup> .
	Colisure® .....	.....	9223 B .....	9223 B .....	9223 B-97, B-04	
	Colilert-18 .....	9223 B .....	9223 B .....	9223 B .....	9223 B-97, B-04	
	Readycult® .....	.....	.....	.....	.....	
	Colitag .....	.....	.....	.....	.....	
	Chromocult® .....	.....	.....	.....	.....	
	EC-MUG .....	.....	.....	9221 F .....	9221 F-06 .....	
Tecta EC/TC <sup>33</sup> ..	.....	.....	.....	.....		

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ALTERNATIVE TESTING METHODS FOR CONTAMINANTS LISTED AT 40 CFR 141.852(a)(5)

Organism	Methodology Category	Method	SM 20th, 21st Editions <sup>1,6</sup>	SM 22nd Edition <sup>28</sup>	SM Online <sup>3</sup>
Total Coliforms .....	Lactose Fermentation Methods.	Standard Total Coliform Fermentation Technique.	.....	9221 B.1, B.2 .....	9221 B.1, B.2-06.
	Enzyme Substrate Methods.	Colilert® .....	.....	9223 B .....	9223 B-04.
	Colilert-18 .....	Colisure® .....	.....	9223 B .....	9223 B-04.
<i>Escherichia coli</i> .....	Enzyme Substrate Methods.	Tecta EC/TC <sup>33</sup> .....	.....	.....	.....
		EC-MUG medium ....	.....	9221 F.1 .....	9221 F.1-06.
	Enzyme Substrate Methods.	Colilert® .....	.....	9223 B .....	9223 B-04.
	.....	Colisure® .....	.....	9223 B .....	9223 B-04.
	.....	Colilert-18® .....	9223 B .....	9223 B .....	9223 B-04.
.....	Tecta EC/TC <sup>33</sup> .....	.....	.....	.....	

ALTERNATIVE TESTING METHODS FOR CONTAMINANTS LISTED AT 40 CFR 143.4(b)

Contaminant	Methodology	EPA Method	ASTM <sup>4</sup>	SM 21st Edition <sup>1</sup>	SM 22nd Edition <sup>28</sup>	SM Online <sup>3</sup>
Aluminum	Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES).	200.5, Revision 4.2 <sup>2</sup> .				
	Atomic Absorption; Direct.			3111 D	3111 D	
	Atomic Absorption; Furnace. Inductively Coupled Plasma.			3113 B 3120 B	3113 B 3120 B	3113 B-04, B-10.
Chloride	Silver Nitrate Titration.		D 512-04 B, 12 B	4500-Cl <sup>-</sup> B	4500-Cl <sup>-</sup> B	
	Ion Chromatography.		D 4327-11	4110 B	4110 B	
	Potentiometric Titration.			4500-Cl <sup>-</sup> D	4500-Cl <sup>-</sup> D	
*	*	*	*	*	*	*
Iron	Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES).	200.5, Revision 4.2 <sup>2</sup> .				
	Atomic Absorption; Direct.			3111 B	3111 B	
	Atomic Absorption; Furnace. Inductively Coupled Plasma.			3113 B 3120 B	3113 B 3120 B	3113 B-04, B-10.
Manganese	Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES).	200.5, Revision 4.2 <sup>2</sup> .				
	Atomic Absorption; Direct.			3111 B	3111 B	
	Atomic Absorption; Furnace. Inductively Coupled Plasma.			3113 B 3120 B	3113 B 3120 B	3113 B-04, B-10.
*	*	*	*	*	*	*
Silver	Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES).	200.5, Revision 4.2 <sup>2</sup> .				
	Atomic Absorption; Direct.			3111 B	3111 B	
	Atomic Absorption; Furnace. Inductively Coupled Plasma.			3113 B 3120 B	3113 B 3120 B	3113 B-04, B-10.
Sulfate	Ion Chromatography.		D 4327-11	4110 B	4110 B	
	Gravimetric with ignition of residue.			4500-SO <sub>4</sub> <sup>2-</sup> C	4500-SO <sub>4</sub> <sup>2-</sup> C	4500-SO <sub>4</sub> <sup>2-</sup> C-97

## ALTERNATIVE TESTING METHODS FOR CONTAMINANTS LISTED AT 40 CFR 143.4(b)—Continued

Contaminant	Methodology	EPA Method	ASTM <sup>4</sup>	SM 21st Edition <sup>1</sup>	SM 22nd Edition <sup>28</sup>	SM Online <sup>3</sup>
	Gravimetric with drying of residue.	.....	.....	4500-SO <sub>4</sub> <sup>2-</sup> D ..	4500-SO <sub>4</sub> <sup>2-</sup> D ..	4500-SO <sub>4</sub> <sup>2-</sup> D-97
	Turbidimetric method.	.....	D 516–07, 11 .....	4500-SO <sub>4</sub> <sup>2-</sup> E ...	4500-SO <sub>4</sub> <sup>2-</sup> E ...	4500-SO <sub>4</sub> <sup>2-</sup> E-97
	Automated methylthymol blue method.	.....	.....	4500-SO <sub>4</sub> <sup>2-</sup> F ...	4500-SO <sub>4</sub> <sup>2-</sup> F ...	4500-SO <sub>4</sub> <sup>2-</sup> F-97
*	*	*	*	*	*	*

<sup>1</sup> *Standard Methods for the Examination of Water and Wastewater*, 21st edition (2005). Available from American Public Health Association, 800 I Street NW., Washington, DC 20001–3710.

<sup>2</sup> EPA Method 200.5, Revision 4.2. “Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma-Atomic Emission Spectrometry,” 2003. EPA/600/R–06/115. (Available at <http://www.epa.gov/nerlcwww/ordmeth.htm>.)

<sup>3</sup> Standard Methods Online are available at <http://www.standardmethods.org>. The year in which each method was approved by the Standard Methods Committee is designated by the last two digits in the method number. The methods listed are the only online versions that may be used.

<sup>4</sup> Available from ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA 19428–2959 or <http://astm.org>. The methods listed are the only alternative versions that may be used.

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<sup>6</sup> *Standard Methods for the Examination of Water and Wastewater*, 20th edition (1998). Available from American Public Health Association, 800 I Street NW., Washington, DC 20001–3710.

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<sup>8</sup> Systea Easy (1-Reagent). “Systea Easy (1-Reagent) Nitrate Method,” February 4, 2009. Available at <https://www.nemi.gov> or from Systea Scientific, LLC., 900 Jorie Blvd., Suite 35, Oak Brook, IL 60523.

<sup>9</sup> EPA Method 524.3, Version 1.0. “Measurement of Purgeable Organic Compounds in Water by Capillary Column Gas Chromatography/Mass Spectrometry,” June 2009. EPA 815–B–09–009. Available at <http://water.epa.gov/drink/>.

<sup>10</sup> Mitchell Method M5271, Revision 1.1. “Determination of Turbidity by Laser Nephelometry,” March 5, 2009. Available at <https://www.nemi.gov> or from Leck Mitchell, Ph.D., PE, 656 Independence Valley Dr., Grand Junction, CO 81507.

<sup>11</sup> Mitchell Method M5331, Revision 1.1. “Determination of Turbidity by LED Nephelometry,” March 5, 2009. Available at <https://www.nemi.gov> or from Leck Mitchell, Ph.D., PE, 656 Independence Valley Dr., Grand Junction, CO 81507.

<sup>12</sup> Orion Method AQ4500, Revision 1.0. “Determination of Turbidity by LED Nephelometry,” May 8, 2009. Available at <https://www.nemi.gov> or from Thermo Scientific, 166 Cummings Center, Beverly, MA 01915, <http://www.thermo.com>.

<sup>13</sup> Modified Colitag™ Method. “Modified Colitag™ Test Method for the Simultaneous Detection of *E. coli* and other Total Coliforms in Water (ATP D05–0035),” August 28, 2009. Available at <https://www.nemi.gov> or from CPI International, 5580 Skylane Boulevard, Santa Rosa, CA 95403.

<sup>14</sup> EPA Method 557. “Determination of Haloacetic Acids, Bromate, and Dalapon in Drinking Water by Ion Chromatography Electrospray Ionization Tandem Mass Spectrometry (IC–ESI–MS/MS),” September 2009. EPA 815–B–09–012. Available at <http://water.epa.gov/drink/>.

<sup>15</sup> AMI Turbiwell. “Continuous Measurement of Turbidity Using a SWAN AMI Turbiwell Turbidimeter,” August 2009. Available at <https://www.nemi.gov> or from Markus Bernasconi, SWAN Analytische Instrumente AG, Studbachstrasse 13, CH–8340 Hinwil, Switzerland.

<sup>16</sup> EPA Method 334.0. “Determination of Residual Chlorine in Drinking Water Using an On-line Chlorine Analyzer,” September 2009. EPA 815–B–09–013. Available at <http://water.epa.gov/drink/>.

<sup>17</sup> ChloroSense. “Measurement of Free and Total Chlorine in Drinking Water by Palintest ChloroSense,” August 2009. Available at <https://www.nemi.gov> or from Palintest Ltd, 1455 Jamike Avenue (Suite 100), Erlanger, KY 41018.

<sup>18</sup> EPA Method 302.0. “Determination of Bromate in Drinking Water using Two-Dimensional Ion Chromatography with Suppressed Conductivity Detection,” September 2009. EPA 815–B–09–014. Available at <http://water.epa.gov/drink/>.

<sup>19</sup> EPA 415.3, Revision 1.2. “Determination of Total Organic Carbon and Specific UV Absorbance at 254 nm in Source Water and Drinking Water,” September 2009. EPA/600/R–09/122. Available at <http://www.epa.gov/nerlcwww/ordmeth.htm>.

<sup>20</sup> ReadyCult® Method. “ReadyCult® Coliforms 100 Presence/Absence Test for Detection and Identification of Coliform Bacteria and *Escherichia coli* in Finished Waters,” January, 2007. Version 1.1. Available from EMD Millipore (division of Merck KGaA, Darmstadt, Germany), 290 Concord Road, Billerica, MA 01821.

<sup>21</sup> Chromocult® Method. “Chromocult® Coliform Agar Presence/Absence Membrane Filter Test Method for Detection and Identification of Coliform Bacteria and *Escherichia coli* in Finished Waters,” November, 2000. Version 1.0. EMD Millipore (division of Merck KGaA, Darmstadt, Germany), 290 Concord Road, Billerica, MA 01821.

<sup>22</sup> Hach Company. “Hach Company SPADNS 2 (Arsenite-Free) Fluoride Method 10225—Spectrophotometric Measurement of Fluoride in Water and Wastewater,” January 2011. 5600 Lindbergh Drive, P.O. Box 389, Loveland, Colorado 80539. (Available at <http://www.hach.com>.)

<sup>23</sup> Hach Company. “Hach Company TNTplus™ 835/836 Nitrate Method 10206—Spectrophotometric Measurement of Nitrate in Water and Wastewater,” January 2011. 5600 Lindbergh Drive, P.O. Box 389, Loveland, Colorado 80539. (Available at <http://www.hach.com>.)

<sup>24</sup> EPA Method 525.3. “Determination of Semivolatile Organic Chemicals in Drinking Water by Solid Phase Extraction and Capillary Column Gas Chromatography/Mass Spectrometry (GC/MS),” February 2012. EPA/600/R–12/010. Available at <http://www.epa.gov/nerlcwww/ordmeth.htm>.

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<sup>28</sup> *Standard Methods for the Examination of Water and Wastewater*, 22nd edition (2012). Available from American Public Health Association, 800 I Street NW., Washington, DC 20001–3710.

<sup>29</sup> EPA Method 524.4, Version 1.0. “Measurement of Purgeable Organic Compounds in Water by Gas Chromatography/Mass Spectrometry using Nitrogen Purge Gas,” May 2013. EPA 815–R–13–002. Available at <http://water.epa.gov/drink/>.

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<sup>31</sup> Hach Company. “Hach Method 10260—Determination of Chlorinated Oxidants (Free and Total) in Water Using Disposable Planar Reagent-filled Cuvettes and Mesofluidic Channel Colorimetry,” April 2013. 5600 Lindbergh Drive, P.O. Box 389, Loveland, CO 80539. (Available at <http://www.hach.com>.)

<sup>32</sup> ChlordioX Plus. “Chlorine Dioxide and Chlorite in Drinking Water by Amperometry using Disposable Sensors,” November 2013. Available from Palintest Ltd, Jamike Avenue (Suite 100), Erlanger, KY 41018.

<sup>33</sup> Tecta EC/TC. “Presence/Absence Method for Simultaneous Detection of Total Coliforms and *Escherichia coli* (*E. coli*) in Drinking Water,” April 2014. Available from Veolia Water Solutions and Technologies, Suite 4697, Biosciences Complex, 116 Barrie Street, Kingston, Ontario, Canada K7L 3N6.

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## ENVIRONMENTAL PROTECTION AGENCY

### 40 CFR Part 711

[EPA-HQ-OPPT-2012-0221; FRL-9910-84]

RIN 2070-AK01

### Partial Exemption of Certain Chemical Substances From Reporting Additional Chemical Data

**AGENCY:** Environmental Protection Agency (EPA).

**ACTION:** Direct final rule.

**SUMMARY:** EPA is amending the list of chemical substances that are partially exempt from reporting additional information under the Chemical Data Reporting (CDR) rule. EPA has determined that, based on the totality of information on the chemical substances listed in this document, the Agency has low current interest in their CDR processing and use information. EPA reached this conclusion after considering a number of factors, including: The risk of adverse human health or environmental effects, information needs for CDR processing and use information, and the availability of other sources of comparable processing and use information.

**DATES:** This direct final rule is effective August 18, 2014 without further notice, unless EPA receives adverse comment on or before July 21, 2014. If EPA receives written adverse comments, EPA will withdraw the applicable partial exemption in this direct final rule before its effective date. See also Unit II. of the **SUPPLEMENTARY INFORMATION.**

**ADDRESSES:** Submit your comments, identified by docket identification (ID) number EPA-HQ-OPPT-2012-0221, by one of the following methods:

- *Federal eRulemaking Portal:* <http://www.regulations.gov>. Follow the online instructions for submitting comments.

- *Mail:* Document Control Office (7407M), Office of Pollution Prevention and Toxics (OPPT), Environmental Protection Agency, 1200 Pennsylvania Ave. NW., Washington, DC 20460-0001.

- *Hand Delivery:* To make special arrangements for hand delivery or delivery of boxed information, please follow the instructions at <http://www.epa.gov/dockets/contacts.html>.

Additional instructions on commenting or visiting the docket, along with more information about

dockets generally, is available at <http://www.epa.gov/dockets>.

**FOR FURTHER INFORMATION CONTACT:** *For technical information contact:* Karen Hoffman, Chemical Control Division (7405M), Office of Pollution Prevention and Toxics, Environmental Protection Agency, 1200 Pennsylvania Ave. NW., Washington, DC 20460-0001; telephone number: (202) 564-8158; email address: [hoffman.karen@epa.gov](mailto:hoffman.karen@epa.gov).

*For general information contact:* The TSCA-Hotline, ABVI-Goodwill, 422 South Clinton Ave., Rochester, NY 14620; telephone number: (202) 554-1404; email address: [TSCA-Hotline@epa.gov](mailto:TSCA-Hotline@epa.gov).

#### SUPPLEMENTARY INFORMATION:

##### I. Executive Summary

###### A. What action is the agency taking?

This partial exemption eliminates an existing reporting requirement under 40 CFR 711.6(b)(2). With this direct final rule, the following chemical substances are being exempted from reporting of the information described in 40 CFR 711.15(b)(4): 1,3-Propanediol (Chemical Abstracts Service Registry Number (CASRN) 504-63-2); oils, palm kernel (CASRN 8023-79-8); and bentonite, acid-leached (CASRN 70131-50-9). However, by existing terms at 40 CFR 711.6, this partial exemption will become inapplicable to a subject chemical substance in the event that the chemical substance later becomes the subject of a rule proposed or promulgated under TSCA section 4, 5(a)(2), 5(b)(4), or 6, an enforceable consent agreement (ECA) developed under the procedures of 40 CFR part 790, an order issued under TSCA section 5(e) or 5(f), or relief that has been granted under a civil action under TSCA section 5 or 7. EPA is also making non-substantive technical amendments to 40 CFR 711.6(b)(2) to reflect that while prior information collections may have been styled as either "IUR collections" or "CDR collections," prospective obligations are styled as "under the CDR."

###### B. Why is the agency taking this action?

This amendment is in response to a petition request (Ref. 1) submitted under 40 CFR 711.6(b)(2)(iii)(A). EPA reviewed the information put forward in the petition and additional information against the considerations listed at 40 CFR 711.6(b)(2)(ii). EPA's chemical substance-specific analysis is detailed in supplementary documents available in the docket under docket ID number EPA-HQ-OPPT-2012-0221 (Refs. 2, 3, and 4). The Agency is adding these three chemical substances to the

partially exempt chemical substances list because it has concluded that, based on the totality of information available, the CDR processing and use information for these chemical substances is of low current interest.

###### C. What is the Agency's authority for taking this action?

This action is issued under the authority of the Toxic Substances Control Act (TSCA), 15 U.S.C. 2600 *et seq.*, to carry out the provisions of TSCA section 8(a), 15 U.S.C. 2607(a). Section 8(a) of TSCA authorizes EPA to promulgate rules under which manufacturers of chemical substances and mixtures must submit such information as the Agency may reasonably require. The partial exemption list was established in 2003 (Ref. 5) and can be found in 40 CFR 711.6.

###### D. What are the impacts of this action?

There are no costs associated with this action and the benefits provided are related to avoiding potential costs. This partial exemption eliminates an existing reporting requirement without imposing any new requirements. See also the discussion in Unit V.

###### E. Does this action apply to me?

You may be potentially affected by this action if you manufacture (defined by statute at 15 U.S.C. 2602(7) to include import) the chemical substances contained in this direct final rule. The North American Industrial Classification System (NAICS) codes provided here are not intended to be exhaustive, but rather provide a guide to help readers determine whether this document applies to them. Potentially affected entities may include chemical manufacturers subject to CDR reporting of one or more subject chemical substances (NAICS codes 325 and 324110), e.g., chemical manufacturing and petroleum refineries.

###### F. What should I consider as I prepare my comments for EPA?

Do not submit Confidential Business Information (CBI) to EPA through [regulations.gov](http://www.regulations.gov) or email. Clearly mark the part or all of the information that you claim to be CBI. For CBI information in a disk or CD-ROM that you mail to EPA, mark the outside of the disk or CD-ROM as CBI and then identify electronically within the disk or CD-ROM the specific information that is claimed as CBI. In addition to one complete version of the comment that includes information claimed as CBI, a copy of the comment that does not contain the information claimed as CBI