

determined that this rule does not have implications for federalism.

6. Protest Activities

The Coast Guard respects the First Amendment rights of protesters. Protesters are asked to contact the person listed in the **FOR FURTHER INFORMATION CONTACT** section to coordinate protest activities so that your message can be received without jeopardizing the safety or security of people, places or vessels.

7. Unfunded Mandates Reform Act

The Unfunded Mandates Reform Act of 1995 (2 U.S.C. 1531–1538) requires Federal agencies to assess the effects of their discretionary regulatory actions. In particular, the Act addresses actions that may result in the expenditure by a State, local, or tribal government, in the aggregate, or by the private sector of \$100,000,000 (adjusted for inflation) or more in any one year. Though this rule will not result in such an expenditure, we do discuss the effects of this rule elsewhere in this preamble.

8. Taking of Private Property

This rule will not cause a taking of private property or otherwise have taking implications under Executive Order 12630, Governmental Actions and Interference with Constitutionally Protected Property Rights.

9. Civil Justice Reform

This rule meets applicable standards in sections 3(a) and 3(b)(2) of Executive Order 12988, Civil Justice Reform, to minimize litigation, eliminate ambiguity, and reduce burden.

10. Protection of Children

We have analyzed this rule under Executive Order 13045, Protection of Children from Environmental Health Risks and Safety Risks. This rule is not an economically significant rule and does not create an environmental risk to health or risk to safety that may disproportionately affect children.

11. Indian Tribal Governments

This rule does not have tribal implications under Executive Order 13175, Consultation and Coordination with Indian Tribal Governments, because it does not have a substantial direct effect on one or more Indian tribes, on the relationship between the Federal Government and Indian tribes, or on the distribution of power and responsibilities between the Federal Government and Indian tribes.

12. Energy Effects

This action is not a “significant energy action” under Executive Order

13211, Actions Concerning Regulations That Significantly Affect Energy Supply, Distribution, or Use.

13. Technical Standards

This rule does not use technical standards. Therefore, we did not consider the use of voluntary consensus standards.

14. Environment

We have analyzed this rule under Department of Homeland Security Management Directive 023–01 and Commandant Instruction M16475.ID, which guide the Coast Guard in complying with the National Environmental Policy Act of 1969 (NEPA) (42 U.S.C. 4321–4370f), and have determined that this action is one of a category of actions that do not individually or cumulatively have a significant effect on the human environment. This rule involves the establishment of a safety zone on the navigable waters of the Atlantic Ocean in Ocean City, MD in order to restrict vessel traffic movement to protect mariners from the hazards associated with air show events. This rule is categorically excluded from further review under paragraph 34(g) of Figure 2–1 of the Commandant Instruction. An environmental analysis checklist supporting this determination and a Categorical Exclusion Determination will be available in the docket where indicated under **ADDRESSES**.

List of Subjects in 33 CFR Part 165

Harbors, Marine safety, Navigation (water), Reporting and recordkeeping requirements, Security measures, Waterways.

For the reasons discussed in the preamble, the Coast Guard amends 33 CFR part 165 as follows:

PART 165—REGULATED NAVIGATION AREAS AND LIMITED ACCESS AREAS

- 1. The authority citation for part 165 continues to read as follows:

Authority: 33 U.S.C. 1231; 46 U.S.C. Chapter 701, 3306, 3703; 50 U.S.C. 191, 195; 33 CFR 1.05–1, 6.04–1, 6.04–6 and 160.5; Pub. L. 107–295, 116 Stat. 2064; Department of Homeland Security Delegation No. 0170.1.

- 2. Add § 165.T05–0378 to read as follows:

§ 165.T05–0378 Safety Zone; Ocean City Air Show, Atlantic Ocean, Ocean City, MD.

(a) *Regulated area.* The following area is a safety zone: Specified waters of the Captain of the Port Sector Hampton Roads zone, as defined in 33 CFR 3.25–10, in the vicinity of the Atlantic Ocean in Ocean City, MD bound by the following coordinates: 38°21′38″ N/

075°04′04″ W, 38°21′27″ N/ 075°03′29″ W, 38°19′35″ N/ 075°04′19″ W, 38°19′45″ N/ 075°04′54″ W (NAD 1983).

(b) *Definition.* For the purposes of this part, Captain of the Port Representative means any U.S. Coast Guard commissioned, warrant or petty officer who has been authorized by the Captain of the Port, Hampton Roads, Virginia to act on his behalf.

(c) *Regulations.* (1) In accordance with the general regulations in 165.23 of this part, entry into this zone is prohibited unless authorized by the Captain of the Port, Hampton Roads or his designated representatives.

(2) The operator of any vessel in the immediate vicinity of this safety zone shall:

(i) Stop the vessel immediately upon being directed to do so by any commissioned, warrant or petty officer on shore or on board a vessel that is displaying a U.S. Coast Guard Ensign.

(ii) Proceed as directed by any commissioned, warrant or petty officer on shore or on board a vessel that is displaying a U.S. Coast Guard Ensign.

(3) The Captain of the Port, Hampton Roads can be reached through the Sector Duty Officer at Sector Hampton Roads in Portsmouth, Virginia at telephone Number (757) 668–5555.

(4) The Coast Guard Representatives enforcing the safety zone can be contacted on VHF–FM marine band radio channel 13 (165.65 Mhz) and channel 16 (156.8 Mhz).

(d) *Enforcement period.* This regulation will be enforced from June 6, 2013 until June 9, 2013 between the hours of 10 a.m. and 4 p.m. each day.

Dated: May 13, 2013.

John K. Little,

Captain, U.S. Coast Guard, Captain of the Port Hampton Roads.

[FR Doc. 2013–12888 Filed 5–30–13; 8:45 am]

BILLING CODE 9110–04–P

ENVIRONMENTAL PROTECTION AGENCY

40 CFR Part 141

[EPA–HQ–OW–2013–0300; FRL–9818–2]

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 84 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 May 31, 2013.

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.

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 also 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 ¹
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

¹ 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-2013-0300. Publicly available docket materials are available either electronically through www.regulations.gov or in hard copy at the Water Docket in the EPA Docket Center, (EPA/DC) EPA West, Room 3334, 1301 Constitution Ave., NW., Washington, DC. Copyrighted materials are available only in hard copy. The

EPA Docket Center 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
- CFR: Code of Federal Regulations
- EPA: United States Environmental Protection Agency
- GC: Gas Chromatography
- GC/MS: Gas Chromatography/Mass Spectrometry
- GWR: Ground Water Rule
- NAICS: North American Industry Classification System
- NEMI: National Environmental Methods Index
- QC: Quality Control
- SDWA: Safe Drinking Water Act
- TTHM: Total trihalomethanes
- VCSB: Voluntary Consensus Standard Bodies

II. Background

A. What is the purpose of this action?

In this action, EPA is approving 84 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 previously expedited methods 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.

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 84 additional methods available for determining contaminant concentrations in samples collected under the 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 84 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 84 methods that are equally effective relative to methods previously promulgated in the regulations. By means of this notice, these 84 methods are added to Appendix A to Subpart C of 40 CFR Part 141.

A. Methods Developed by EPA

1. EPA Method 524.4 (USEPA 2013) is a gas chromatography/mass spectrometry (GC/MS) method for the determination of 21 purgeable organic compounds, which are regulated in drinking water as specified at 40 CFR 141.61(a)(1) through (21), and total trihalomethanes (TTHM), which are regulated in drinking water as specified at 40 CFR 141.64(b)(1) and (2). The method analytes are purged from the water sample using nitrogen and trapped on a sorbent material. After purging, the sorbent trap is heated and back flushed with GC carrier gas and the analytes are transferred to a capillary GC column. The analytes eluting from the GC column are directed into a mass spectrometer for detection and quantitation. The analytes are identified by comparing the acquired mass spectra

and retention times for calibration standards acquired under identical GC/MS conditions. The concentration of each analyte is calculated using the internal standard technique and response curves are generated using procedural calibration standards. EPA Method 524.4 is an extension of EPA Method 524.3 (USEPA 2009a) which was approved in an earlier expedited methods approval action (74 FR 38348, August 3, 2009) (USEPA 2009b). Both EPA Methods 524.4 and 524.3 are updated versions of EPA Method 524.2, Revision 4.1 (USEPA 1995), which is currently approved at 40 CFR 141.24(e)(1) for the analysis of benzene; carbon tetrachloride; chlorobenzene; 1,2-dichlorobenzene; 1,4-dichlorobenzene; 1,2-dichloroethane; cis-dichloroethylene; trans-dichloroethylene; dichloromethane; 1,2-dichloropropane; ethylbenzene; styrene; tetrachloroethylene; 1,1,1-trichloroethane; trichloroethylene; toluene; 1,2,4-trichlorobenzene; 1,1-dichloroethylene; 1,1,2-trichloroethane; vinyl chloride; total xylenes (sum of o-xylene, m-xylene, and p-xylene) and total trihalomethanes (TTHM; sum of chloroform, bromodichloromethane, dibromochloromethane, and bromoform). EPA Method 524.2, Revision 4.1 is also approved at 40 CFR 141.131(b)(1) for TTHM. The primary difference between EPA Method 524.4 and EPA Method 524.3 lies in the purge gas. The cost of helium continues to rise and EPA Method 524.4 was developed using less expensive nitrogen gas to purge the analytes from drinking water samples instead of helium.

For each of the purgeable organic compounds and TTHM contaminants, the method performance characteristics of EPA Method 524.4 were compared to those of the approved method, EPA Method 524.2, Revision 4.1. EPA has determined EPA Method 524.4 is equally as effective as the approved method for determining the concentrations of each of the regulated purgeable organic compounds and TTHM contaminants in drinking water.

The basis for this determination is discussed in detail in Smith and Wendelken (2012a). Therefore, EPA is approving the use of EPA Method 524.4 for each of the above named contaminants when analyzing drinking water compliance samples.

A copy of EPA Method 524.4 can be accessed and downloaded directly online at <http://water.epa.gov/scitech/drinkingwater/labcert/analyticalmethods.cfm>.

B. Methods Developed by Voluntary Consensus Standard Bodies (VCSB)

1. Standard Methods for the Examination of Water and Wastewater (Standard Methods). The 22nd edition of *Standard Methods for the Examination of Water and Wastewater* (APHA 2012) was published earlier this year. EPA compared 79 methods in the 22nd edition to earlier versions of those methods that are currently approved in 40 CFR Part 141. Changes between the approved version and the version of each method published in the 22nd edition are summarized in Smith and Wendelken (2012b) and Best (2013). The revisions primarily involve editorial changes (e.g., corrections of errors, procedural clarifications, and reorganization of text); in addition, most of the chemistry methods in the 22nd edition contain an editorial change that directs analysts to the appropriate Quality Control (QC) section that contains the QC criteria and practices that are to be followed as part of the method. The methods in the 22nd edition listed in the following table are the same as the earlier approved versions with respect to the chemistry, sample handling protocols, and method performance data. For all of these reasons, EPA has concluded that the versions in the 22nd edition are thus equally effective relative to those that are currently approved in the regulations. Therefore, EPA is approving the use of 79 updated Standard Methods in the 22nd edition for the contaminants and their respective regulations listed in the following table:

Standard method, 22nd edition (APHA 2012)	Approved method	Contaminant	Regulation
2120 B	2120 B–01, online version (APHA 2001a).	Color	40 CFR 143.4(b)
2130 B	2130 B–01, online version (APHA 2001b).	Turbidity	40 CFR 141.74(a)(1)
2150 B	2150 B–97, online version (APHA 1997a).	Odor	40 CFR 143.4(b)
2320 B	2320 B–97, online version (APHA 1997b).	Alkalinity	40 CFR 141.23(k)(1)
2510 B	2510 B–97, online version (APHA 1997c).	Conductivity	40 CFR 141.23(k)(1)

Standard method, 22nd edition (APHA 2012)	Approved method	Contaminant	Regulation
2540 C	2540 C-97, online version (APHA 1997d).	Total Dissolved Solids	40 CFR 143.4(b)
2550	2550-00, online version (APHA 2000a).	Temperature	40 CFR 141.23(k)(1)
3111 B	3111 B-99, online version (APHA 1999a).	Calcium, copper, magnesium, nickel, sodium, iron, manganese, silver, zinc.	40 CFR 141.23(k)(1); 40 CFR 143.4(b)
3111 D	3111 D-99, online version (APHA 1999a).	Barium, aluminum	40 CFR 141.23(k)(1); 40 CFR 143.4(b)
3112 B	3112 B-99, online version (APHA 1999b).	Mercury	40 CFR 141.23(k)(1)
3113 B	3113 B, 19th Edition (APHA 1995)	Antimony, arsenic, barium, beryllium, cadmium, chromium, copper, lead, nickel, selenium, aluminum, iron, manganese, silver.	40 CFR 141.23(k)(1); 40 CFR 143.4(b)
3114 B	3114 B-97, online version (APHA 1997e).	Arsenic, selenium	40 CFR 141.23(k)(1)
3120 B	3120 B-99, online version (APHA 1999c).	Barium, beryllium, calcium, chromium, copper, magnesium, nickel, silica, aluminum, iron, manganese, silver, zinc.	40 CFR 141.23(k)(1); 40 CFR 143.4(b)
3500-Ca B	3500-Ca B-97, online version (APHA 1997f).	Calcium	40 CFR 141.23(k)(1)
3500-Mg B	3500-Mg B-97, online version (APHA 1997g).	Magnesium	40 CFR 141.23(k)(1)
4110 B	4110 B-00, online version (APHA 2000b).	Fluoride, nitrate, nitrite, ortho-phosphate, chloride, sulfate.	40 CFR 141.23(k)(1); 40 CFR 143.4(b)
4500-Cl D,F,G,H,	4500-Cl D,F,G,H-00, online versions (APHA 2000c).	Free chlorine	40 CFR 141.74(a)(2); 40 CFR 141.131(c)(1)
4500-Cl D,E,F,G,I	4500-Cl D,E,F,G,I-00, online versions (APHA 2000c).	Total chlorine	40 CFR 141.74(a)(2); 40 CFR 141.131(c)(1)
4500-Cl D,F,G,	4500-Cl D,F,G-00, online versions (APHA 2000c).	Combined chlorine	40 CFR 141.131(c)(1)
4500-Cl- B,D	4500-Cl- B,D-97, online versions (APHA 1997h).	Chloride	40 CFR 143.4(b)
4500-ClO ₂ C	4500-ClO ₂ C-00, online version (APHA 2000d).	Chlorine Dioxide	40 CFR 141.74(a)(2)
4500-ClO ₂ E	4500-ClO ₂ E-00, online version (APHA 2000d).	Chlorine Dioxide	40 CFR 141.74(a)(2); 40 CFR 141.131(c)(1)
4500-ClO ₂ E	4500-ClO ₂ E-00, online version (APHA 2000d).	Chlorite	40 CFR 141.131(b)(1)
4500-CN- E,F,G	4500-CN- E,F,G-99, online versions (APHA 1999d).	Cyanide	40 CFR 141.23(k)(1)
4500-F- B,C,D,E	4500-F- B,C,D,E-97, online versions (APHA 1997i).	Fluoride	40 CFR 141.23(k)(1)
4500-H ⁺ B	4500-H ⁺ B-00, online version (APHA 2000e).	pH	40 CFR 141.23(k)(1)
4500-NO ₃ - D	4500-NO ₃ - D-00, online version (APHA 2000f).	Nitrate	40 CFR 141.23(k)(1)
4500-NO ₃ - E,F	4500-NO ₃ - E,F-00, online versions (APHA 2000f).	Nitrate, nitrite	40 CFR 141.23(k)(1)
4500-NO ₂ - B	4500-NO ₂ - B-00, online version (APHA 2000g).	Nitrite	40 CFR 141.23(k)(1)
4500-O ₃ B	4500-O ₃ B-97, online version (APHA 1997j).	Ozone	40 CFR 141.74(a)(2)
4500-P E,F	4500-P E,F, 19th Edition (APHA 1995).	Ortho-phosphate	40 CFR 141.23(k)(1)
4500-SiO ₂ C,D,E	4500-SiO ₂ C,D,E-97, online versions (APHA 1997k).	Silica	40 CFR 141.23(k)(1)
4500-SO ₄ ²⁻ C,D,E,F	4500-SO ₄ ²⁻ C,D,E,F, 19th Edition (APHA 1995).	Sulfate	40 CFR 143.4(b)
5310 B,C,D	5310 B,C,D-00, online versions (APHA 2000h).	Dissolved and Total Organic Carbon	40 CFR 141.131(d)
5540 C	5540 C-00, online version (APHA 2000i).	Foaming agents	40 CFR 143.4(b)
5910 B	5910 B-00, online version (APHA 2000j).	UV Absorption at 254 nm	40 CFR 141.131(d)
6251 B	6251 B-94, online version (APHA 1994).	HAA5	40 CFR 141.131(b)(1)
6610 B	EPA Method 531.2, Rev. 1.0 (2001a)	Carbofuran, oxamyl	40 CFR 141.24(e)(1)
6640 B	EPA Method 515.4, Rev. 1.0 (2000) ..	2,4-D; 2,4,5-TP; Dalapon; Dinoseb; Pentachlorophenol; Picloram.	40 CFR 141.24(e)(1)
6651 B	6651 B, 20th Edition (APHA 1998)	Glyphosate	40 CFR 141.24(e)(1)

Standard method, 22nd edition (APHA 2012)	Approved method	Contaminant	Regulation
7110 B	7110 B-00, online version (APHA 2000k).	Gross alpha and beta	40 CFR 141.25(a)
7110 C	7110 C-00, online version (APHA 2000k).	Gross alpha	40 CFR 141.25(a)
7120	7120-97, online version (APHA 1997).	Gamma emitters (includes radioactive cesium and iodine).	40 CFR 141.25(a)
7500-Cs B	7500-Cs B-00, online version (APHA 2000l).	Radioactive Cesium Gamma emitters	40 CFR 141.25(a)
7500- ³ H B	7500- ³ H B-00, online version (APHA 2000m).	Tritium	40 CFR 141.25(a)
7500-I B	7500-I B-00, online version (APHA 2000n).	Radioactive Iodine Gamma emitters ..	40 CFR 141.25(a)
7500-I C,D	7500-I C,D-00, online versions (APHA 2000n).	Radioactive Iodine	40 CFR 141.25(a)
7500-Ra B,C	7500-Ra B,C-01, online versions (APHA 2001c).	Radium-226	40 CFR 141.25(a)
7500-Ra D	7500-Ra D-01, online version (APHA 2001c).	Radium-228	40 CFR 141.25(a)
7500-Sr B	7500-Sr B-01, online version (APHA 2001d).	Strontium-89, Strontium-90	40 CFR 141.25(a)
7500-U B,C	7500-U B,C-00, online versions (APHA 2000o).	Uranium	40 CFR 141.25(a)
9221 A	9221 A, 20th Edition (APHA 1998)	Total Coliforms	40 CFR 141.21(f)(3); 40 CFR 141.74(a)(1)
9221 B	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	9221 B, 20th Edition (APHA 1998)	Total Coliforms	40 CFR 141.852(a)(5)
9221 C	9221 C, 20th Edition (APHA 1998)	Total Coliforms	40 CFR 141.74(a)(1)
9221 E	9221 E, 20th Edition (APHA 1998)	Fecal Coliforms	40 CFR 141.21(f)(5); 40 CFR 141.74(a)(1)
9221 F	9221 F, 20th Edition (APHA 1998)	E. coli	40 CFR 141.402(c)(2)
9221 F.1	9221 F, 20th Edition (APHA 1998)	E. coli	40 CFR 141.852(a)(5)
9222 D	9222 D, 20th Edition (APHA 1998)	Fecal Coliforms	40 CFR 141.74(a)(1)
9223 B	9223, 20th Edition (APHA 1998)	Total Coliforms	40 CFR 141.21(f)(3); 40 CFR 141.74(a)(1); 40 CFR 141.852(a)(5)
9223 B	9223 B, 20th Edition (APHA 1998)	E. coli	40 CFR 141.21(f)(6); 40 CFR 141.402(c)(2); 40 CFR 141.852(a)(5)
9215 B	9215 B, 20th Edition (APHA 1998)	Heterotrophic Bacteria	40 CFR 141.74(a)(1)

The 22nd edition can be obtained from the American Public Health Association (APHA), 800 I Street, NW., Washington, DC 20001-3710. 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 D516-11, D1067-11 B,

and D1293-12) to the earlier versions of those methods that are currently approved in 40 CFR part 141. Changes between the earlier approved version and the most recent version of each method are summarized in Smith (2012). The revisions primarily involve editorial changes (e.g., updated references, definitions, terminology, 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, and 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
D516-11 (ASTM 2011a)	D516-02 (ASTM 2002a)	Sulfate	40 CFR 143.4(b)
D1067-11 B (ASTM 2011b)	D1067-02 B (ASTM 2002b)	Alkalinity	40 CFR 141.23(k)(1)
D1293-12 (ASTM 2012)	D1293-99 (ASTM 1999)	pH	40 CFR 141.23(k)(1)

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

C. Methods Developed by Vendors

1. Charm Sciences, Inc. Fast Phage (2012a) is a microbiological method for the detection of male-specific (F+) and

somatic coliphages in ground water by a two-step enrichment procedure. Coliphages are detected as being present or absent in 100 mL samples of ground water by the formation of plaques on agar plates containing the host bacterium. Fast Phage includes a presumptive rapid fluorescence step

that can predict coliphage positive samples in less than eight hours.

EPA Method 1601 (USEPA 2001b) is currently approved under the Ground Water Rule (GWR) at 40 CFR 141.402(c)(2) for the detection of coliphages in ground water source waters. Fast Phage is similar to EPA Method 1601 but has modifications to

the medium and incubation temperature, which make the method more rapid. Fast Phage is able to detect coliphages in 16 to 30 hours compared to 40 to 60 hours for EPA Method 1601. Additionally, Fast Phage includes kits, which supply the medium, antibiotics and freeze-dried host bacteria in a pre-packaged and standardized form for easier use.

A multi-laboratory study was conducted to compare the method performance of Fast Phage to the performance of the approved method, EPA Method 1601. Three geographically diverse wastewaters were used as sources of somatic and male-specific coliphages for the study. In four different laboratories, Fast Phage was compared side by side with EPA Method 1601 for somatic and male-specific coliphage detection in local ground waters that were inoculated with low level coliphages from each of the test wastewaters. Ten replicates of inoculated ground waters were evaluated for both Fast Phage and EPA Method 1601, and each test wastewater was evaluated as an inoculant. The study report (Charm Sciences Inc. 2012b) details the study design and implementation along with the validation data obtained from the multi-laboratory evaluation. The results of the multi-laboratory studies indicate that Fast Phage is equally as effective as EPA Method 1601 in method performance for detecting male-specific and somatic coliphages in ground water. The basis for this determination is discussed in Sinclair (2013). EPA is thus approving Fast Phage as an alternate method to EPA Method 1601 for the detection of male-specific and somatic coliphages in ground water under the Ground Water Rule.

The Fast Phage method is available from Charm Sciences, Inc., 659 Andover Street, Lawrence, MA 01843, and also at www.charmsciences.com.

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.

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List of Subjects in 40 CFR Part 141

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

Dated: May 21, 2013.

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 entire table entitled "ALTERNATIVE TESTING METHODS FOR CONTAMINANTS LISTED AT 40 CFR 141.21(f)(3)."

■ b. By adding the table entitled "ALTERNATIVE TESTING METHODS FOR CONTAMINANTS LISTED AT 40 CFR 141.21(f)(5)" after the table entitled "ALTERNATIVE TESTING METHODS FOR CONTAMINANTS LISTED AT 40 CFR 141.21(f)(3)."

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

■ d. By revising the table entitled "ALTERNATIVE TESTING METHODS FOR CONTAMINANTS LISTED AT 40 CFR 141.23(k)(1)."

■ e. By revising 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 141.25(a)."

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

■ h. By revising the table entitled "ALTERNATIVE TESTING METHODS FOR DISINFECTANT RESIDUALS LISTED AT 40 CFR 141.74(a)(2)."

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

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

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

■ l. By revising the table entitled "ALTERNATIVE TESTING METHODS FOR CONTAMINANTS LISTED AT 40 CFR 141.402(c)(2)."

■ m. By adding the table entitled "ALTERNATIVE TESTING METHODS FOR CONTAMINANTS LISTED AT 40 CFR 141.852(a)(5)" after the table entitled "ALTERNATIVE TESTING METHODS FOR CONTAMINANTS LISTED AT 40 CFR 141.704(b)."

■ n. By revising the table entitled "ALTERNATIVE TESTING METHODS FOR CONTAMINANTS LISTED AT 40 CFR 143.4(b)."

■ o. By revising footnotes 19, 20, and 21.

■ p. By adding footnotes 24 through 30 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 ¹	SM 22nd Edition ²⁸	Other
Total Coliforms	Total Coliform Fermentation Technique	9221 A, B	9221 A, B	Modified Colitag™ ¹³
	Total Coliform Membrane Filter Technique	9222 A, B, C		
	Presence-Absence (P-A) Coliform Test	9221 D		
	ONPG-MUG Test	9223	9223 B	
	Colitag™ .....	.....	.....

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

Organism	Methodology	SM 22nd edition ²⁸
Fecal Coliforms	Fecal Coliform Procedure	9221 E.

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

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

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

Contaminant	Methodology	EPA method	SM 21st edition ¹	SM 22nd edition ²⁸	SM online ³	ASTM ⁴	Other
Alkalinity ..	Titrimetric .....	.....	2320 B	2320 B .....	.....	D 1067-06 B, 11 B D 3697-07	
Antimony ..	Hydride—Atomic Absorption .....	.....	.....	.....	.....
	Atomic Absorption; Furnace .....	.....	3113 B	3113 B	3113 B-04		
	Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES).	200.5, Revision 4.2 ²					
Arsenic	Atomic Absorption; Furnace .....	.....	3113 B	3113 B	3113 B-04	D 2972-08 C	
	Hydride Atomic Absorption .....	.....	3114 B	3114 B	3114 B-09	D 2972-08 B	
	Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES).	200.5, Revision 4.2 ²					
Barium	Inductively Coupled Plasma .....	.....	3120 B	3120 B			
	Atomic Absorption; Direct .....	.....	3111 D	3111 D			
	Atomic Absorption; Furnace .....	.....	3113 B	3113 B	3113 B-04		
	Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES).	200.5, Revision 4.2 ²					
Beryllium ..	Inductively Coupled Plasma .....	.....	3120 B	3120 B			
	Atomic Absorption; Furnace .....	.....	3113 B	3113 B	3113 B-04	D 3645-08 B	
	Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES).	200.5, Revision 4.2 ²					
Cadmium	Atomic Absorption; Furnace .....	.....	3113 B	3113 B	3113 B-04		
	Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES).	200.5, Revision 4.2 ²					
Calcium	EDTA titrimetric .....	.....	3500-Ca B	3500-Ca B	.....	D 511-09 A	
	Atomic Absorption; Direct Aspiration .....	.....	3111 B	3111 B .....	.....	D 511-09 B	
	Inductively Coupled Plasma .....	.....	3120 B	3120 B			
	Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES).	200.5, Revision 4.2 ²					
Chromium	Ion Chromatography .....	.....	.....	.....	.....	D 6919-09	
	Inductively Coupled Plasma .....	.....	3120 B	3120 B			
	Atomic Absorption; Furnace .....	.....	3113 B	3113 B	3113 B-04		
	Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES).	200.5, Revision 4.2 ²					
Copper	Atomic Absorption; Furnace .....	.....	3113 B	3113 B	3113 B-04	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 ²					
Conductivity.	Conductance .....	.....	2510 B	2510 B			

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

Contaminant	Methodology	EPA method	SM 21st edition ¹	SM 22nd edition ²⁸	SM online ³	ASTM ⁴	Other
Cyanide ...	Manual Distillation followed by .....	.....	.....	.....	.....	D 2036–06 A	
	Spectrophotometric, Amenable .....	.....	4500–CN [–] G.	4500–CN [–] G.	.....	D 2036–06 B	
	Spectrophotometric Manual .....	.....	4500–CN [–] E.	4500–CN [–] E.	.....	D2036–06 A	
	Selective Electrode .....	.....	4500–CN [–] F.	4500–CN [–] F.	.....	
	Headspace Gas Chromatography/Mass Spectrometry.	.....	.....	.....	.....		ME355.01 ⁷
Fluoride	Ion Chromatography .....	.....	4110 B	4110 B	.....	
	Manual Distillation; Colorimetric SPADNS .....	.....	4500–F [–] B, D.	4500–F [–] B, D.	.....	
	Manual Electrode .....	.....	4500–F [–] C.	4500–F [–] C.	.....	D 1179–04, 10 B	
	Automated Alizarin .....	.....	4500–F [–] E.	4500–F [–] E.	.....	
	Arsenite-Free Colorimetric SPADNS .....	.....	.....	.....	.....		Hach SPADNS 2 Method 10225. ²²
Lead	Atomic Absorption; Furnace .....	.....	3113 B	3113 B	3113 B–04	D 3559–08 D	
	Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP–AES).	200.5, Revision 4.2 ²					
Magnesium.	Atomic Absorption .....	.....	3111 B	3111 B	.....	D 511–09 B	
	Inductively Coupled Plasma .....	.....	3120 B	3120 B	.....	
	Complexation Titrimetric Methods .....	.....	3500–Mg B.	3500–Mg B.	.....	D 511–09 A	
	Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP–AES).	200.5, Revision 4.2 ²					
	Ion Chromatography .....	.....				D 6919–09	
Mercury	Manual, Cold Vapor .....	.....	3112 B	3112 B	3112 B–09		
Nickel	Inductively Coupled Plasma .....	.....	3120 B	3120 B	.....	
	Atomic Absorption; Direct .....	.....	3111 B	3111 B	.....	
	Atomic Absorption; Furnace .....	.....	3113 B	3113 B	3113 B–04		
	Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP–AES).	200.5, Revision 4.2 ²					
Nitrate	Ion Chromatography .....	.....	4110 B	4110 B	.....	
	Automated Cadmium Reduction .....	.....	4500–NO ₃ [–] F.	4500–NO ₃ [–] F.	.....	
	Manual Cadmium Reduction .....	.....	4500–NO ₃ [–] E.	4500–NO ₃ [–] E.	.....	
	Ion Selective Electrode .....	.....	4500–NO ₃ [–] D.	4500–NO ₃ [–] D.	.....	
	Reduction/Colorimetric .....	.....	.....	.....	.....		Systema Easy (1-Reagent). ⁸
	Colorimetric; Direct .....	.....	.....	.....	.....		Hach TNTplus™ 835/836 Method 10206. ²³
Nitrite	Ion Chromatography .....	.....	4110 B	4110 B	.....	
	Automated Cadmium Reduction .....	.....	4500–NO ₃ [–] F.	4500–NO ₃ [–] F.	.....	
	Manual Cadmium Reduction .....	.....	4500–NO ₃ [–] E.	4500–NO ₃ [–] E.	.....	
	Spectrophotometric .....	.....	4500–NO ₂ [–] B.	4500–NO ₂ [–] B.	.....	
	Reduction/Colorimetric .....	.....	.....	.....	.....		Systema Easy (1-Reagent). ⁸
Orthophosphate.	Ion Chromatography .....	.....	4110 B	4110 B	.....	
	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		

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

Contaminant	Methodology	EPA method	SM 21st edition ¹	SM 22nd edition ²⁸	SM online ³	ASTM ⁴	Other
pH	Electrometric .....	.....	4500-H ⁺ B.	4500-H ⁺ B.	.....	D 1293-12	
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	D 3859-08 B	
	Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES).	200.5, Revision 4.2 ²					
Silica	Colorimetric .....	.....	.....	.....	.....	D859-05, 10	
	Molybdosilicate .....	.....	4500-SiO ₂ C.	4500-SiO ₂ C.			
	Heteropoly blue .....	.....	4500-SiO ₂ D.	4500-SiO ₂ D.			
	Automated for Molybdate-reactive Silica ..	.....	4500-SiO ₂ E.	4500-SiO ₂ E.			
	Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES).	200.5, Revision 4.2 ²					
Sodium	Inductively Coupled Plasma .....	.....	3120 B	3120 B			
	Atomic Absorption; Direct Aspiration .....	.....	3111 B	3111 B			
	Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES).	200.5, Revision 4.2 ²					
Temperature.	Ion Chromatography .....	.....	.....	.....	.....	D 6919-09	
	Thermometric .....	.....	2550	2550			

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

Contaminant	Methodology	EPA method	SM 21st edition ¹	SM 22nd edition ²⁸	SM online ³
Benzene	Purge & trap/Gas Chromatography/Mass Spectrometry.	524.3, ⁹ 524.4 ²⁹			
Carbon tetrachloride	Purge & trap/Gas Chromatography/Mass Spectrometry.	524.3, ⁹ 524.4 ²⁹			
Chlorobenzene	Purge & trap/Gas Chromatography/Mass Spectrometry.	524.3, ⁹ 524.4 ²⁹			
1,2-Dichlorobenzene	Purge & trap/Gas Chromatography/Mass Spectrometry.	524.3, ⁹ 524.4 ²⁹			
1,4-Dichlorobenzene	Purge & trap/Gas Chromatography/Mass Spectrometry.	524.3, ⁹ 524.4 ²⁹			
1,2-Dichloroethane	Purge & trap/Gas Chromatography/Mass Spectrometry.	524.3, ⁹ 524.4 ²⁹			
cis-Dichloroethylene	Purge & trap/Gas Chromatography/Mass Spectrometry.	524.3, ⁹ 524.4 ²⁹			
trans-Dichloroethylene	Purge & trap/Gas Chromatography/Mass Spectrometry.	524.3, ⁹ 524.4 ²⁹			
Dichloromethane	Purge & trap/Gas Chromatography/Mass Spectrometry.	524.3, ⁹ 524.4 ²⁹			
1,2-Dichloropropane	Purge & trap/Gas Chromatography/Mass Spectrometry.	524.3, ⁹ 524.4 ²⁹			
Ethylbenzene	Purge & trap/Gas Chromatography/Mass Spectrometry.	524.3, ⁹ 524.4 ²⁹			
Styrene	Purge & trap/Gas Chromatography/Mass Spectrometry.	524.3, ⁹ 524.4 ²⁹			
Tetrachloroethylene	Purge & trap/Gas Chromatography/Mass Spectrometry.	524.3, ⁹ 524.4 ²⁹			
1,1,1-Trichloroethane	Purge & trap/Gas Chromatography/Mass Spectrometry.	524.3, ⁹ 524.4 ²⁹			
Trichloroethylene	Purge & trap/Gas Chromatography/Mass Spectrometry.	524.3, ⁹ 524.4 ²⁹			
Toluene	Purge & trap/Gas Chromatography/Mass Spectrometry.	524.3, ⁹ 524.4 ²⁹			
1,2,4-Trichlorobenzene	Purge & trap/Gas Chromatography/Mass Spectrometry.	524.3, ⁹ 524.4 ²⁹			
1,1-Dichloroethylene	Purge & trap/Gas Chromatography/Mass Spectrometry.	524.3, ⁹ 524.4 ²⁹			

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

Contaminant	Methodology	EPA method	SM 21st edition ¹	SM 22nd edition ²⁸	SM online ³
1,1,2-Trichlorethane	Purge & trap/Gas Chromatography/Mass Spectrometry.	524.3, ⁹ 524.4 ²⁹			
Vinyl chloride	Purge & trap/Gas Chromatography/Mass Spectrometry.	524.3, ⁹ 524.4 ²⁹			
Xylenes (total)	Purge & trap/Gas Chromatography/Mass Spectrometry.	524.3, ⁹ 524.4 ²⁹			
2,4-D	Gas Chromatography/Electron Capture Detection (GC/ECD).		6640 B	6640 B	6640 B-01.
2,4,5-TP (Silvex)	Gas Chromatography/Electron Capture Detection (GC/ECD).		6640 B	6640 B	6640 B-01.
Alachlor	Solid Phase Extraction/Gas Chromatography/Mass Spectrometry (GC/MS).	525.3 ²⁴			
Atrazine	Liquid Chromatography Electrospray Ionization Tandem Mass Spectrometry (LC/ESI-MS/MS).	536 ²⁵			
	Solid Phase Extraction/Gas Chromatography/Mass Spectrometry (GC/MS).	525.3, ²⁴ 523 ²⁶			
Benzo(a)pyrene	Solid Phase Extraction/Gas Chromatography/Mass Spectrometry (GC/MS).	525.3 ²⁴			
Carbofuran	High-performance liquid chromatography (HPLC) with post-column derivatization and fluorescence detection.		6610 B	6610 B	6610 B-04.
Chlordane	Solid Phase Extraction/Gas Chromatography/Mass Spectrometry (GC/MS).	525.3 ²⁴			
Dalapon	Ion Chromatography Electrospray Ionization Tandem Mass Spectrometry (IC-ESI-MS/MS).	557 ¹⁴			
	Gas Chromatography/Electron Capture Detection (GC/ECD).		6640 B	6640 B	6640 B-01.
Di(2-ethylhexyl)adipate	Solid Phase Extraction/Gas Chromatography/Mass Spectrometry (GC/MS).	525.3 ²⁴			
Di(2-ethylhexyl)phthalate	Solid Phase Extraction/Gas Chromatography/Mass Spectrometry (GC/MS).	525.3 ²⁴			
Dibromochloropropane (DBCP)	Purge & trap/Gas Chromatography/Mass Spectrometry.	524.3 ⁹			
Dinoseb	Gas Chromatography/Electron Capture Detection (GC/ECD).		6640 B	6640 B	6640 B-01.
Endrin	Solid Phase Extraction/Gas Chromatography/Mass Spectrometry (GC/MS).	525.3 ²⁴			
Ethyl dibromide (EDB)	Purge & trap/Gas Chromatography/Mass Spectrometry.	524.3 ⁹			
Glyphosate	High-Performance Liquid Chromatography (HPLC) with Post-Column Derivatization and Fluorescence Detection.		6651 B	6651 B	6651 B-00.
Heptachlor	Solid Phase Extraction/Gas Chromatography/Mass Spectrometry (GC/MS).	525.3 ²⁴			
Heptachlor Epoxide	Solid Phase Extraction/Gas Chromatography/Mass Spectrometry (GC/MS).	525.3 ²⁴			
Hexachlorobenzene	Solid Phase Extraction/Gas Chromatography/Mass Spectrometry (GC/MS).	525.3 ²⁴			
Hexachlorocyclo-pentadiene	Solid Phase Extraction/Gas Chromatography/Mass Spectrometry (GC/MS).	525.3 ²⁴			
Lindane	Solid Phase Extraction/Gas Chromatography/Mass Spectrometry (GC/MS).	525.3 ²⁴			
Methoxychlor	Solid Phase Extraction/Gas Chromatography/Mass Spectrometry (GC/MS).	525.3 ²⁴			
Oxamyl	High-performance liquid chromatography (HPLC) with post-column derivatization and fluorescence detection.		6610 B	6610 B	6610 B-04.
PCBs (as Aroclors)	Solid Phase Extraction/Gas Chromatography/Mass Spectrometry (GC/MS).	525.3 ²⁴			
Pentachlorophenol	Gas Chromatography/Electron Capture Detection (GC/ECD).		6640 B	6640 B	6640 B-01.
	Solid Phase Extraction/Gas Chromatography/Mass Spectrometry (GC/MS).	525.3 ²⁴			
Picloram	Gas Chromatography/Electron Capture Detection (GC/ECD).		6640 B	6640 B	6640 B-01.
Simazine	Liquid Chromatography Electrospray Ionization Tandem Mass Spectrometry (LC/ESI-MS/MS).	536 ²⁵			

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

Contaminant	Methodology	EPA method	SM 21st edition ¹	SM 22nd edition ²⁸	SM online ³
Toxaphene	Solid Phase Extraction/Gas Chromatography/Mass Spectrometry (GC/MS).	525.3, ²⁴ 523 ²⁶			
Total Trihalomethanes	Solid Phase Extraction/Gas Chromatography/Mass Spectrometry (GC/MS). Purge & trap/Gas Chromatography/Mass Spectrometry.	525.3 ²⁴ 524.3, ⁹ 524.4 ²⁹			

ALTERNATIVE TESTING METHODS FOR CONTAMINANTS LISTED AT 40 CFR 141.25(A)

Contaminant	Methodology	SM 21st Edition ¹	SM 22nd Edition ²⁸	ASTM ⁴
Naturally Occurring: Gross alpha and beta	Evaporation	7110 B	7110 B	
Gross alpha	Coprecipitation	7110 C	7110 C	
Radium 226	Radon emanation	7500-Ra C	7500-Ra C	D3454–05
	Radiochemical	7500-Ra B	7500-Ra B	D2460–07
Radium 228	Radiochemical	7500-Ra D	7500-Ra D	
Uranium	Radiochemical	7500-U B	7500-U B	
	ICP-MS	3125		D5673–05, 10
	Alpha spectrometry	7500-U C	7500-U C	D3972–09
	Laser Phosphorimetry			D5174–07
	Alpha Liquid Scintillation Spectrometry.			D6239–09
Man-Made: Radioactive Cesium	Radiochemical	7500-Cs B	7500-Cs B	
	Gamma Ray Spectrometry	7120	7120	D3649–06
Radioactive Iodine	Radiochemical	7500-I B	7500-I B	D3649–06
		7500-I C	7500-I C	
		7500-I D	7500-I D	
	Gamma Ray Spectrometry	7120	7120	D4785–08
Radioactive Strontium 89, 90 ..	Radiochemical	7500-Sr B	7500-Sr B	
Tritium	Liquid Scintillation	7500- ³ H B	7500- ³ H B	D4107–08
Gamma Emitters	Gamma Ray Spectrometry	7120	7120	D3649–06
		7500-Cs B	7500-Cs B	D4785–08
		7500-I B	7500-I B	

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

Organism	Methodology	SM 21st edition ¹	SM 22nd edition ²⁸	Other
Total Coliform	Total Coliform Fermentation Technique.	9221 A, B, C	9221 A, B, C.	
	Total Coliform Membrane Filter Technique.	9222 A, B, C.		
Fecal Coliforms	ONPG-MUG Test	9223	9223 B.	
	Fecal Coliform Procedure	9221 E	9221 E.	
	Fecal Coliform Filter Procedure.	9222 D	9222 D.	
Heterotrophic bacteria	Pour Plate Method	9215 B	9215 B.	
Turbidity	Nephelometric Method	2130 B	2130 B.	
	Laser Nephelometry (on-line)			Mitchell M5271 ¹⁰
	LED Nephelometry (on-line) ...			Mitchell M5331 ¹¹
	LED Nephelometry (on-line) ...			AMI Turbiwell ¹⁵
	LED Nephelometry (portable)			Orion AQ4500 ¹²

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

Residual	Methodology	SM 21st edition ¹	SM 22nd edition ²⁸	ASTM ⁴	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 ...		
	Syringaldazine (FACTS)	4500-CI H ...	4500-CI H		
	On-line Chlorine Analyzer				
	Amperometric Sensor				EPA 334.0 ¹⁶
Total Chlorine	Amperometric Titration	4500-CI D ...	4500-CI D ...	D 1253–08	ChloroSense ¹⁷
	Amperometric Titration (Low level measurement).	4500-CI E ...	4500-CI E		

ALTERNATIVE TESTING METHODS FOR DISINFECTANT RESIDUALS LISTED AT 40 CFR 141.74(A)(2)—Continued

Residual	Methodology	SM 21st edition ¹	SM 22nd edition ²⁸	ASTM ⁴	Other
Chlorine Dioxide	DPD Ferrous Titrimetric	4500-CI F ...	4500-CI F		EPA 334.0 ¹⁶ ChloroSense ¹⁷
	DPD Colorimetric	4500-CI G ...	4500-CI G		
	Iodometric Electrode	4500-CI I ...	4500-CI I		
	On-line Chlorine Analyzer				
	Amperometric Sensor				
Ozone	Amperometric Titration	4500-CIO ₂ C	4500-CIO ₂ C		
	Amperometric Titration	4500-CIO ₂ E	4500-CIO ₂ E		
	Indigo Method	4500-O ₃ B ..	4500-O ₃ B		

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

Contaminant	Methodology	EPA method	ASTM ⁴	SM 21st edition ¹	SM 22nd edition ²⁸
TTHM	P&T/GC/MS	524.3, ⁹ 524.4 ²⁹ .			
HAA5	LLE (diazomethane)/GC/ECD			6251 B	6251 B
Bromate	Ion Chromatography Electrospray Ionization Tandem Mass Spectrometry (IC-ESI-MS/MS).	557 ¹⁴			
	Two-Dimensional Ion Chromatography (IC).	302.0 ¹⁸ .			
Chlorite	Ion Chromatography Electrospray Ionization Tandem Mass Spectrometry (IC-ESI-MS/MS).	557 ¹⁴ .			
	Chemically Suppressed Ion Chromatography.		D 6581-08 A.		
	Electrolytically Suppressed Ion Chromatography.		D 6581-08 B.		
	Chemically Suppressed Ion Chromatography.		D 6581-08 A.		
Chlorite—daily monitoring as prescribed in 40 CFR 141.132(b)(2)(i)(A).	Electrolytically Suppressed Ion Chromatography.		D 6581-08 B.		
	Amperometric Titration		4500-CIO ₂ E	4500-CIO ₂ E.	

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

Residual	Methodology	SM 21st edition ¹	SM 22nd edition ²⁸	ASTM ⁴	Other
Free Chlorine	Amperometric Titration	4500-CI D ...	4500-CI D ...	D 1253-08.	ChloroSense ¹⁷ EPA 334.0 ¹⁶
	DPD Ferrous Titrimetric	4500-CI F ...	4500-CI F.		
	DPD Colorimetric	4500-CI G ...	4500-CI G.		
	Syringaldazine (FACTS)	4500-CI H ...	4500-CI H.		
	Amperometric Sensor				
Combined Chlorine	On-line Chlorine Analyzer				
	Amperometric Titration	4500-CI D ...	4500-CI D ...	D 1253-08.	
	DPD Ferrous Titrimetric	4500-CI F ...	4500-CI F.		
Total Chlorine	DPD Colorimetric	4500-CI G ...	4500-CI G.		
	Amperometric Titration	4500-CI D ...	4500-CI D ...	D 1253-08.	
	Low level Amperometric Titration	4500-CI E ...	4500-CI E.		
	DPD Ferrous Titrimetric	4500-CI F ...	4500-CI F.		
	DPD Colorimetric	4500-CI G ...	4500-CI G.		
Chlorine Dioxide	Iodometric Electrode	4500-CI I ...	4500-CI I.		
	Amperometric Sensor				
	On-line Chlorine Analyzer				
	Amperometric Method II	4500-CIO ₂ E	4500-CIO ₂ E.		
					ChloroSense ¹⁷ EPA 334.0 ¹⁶

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

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

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

Organism	Methodology	SM 20th edition ⁶	SM 21st edition ¹	SM 22nd edition ²⁸	SM online ³	Other
<i>E. coli</i>	Colilert [®]	9223 B	9223 B	9223 B-97	Ready-cult ^{®20} Modified Colitag ^{™13} Chromocult ^{®21}
	Colisure [®]	9223 B	9223 B	9223 B-97	
	Colilert-18	9223 B	9223 B	9223 B	9223 B-97	
	Readycult [®]	
	Colitag .....	.....	.....	.....	.....
Enterococci	Chromocult [®]	Fast Phage ³⁰
	EC-MUG Multiple-Tube Technique	9221 F.	9230 B-04.	
Coliphage	Two-Step Enrichment Presence-Absence Procedure.	

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

Organism	Methodology category	Method	SM 22nd edition ²⁸
Total Coliforms	Lactose Fermentation Methods	Standard Total Coliform Fermentation Technique.	9221 B.1, B.2
	Enzyme Substrate Methods	Colilert [®]	9223 B
<i>Escherichia coli</i>	<i>Escherichia coli</i> Procedure (following Lactose Fermentation Methods). Enzyme Substrate Methods	Colisure [®]	9223 B
		EC-MUG medium	9221 F.1
		Colilert [®]	9223 B
		Colisure [®]	9223 B

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

Contaminant	Methodology	EPA method	ASTM ⁴	SM 21st Edition ¹	SM 22nd Edition ²⁸	SM Online ³
Aluminum	Axially viewed inductively coupled plasma-atomic emission spectrometry (AVICP-AES).	200.5, Revision 4.2. ²	3113 B-04
	Atomic Absorption; Direct.	.....	.....	3111 D	3111 D
	Atomic Absorption; Furnace.	.....	.....	3113 B	3113 B
	Inductively Coupled Plasma.	.....	.....	3120 B	3120 B

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

Contaminant	Methodology	EPA method	ASTM ⁴	SM 21st Edition ¹	SM 22nd Edition ²⁸	SM Online ³
Chloride	Silver Nitrate Titration .....	.....	D 512–04 B	4500–Cl ⁻ B	4500–Cl ⁻ B	
	Ion Chromatography ..	.....	.....	4110 B	4110 B	
	Potentiometric Tita- tion.	.....	.....	4500–Cl ⁻ D	4500–Cl ⁻ D	
Color	Visual Comparison .....	.....	.....	2120 B	2120 B	
Foaming Agents ..	Methylene Blue Active Substances (MBAS).	.....	.....	5540 C	5540 C	
Iron	Axially viewed induc- tively coupled plas- ma-atomic emission spectrometry (AVICP–AES).	200.5, Revision 4.2. ²	.....	.....	.....
	Atomic Absorption; Di- rect.	.....	.....	3111 B	3111 B	
	Atomic Absorption; Furnace.	.....	.....	3113 B	3113 B	3113 B–04.
Inductively Cou- pled Plasma.	.....	.....	3120 B	3120 B .....	.....
Manganese	Axially viewed induc- tively coupled plas- ma-atomic emission spectrometry (AVICP–AES).	200.5, Revision 4.2. ²	.....	.....	.....
	Atomic Absorption; Di- rect.	.....	.....	3111 B	3111 B	
	Atomic Absorption; Furnace.	.....	.....	3113 B	3113 B	3113 B–04.
	Inductively Coupled Plasma.	.....	.....	3120 B	3120 B	
Odor	Threshold Odor Test ..	.....	.....	2150 B	2150 B	
Silver	Axially viewed induc- tively coupled plas- ma-atomic emission spectrometry (AVICP–AES).	200.5, Revision 4.2. ² ..	.....	.....	.....
	Atomic Absorption; Di- rect.	.....	.....	3111 B	3111 B	
	Atomic Absorption; Furnace.	.....	.....	3113 B	3113 B	3113 B–04.
	Inductively Coupled Plasma.	.....	.....	3120 B	3120 B	
Sulfate	Ion Chromatography ..	.....	.....	4110 B	4110 B	
	Gravimetric with igni- tion of residue.	.....	.....	4500–SO ₄ ²⁻ C	4500–SO ₄ ²⁻ C	4500–SO ₄ ²⁻ C–97.
	Gravimetric with dry- ing of residue.	.....	.....	4500–SO ₄ ²⁻ D	4500–SO ₄ ²⁻ D	4500–SO ₄ ²⁻ D–97.
	Turbidimetric method	.....	D 516–07, 11 ..	4500–SO ₄ ²⁻ E	4500–SO ₄ ²⁻ E	4500–SO ₄ ²⁻ E–97.
	Automated methylthymol blue method.	.....	.....	4500–SO ₄ ²⁻ F	4500–SO ₄ ²⁻ F	4500–SO ₄ ²⁻ F–97.
Total Dissolved Solids.	Total Dissolved Solids Dried at 180 deg C.	.....	.....	2540 C	2540 C	
Zinc	Axially viewed induc- tively coupled plas- ma-atomic emission spectrometry (AVICP–AES).	200.5, Revision 4.2. ²	.....	.....	.....
	Atomic Absorption; Di- rect Aspiration.	.....	.....	3111 B	3111 B	
	Inductively Coupled Plasma.	.....	.....	3120 B	3120 B	

¹ 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.

² 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>.)

³ 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.

⁴ 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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⁶ *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.

⁷ Method ME355.01, Revision 1.0. “Determination of Cyanide in Drinking Water by GC/MS Headspace,” May 26, 2009. Available at <https://www.nemi.gov> or from James Eaton, H & E Testing Laboratory, 221 State Street, Augusta, ME 04333. (207) 287–2727.

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

⁹ 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/>.

¹⁰ 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.

¹¹ 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.

¹² 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>.

¹³ 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.

¹⁴ 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/>.

¹⁵ 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.

¹⁶ 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/>.

¹⁷ 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, 21 Kenton Lands Road, PO Box 18395, Erlanger, KY 41018.

¹⁸ 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/>.

¹⁹ 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>.

²⁰ 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.

²¹ 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.

²² 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>.)

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

²⁴ 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>.

²⁵ EPA Method 536. “Determination of Triazine Pesticides and their Degradates in Drinking Water by Liquid Chromatography Electrospray Ionization Tandem Mass Spectrometry (LC/ESI–MS/MS),” October 2007. EPA 815–B–07–002. Available at <http://water.epa.gov/drink/>.

²⁶ EPA Method 523. “Determination of Triazine Pesticides and their Degradates in Drinking Water by Gas Chromatography/Mass Spectrometry (GC/MS),” February 2011. EPA 815–R–11–002. Available at <http://water.epa.gov/drink/>.

²⁷ EPA Method 1623.1. “*Cryptosporidium* and *Giardia* in Water by Filtration/IMS/FA,” 2012. EPA–816–R–12–001. (Available at <http://water.epa.gov/drink/>.)

²⁸ *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.

²⁹ 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/>.

³⁰ Charm Sciences Inc. “Fast Phage Test Procedure. Presence/Absence for Coliphage in Ground Water with Same Day Positive Prediction”. Version 009. November 2012. 659 Andover Street, Lawrence, MA 01843. Available at www.charmsciences.com.

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ENVIRONMENTAL PROTECTION AGENCY

40 CFR Part 180

[EPA–HQ–OPP–2012–0283; FRL–9387–4]

Azoxystrobin; Pesticide Tolerance; Technical Correction

AGENCY: Environmental Protection Agency (EPA).

ACTION: Final rule; Technical Correction.

SUMMARY: EPA issued a final rule in the *Federal Register* of April 24, 2013, establishing new and modifying existing tolerances for residues of azoxystrobin. EPA inadvertently omitted the revised tolerance for wheat, forage to the table in the regulatory text. This document corrects that omission.

DATES: This technical correction is effective May 31, 2013.

ADDRESSES: The docket for this action, identified by docket identification (ID) number EPA–HQ–OPP–2012–0283, is available at <http://www.regulations.gov> or at the Office of Pesticide Programs Regulatory Public Docket (OPP Docket) in the Environmental Protection Agency Docket Center (EPA/DC), EPA West Bldg., Rm. 3334, 1301 Constitution Ave. NW., Washington, DC 20460–0001. The 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 OPP Docket is (703) 305–5805. Please review the visitor instructions and additional information about the docket available at <http://www.epa.gov/dockets>.

FOR FURTHER INFORMATION CONTACT: Erin Malone, Registration Division (7505P), Office of Pesticide Programs, Environmental Protection Agency, 1200 Pennsylvania Ave., NW., Washington DC 20460–0001; telephone number: (703) 347–0253; email address: malone.erin@epa.gov.

SUPPLEMENTARY INFORMATION:

I. Does this action apply to me?

The Agency included in the April 24, 2013 final rule a list of those who may be potentially affected by this action.