

## **Analytical Methods Recommended for Drinking Water Monitoring of Secondary Contaminants**

Analysis for the following contaminants may be conducted in accordance with the methods in the following table, or their equivalent as determined by EPA. Methods for copper, fluoride, and pH are listed in 40 CFR 141.23 and methods for the remaining contaminants are in 40 CFR 143.4. Additional methods are listed in Appendix A to Subpart C of Part 141. The recommended monitoring for these contaminants is specified in 40 CFR 143.4.

The CFR is the legal reference for approved methods and takes precedent over this table. The table should accurately reflect the analytical methods information published in 40 CFR 141. If discrepancies are found, please notify the Safe Drinking Water Hotline (800-426-4791) so that EPA can correct the table.

Contaminant Organization	Method Number	Reference Title	Date	EPA Publication Number	Publication Order No.	Source of Method				
Aluminum		procedures are contained in Se	Criteria for analyzing aluminum, copper, iron, manganese, silver, and zinc samples with digestion or directly without digestion, and other recommended procedures are contained in Section IV of Technical Notes on Drinking Water Methods (EPA/600/R-94/173) available through EPA's digital publications National Environmental Publications Internet Site (NEPIS) database ( <a href="http://www.epa.gov/nscep/">http://www.epa.gov/nscep/</a> ).							
EPA	200.5, Rev. 4.2	Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma – Atomic Emission Spectrometry	October 2003	EPA/600-R- 06/115		http://www.epa.gov/nerlcwww/ordmeth.htm				
EPA	200.7, Rev. 4.4	In Methods for the Determination of Metals in Environmental Samples, Supplement I	May 1994	EPA/600/R- 94/111	PB95-125472	https://www.nemi.gov				
EPA	200.8, Rev. 5.4	In Methods for the Determination of Metals in Environmental Samples, Supplement I	May 1994	EPA/600/R- 94/111	PB95-125472	https://www.nemi.gov				
EPA	200.9, Rev. 2.2	In Methods for the Determination of Metals in Environmental Samples, Supplement I	May 1994	EPA/600/R- 94/111	PB95-125472	https://www.nemi.gov				
Standard Methods	3111 D	Standard Methods for the Examination of Water and Wastewater, 18 <sup>th</sup> Edition	1992			Standard Methods				
Standard Methods	3111 D	Standard Methods for the Examination of Water and Wastewater, 19 <sup>th</sup> Edition	1995			Standard Methods				
Standard Methods	3111 D	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods				

Office of Water (MS – 4606 M) EPA 815-B-14-005 January 2014

Contaminant Organization	Method Number	Reference Title	Date	EPA Publication Number	Publication Order No.	Source of Method
Standard Methods	3111 D	Standard Methods for the Examination of Water and Wastewater, 22 <sup>nd</sup> Edition	2012			Standard Methods
Standard Methods	3113 B	Standard Methods for the Examination of Water and Wastewater, 18 <sup>th</sup> Edition	1992			Standard Methods
Standard Methods	3113 B	Standard Methods for the Examination of Water and Wastewater, 19 <sup>th</sup> Edition	1995			Standard Methods
Standard Methods	3113 B	Standard Methods for the Examination of Water and Wastewater, 21 <sup>st</sup> Edition	2005			Standard Methods
Standard Methods	3113 B	Standard Methods for the Examination of Water and Wastewater, 22 <sup>nd</sup> Edition	2012			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 18 <sup>th</sup> Edition	1992			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 19 <sup>th</sup> Edition	1995			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 20 <sup>th</sup> Edition	1998			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 21 <sup>st</sup> Edition	2005			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 22 <sup>nd</sup> Edition	2012			Standard Methods
Standard Methods Online	3111 D-99	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.				http://www.standardmethods.org

Contaminant Organization	Method Number	Reference Title	Date	EPA Publication Number	Publication Order No.	Source of Method
Standard Methods Online	3113 B-04	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.				http://www.standardmethods.org
Standard Methods Online	3113 B-99	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.				http://www.standardmethods.org
Standard Methods Online	3120 B-99	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.				http://www.standardmethods.org
Chloride						
ASTM International	D4327-03	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org
ASTM International	D4327-97	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org
ASTM International	D512-04 B	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org
ASTM International	D512-89 B (Reapproved 1999)	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org

Contaminant Organization	Method Number	Reference Title	Date	EPA Publication Number	Publication Order No.	Source of Method
EPA	300.0, Rev. 2.1	In Methods for the Determination of Inorganic Substances in Environmental Samples	August 1993	EPA/600/R- 93/100	PB94-120821	https://www.nemi.gov
ЕРА	300.1, Rev. 1.0	In Methods for the Determination of Organic and Inorganic Compounds in Drinking Water, Vol. 1	August 2000	EPA 815-R-00- 014	PB2000- 106981	http://water.epa.gov/scitech/drinkingwater/labcert/methods_index.cfm
Standard Methods	4110 B	Standard Methods for the Examination of Water and Wastewater, 18 <sup>th</sup> Edition	1992			Standard Methods
Standard Methods	4110 B	Standard Methods for the Examination of Water and Wastewater, 19 <sup>th</sup> Edition	1995			Standard Methods
Standard Methods	4110 B	Standard Methods for the Examination of Water and Wastewater, 20 <sup>th</sup> Edition	1998			Standard Methods
Standard Methods	4110 B	Standard Methods for the Examination of Water and Wastewater, 21 <sup>st</sup> Edition	2005			Standard Methods
Standard Methods	4110 B	Standard Methods for the Examination of Water and Wastewater, 22 <sup>nd</sup> Edition	2012			Standard Methods
Standard Methods	4500-Cl <sup>-</sup> B	Standard Methods for the Examination of Water and Wastewater, 18 <sup>th</sup> Edition	1992			Standard Methods
Standard Methods	4500-Cl <sup>-</sup> B	Standard Methods for the Examination of Water and Wastewater, 19 <sup>th</sup> Edition	1995			Standard Methods
Standard Methods	4500-Cl <sup>-</sup> B	Standard Methods for the Examination of Water and Wastewater, 20 <sup>th</sup> Edition	1998			Standard Methods
Standard Methods	4500-Cl <sup>-</sup> B	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
Standard Methods	4500-Cl <sup>-</sup> B	Standard Methods for the Examination of Water and Wastewater, 22 <sup>nd</sup> Edition	2012			Standard Methods
Standard Methods	4500-Cl <sup>-</sup> D	Standard Methods for the Examination of Water and Wastewater, 18 <sup>th</sup> Edition	1992			Standard Methods
Standard Methods	4500-Cl <sup>-</sup> D	Standard Methods for the Examination of Water and Wastewater, 19 <sup>th</sup> Edition	1995			Standard Methods
Standard Methods	4500-Cl <sup>-</sup> D	Standard Methods for the Examination of Water and Wastewater, 20 <sup>th</sup> Edition	1998			Standard Methods

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Standard Methods	4500-Cl <sup>-</sup> D	Standard Methods for the Examination of Water and Wastewater, 22 <sup>nd</sup> Edition	2012			Standard Methods
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Waters Corporation	Method D6508, Revision 2	Test Method for Determination of Dissolved Inorganic Anions in Aqueous Matrices Using Capillary Ion Electrophoresis and Chromate Electrolyte				Water Corporation

Contaminant Organization	Method Number	Reference Title	Date	EPA Publication Number	Publication Order No.	Source of Method		
Color								
Standard Methods	2120 B	Standard Methods for the Examination of Water and Wastewater, 18 <sup>th</sup> Edition	1992			Standard Methods		
Standard Methods	2120 B	Standard Methods for the Examination of Water and Wastewater, 19 <sup>th</sup> Edition	1995			Standard Methods		
Standard Methods	2120 B	Standard Methods for the Examination of Water and Wastewater, 20 <sup>th</sup> Edition	1998			Standard Methods		
Standard Methods	2120 B	Standard Methods for the Examination of Water and Wastewater, 21 <sup>st</sup> Edition	2005			Standard Methods		
Standard Methods	2120 B	Standard Methods for the Examination of Water and Wastewater, 22 <sup>nd</sup> Edition	2012			Standard Methods		
Standard Methods Online	2120 B-01	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.				http://www.standardmethods.org		
Copper		Criteria for analyzing aluminum, copper, iron, manganese, silver, and zinc samples with digestion or directly without digestion, and other recommended procedures are contained in Section IV of Technical Notes on Drinking Water Methods (EPA/600/R-94/173) available through EPA's digital publications National Environmental Publications Internet Site (NEPIS) database ( <a href="http://www.epa.gov/nscep/">http://www.epa.gov/nscep/</a> ).						
ASTM International	D1688-07 A	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org		
ASTM International	D1688-02 A	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org		
ASTM International	D1688-95 A	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org		
ASTM International	D1688-90 A	Annual Book of ASTM Standards, Vol. 11.01				ASTM International (ASTM)		
ASTM International	D1688-07 C	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org		
ASTM International	D1688-02 C	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org		

Contaminant Organization	Method Number	Reference Title	Date	EPA Publication Number	Publication Order No.	Source of Method
ASTM International	D1688-95 C	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org
ASTM International	D1688-90 C	Annual Book of ASTM Standards, Vol. 11.01				ASTM International (ASTM)
ЕРА	200.5, Rev. 4.2	Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma - Atomic Emission Spectrometry	October 2003	EPA/600-R- 06/115		http://www.epa.gov/nerlcwww/ordmeth.htm
ЕРА	200.7, Rev. 4.4	In Methods for the Determination of Metals in Environmental Samples, Supplement I	May 1994	EPA/600/R- 94/111	PB95-125472	https://www.nemi.gov
EPA	200.8, Rev. 5.4	In Methods for the Determination of Metals in Environmental Samples, Supplement I	May 1994	EPA/600/R- 94/111	PB95-125472	https://www.nemi.gov
ЕРА	200.9, Rev. 2.2	In Methods for the Determination of Metals in Environmental Samples, Supplement I	May 1994	EPA/600/R- 94/111	PB95-125472	https://www.nemi.gov
Standard Methods	3111 B	Standard Methods for the Examination of Water and Wastewater, 18 <sup>th</sup> Edition	1992			Standard Methods
Standard Methods	3111 B	Standard Methods for the Examination of Water and Wastewater, 19 <sup>th</sup> Edition	1995			Standard Methods
Standard Methods	3111 B	Standard Methods for the Examination of Water and Wastewater, 21 <sup>st</sup> Edition	2005			Standard Methods
Standard Methods	3111 B	Standard Methods for the Examination of Water and Wastewater, 22 <sup>nd</sup> Edition	2012			Standard Methods
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Standard Methods	3113 B	Standard Methods for the Examination of Water and Wastewater, 21 <sup>st</sup> Edition	2005			Standard Methods
Standard Methods	3113 B	Standard Methods for the Examination of Water and Wastewater, 22 <sup>nd</sup> Edition	2012			Standard Methods

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Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 19 <sup>th</sup> Edition	1995			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 20 <sup>th</sup> Edition	1998			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 21 <sup>st</sup> Edition	2005			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 22 <sup>nd</sup> Edition	2012			Standard Methods
Standard Methods Online	3111 B-99	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.				http://www.standardmethods.org
Standard Methods Online	3113 B-04	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.				http://www.standardmethods.org

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Standard Methods Online	3113 B-99	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.				http://www.standardmethods.org
Standard Methods Online	3120 B-99	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.				http://www.standardmethods.org
Fluoride						
ASTM International	D1179-10 B	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org
ASTM International	D1179-04 B	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org
ASTM International	D1179-99 B	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org
ASTM International	D1179-93 B	Annual Book of ASTM Standards, Vol. 11.01				ASTM International (ASTM)
ASTM International	D4327-03	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org
ASTM International	D4327-97	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org
Bran + Luebbe	129-71 W	Fluoride in Water and Wastewater	December 1972			Bran + Luebbe
Bran + Luebbe	380-75 WE	Fluoride in Water and Wastewater	February 1976			Bran + Luebbe
EPA	300.0, Rev. 2.1	In Methods for the Determination of Inorganic Substances in Environmental Samples	August 1993	EPA/600/R- 93/100	PB94-120821	https://www.nemi.gov

Contaminant Organization	Method Number	Reference Title	Date	EPA Publication Number	Publication Order No.	Source of Method
EPA	300.1, Rev. 1.0	In Methods for the Determination of Organic and Inorganic Compounds in Drinking Water, Vol. 1	August 2000	EPA 815-R-00- 014	PB2000- 106981	http://water.epa.gov/scitech/drinkingwater/labcert/methods_index.cfm
Hach Co.	10225	Hach Company SPADNS 2 (Arsenic-free) Fluoride Method 10225 – Spectrophotometric Measurement of Fluoride in Water and Wastewater	January 2011			http://www.hach.com
Standard Methods	4110 B	Standard Methods for the Examination of Water and Wastewater, 18 <sup>th</sup> Edition	1992			Standard Methods
Standard Methods	4110 B	Standard Methods for the Examination of Water and Wastewater, 19 <sup>th</sup> Edition	1995			Standard Methods
Standard Methods	4110 B	Standard Methods for the Examination of Water and Wastewater, 20 <sup>th</sup> Edition	1998			Standard Methods
Standard Methods	4110 B	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
Standard Methods	4110 B	Standard Methods for the Examination of Water and Wastewater, 22 <sup>nd</sup> Edition	2012			Standard Methods
Standard Methods	4500-F B	Standard Methods for the Examination of Water and Wastewater, 18 <sup>th</sup> Edition	1992			Standard Methods
Standard Methods	4500-F B	Standard Methods for the Examination of Water and Wastewater, 19 <sup>th</sup> Edition	1995			Standard Methods
Standard Methods	4500-F B	Standard Methods for the Examination of Water and Wastewater, 20 <sup>th</sup> Edition	1998			Standard Methods
Standard Methods	4500-F B	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
Standard Methods	4500-F B	Standard Methods for the Examination of Water and Wastewater, 22 <sup>nd</sup> Edition	2012			Standard Methods
Standard Methods	4500-F C	Standard Methods for the Examination of Water and Wastewater, 18 <sup>th</sup> Edition	1992			Standard Methods
Standard Methods	4500-F C	Standard Methods for the Examination of Water and Wastewater, 19 <sup>th</sup> Edition	1995			Standard Methods

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Standard Methods	4500-F C	Standard Methods for the Examination of Water and Wastewater, 21 <sup>st</sup> Edition	2005			Standard Methods
Standard Methods	4500-F C	Standard Methods for the Examination of Water and Wastewater, 22 <sup>nd</sup> Edition	2012			Standard Methods
Standard Methods	4500-F D	Standard Methods for the Examination of Water and Wastewater, 18 <sup>th</sup> Edition	1992			Standard Methods
Standard Methods	4500-F D	Standard Methods for the Examination of Water and Wastewater, 19 <sup>th</sup> Edition	1995			Standard Methods
Standard Methods	4500-F D	Standard Methods for the Examination of Water and Wastewater, 20 <sup>th</sup> Edition	1998			Standard Methods
Standard Methods	4500-F D	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
Standard Methods	4500-F D	Standard Methods for the Examination of Water and Wastewater, 22 <sup>nd</sup> Edition	2012			Standard Methods
Standard Methods	4500-F⁻ E	Standard Methods for the Examination of Water and Wastewater, 18 <sup>th</sup> Edition	1992			Standard Methods
Standard Methods	4500-F E	Standard Methods for the Examination of Water and Wastewater, 19 <sup>th</sup> Edition	1995			Standard Methods
Standard Methods	4500-F⁻ E	Standard Methods for the Examination of Water and Wastewater, 20 <sup>th</sup> Edition	1998			Standard Methods
Standard Methods	4500-F⁻ E	Standard Methods for the Examination of Water and Wastewater, 21 <sup>st</sup> Edition	2005			Standard Methods
Standard Methods	4500-F E	Standard Methods for the Examination of Water and Wastewater, 22 <sup>nd</sup> Edition	2012			Standard Methods

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Standard Methods Online	4110 B-00	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.				http://www.standardmethods.org
Standard Methods Online	4500-F B-97	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.				http://www.standardmethods.org
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Standard Methods Online	4500-F E-97	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.				http://www.standardmethods.org
Waters Corporation	Method D6508, Rev. 2	Test Method for Determination of Dissolved Inorganic Anions in Aqueous Matrices Using Capillary Ion Electrophoresis and Chromate Electrolyte				Waters Corporation
Foaming Agent						
Standard Methods	5540 C	Standard Methods for the Examination of Water and Wastewater, 18 <sup>th</sup> Edition	1992			Standard Methods
Standard Methods	5540 C	Standard Methods for the Examination of Water and Wastewater, 19 <sup>th</sup> Edition	1995			Standard Methods
Standard Methods	5540 C	Standard Methods for the Examination of Water and Wastewater, 20 <sup>th</sup> Edition	1998			Standard Methods
Standard Methods	5540 C	Standard Methods for the Examination of Water and Wastewater, 21 <sup>st</sup> Edition	2005			Standard Methods
Standard Methods	5540 C	Standard Methods for the Examination of Water and Wastewater, 22 <sup>nd</sup> Edition	2012			Standard Methods
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Contaminant Organization	Method Number	Reference Title	Date	EPA Publication Number	Publication Order No.	Source of Method				
Iron		procedures are contained in Se	Criteria for analyzing aluminum, copper, iron, manganese, silver, and zinc samples with digestion or directly without digestion, and other recommended procedures are contained in Section IV of Technical Notes on Drinking Water Methods (EPA/600/R-94/173) available through EPA's digital publications National Environmental Publications Internet Site (NEPIS) database ( <a href="http://www.epa.gov/nscep/">http://www.epa.gov/nscep/</a> ).							
EPA	200.5, Rev. 4.2	Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma – Atomic Emission Spectrometry	October 2003	EPA/600-R- 06/115		http://www.epa.gov/nerlcwww/ordmeth.htm				
EPA	200.7, Rev. 4.4	In Methods for the Determination of Metals in Environmental Samples, Supplement I	May 1994	EPA/600/R- 94/111	PB95-125472	https://www.nemi.gov				
EPA	200.9, Rev. 2.2	In Methods for the Determination of Metals in Environmental Samples, Supplement I	May 1994	EPA/600/R- 94/111	PB95-125472	https://www.nemi.gov				
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Standard Methods	3111 B	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods				
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Manganese			ction IV of Tec	chnical Notes on Drin	king Water Metho	th digestion or directly without digestion, and other recommended ds (EPA/600/R-94/173) available through EPA's digital publications .gov/nscep/).
EPA	200.5, Rev. 4.2	Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma – Atomic Emission Spectrometry	October 2003	EPA/600-R- 06/115		http://www.epa.gov/nerlcwww/ordmeth.htm
EPA	200.7, Rev. 4.4	In Methods for the Determination of Metals in Environmental Samples, Supplement I	May 1994	EPA/600/R- 94/111	PB95-125472	https://www.nemi.gov
EPA	200.8, Rev. 5.4	In Methods for the Determination of Metals in Environmental Samples, Supplement I	May 1994	EPA/600/R- 94/111	PB95-125472	https://www.nemi.gov
ЕРА	200.9, Rev. 2.2	In Methods for the Determination of Metals in Environmental Samples, Supplement I	May 1994	EPA/600/R- 94/111	PB95-125472	https://www.nemi.gov
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Standard Methods	3111 B	Standard Methods for the Examination of Water and Wastewater, 22 <sup>nd</sup> Edition	2012			Standard Methods

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Standard Methods	3113 B	Standard Methods for the Examination of Water and Wastewater, 18 <sup>th</sup> Edition	1992			Standard Methods
Standard Methods	3113 B	Standard Methods for the Examination of Water and Wastewater, 19 <sup>th</sup> Edition	1995			Standard Methods
Standard Methods	3113 B	Standard Methods for the Examination of Water and Wastewater, 21 <sup>st</sup> Edition	2005			Standard Methods
Standard Methods	3113 B	Standard Methods for the Examination of Water and Wastewater, 22 <sup>nd</sup> Edition	2012			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 18 <sup>th</sup> Edition	1992			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 19 <sup>th</sup> Edition	1995			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 20 <sup>th</sup> Edition	1998			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 21 <sup>st</sup> Edition	2005			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 22 <sup>nd</sup> Edition	2012			Standard Methods
Standard Methods Online	3111 B-99	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.				http://www.standardmethods.org

Contaminant Organization	Method Number	Reference Title	Date	EPA Publication Number	Publication Order No.	Source of Method
Standard Methods Online	3113 B-04	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.				http://www.standardmethods.org
Standard Methods Online	3113 B-99	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.				http://www.standardmethods.org
Standard Methods Online	3120 B-99	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.				http://www.standardmethods.org
Odor						
Standard Methods	2150 B	Standard Methods for the Examination of Water and Wastewater, 18 <sup>th</sup> Edition	1992			Standard Methods
Standard Methods	2150 B	Standard Methods for the Examination of Water and Wastewater, 19 <sup>th</sup> Edition	1995			Standard Methods
Standard Methods	2150 B	Standard Methods for the Examination of Water and Wastewater, 20 <sup>th</sup> Edition	1998			Standard Methods

Contaminant Organization	Method Number	Reference Title	Date	EPA Publication Number	Publication Order No.	Source of Method
Standard Methods	2150 B	Standard Methods for the Examination of Water and Wastewater, 21 <sup>st</sup> Edition	2005			Standard Methods
Standard Methods	2150 B	Standard Methods for the Examination of Water and Wastewater, 22 <sup>nd</sup> Edition	2012			Standard Methods
Standard Methods Online	2150 B-97	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.				http://www.standardmethods.org
pН						
ASTM International	D1293-12	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org
ASTM International	D1293-99	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org
ASTM International	D1293-95	Annual Book of ASTM Standards, Vol. 11.01				ASTM International (ASTM)
ASTM International	D1293-84	Annual Book of ASTM Standards, Vol. 11.01				ASTM International (ASTM)
EPA	150.1	In Methods for Chemical Analysis of Water and Wastes	March 1983	EPA/600/4- 79/020	PB84-128677	https://www.nemi.gov
EPA	150.2	In Methods for Chemical Analysis of Water and Wastes	March 1983	EPA/600/4- 79/020	PB84-128677	https://www.nemi.gov
Standard Methods	4500-H <sup>+</sup> B	Standard Methods for the Examination of Water and Wastewater, 18 <sup>th</sup> Edition	1992			Standard Methods
Standard Methods	4500-H <sup>+</sup> B	Standard Methods for the Examination of Water and Wastewater, 19 <sup>th</sup> Edition	1995			Standard Methods
Standard Methods	4500-H <sup>+</sup> B	Standard Methods for the Examination of Water and Wastewater, 20 <sup>th</sup> Edition	1998			Standard Methods
Standard Methods	4500-H <sup>+</sup> B	Standard Methods for the Examination of Water and Wastewater, 21 <sup>st</sup> Edition	2005			Standard Methods

Contaminant Organization	Method Number	Reference Title	Date	EPA Publication Number	Publication Order No.	Source of Method
Standard Methods	4500-H <sup>+</sup> B	Standard Methods for the Examination of Water and Wastewater, 22 <sup>nd</sup> Edition	2012			Standard Methods
Standard Methods Online	4500-H <sup>+</sup> B-00	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.				http://www.standardmethods.org
Silver			ction IV of Tec	chnical Notes on Drinl	king Water Metho	ith digestion or directly without digestion, and other recommended ds (EPA/600/R-94/173) available through EPA's digital publications .gov/nscep/).
ЕРА	200.5, Rev. 4.2	Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma – Atomic Emission Spectrometry	October 2003	EPA/600-R- 06/115		http://www.epa.gov/nerlcwww/ordmeth.htm
EPA	200.7, Rev. 4.4	In Methods for the Determination of Metals in Environmental Samples, Supplement I	May 1994	EPA/600/R- 94/111	PB95-125472	https://www.nemi.gov
EPA	200.8, Rev. 5.4	In Methods for the Determination of Metals in Environmental Samples, Supplement I	May 1994	EPA/600/R- 94/111	PB95-125472	https://www.nemi.gov
ЕРА	200.9, Rev. 2.2	In Methods for the Determination of Metals in Environmental Samples, Supplement I	May 1994	EPA/600/R- 94/111	PB95-125472	https://www.nemi.gov (i.e., no sample digestion) will be higher.
Standard Methods	3111 B	Standard Methods for the Examination of Water and Wastewater, 18 <sup>th</sup> Edition	1992			Standard Methods
Standard Methods	3111 B	Standard Methods for the Examination of Water and Wastewater, 19 <sup>th</sup> Edition	1995			Standard Methods
Standard Methods	3111 B	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods

Contaminant Organization	Method Number	Reference Title	Date	EPA Publication Number	Publication Order No.	Source of Method
Standard Methods	3111 B	Standard Methods for the Examination of Water and Wastewater, 22 <sup>nd</sup> Edition	2012			Standard Methods
Standard Methods	3113 B	Standard Methods for the Examination of Water and Wastewater, 18 <sup>th</sup> Edition	1992			Standard Methods
Standard Methods	3113 B	Standard Methods for the Examination of Water and Wastewater, 19 <sup>th</sup> Edition	1995			Standard Methods
Standard Methods	3113 B	Standard Methods for the Examination of Water and Wastewater, 21 <sup>st</sup> Edition	2005			Standard Methods
Standard Methods	3113 B	Standard Methods for the Examination of Water and Wastewater, 22 <sup>nd</sup> Edition	2012			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 18 <sup>th</sup> Edition	1992			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 19 <sup>th</sup> Edition	1995			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 20 <sup>th</sup> Edition	1998			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 21 <sup>st</sup> Edition	2005			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 22 <sup>nd</sup> Edition	2012			Standard Methods
Standard Methods Online	3111 B-99	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.				http://www.standardmethods.org

Contaminant Organization	Method Number	Reference Title	Date	EPA Publication Number	Publication Order No.	Source of Method
Standard Methods Online	3113 B-04	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.				http://www.standardmethods.org
Standard Methods Online	3113 B-99	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.				http://www.standardmethods.org
Standard Methods Online	3120 B-99	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.				http://www.standardmethods.org
U.S. Geological Survey	I-3720-85	In Methods for Determination of Inorganic Substances in Water and Fluvial Sediments, USGS Series: Techniques of Water- Resource Investigation Report; edited by Fishman, M.J. & Friedman, L.C.	1989		05-A1	http://pubs.er.usgs.gov/
Sulfate				_		

Contaminant Organization	Method Number	Reference Title	Date	EPA Publication Number	Publication Order No.	Source of Method
ASTM International	D4327-03	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org
ASTM International	D4327-97	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org
ASTM International	D516-11	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org
ASTM International	D516-07	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org
ASTM International	D516-02	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org
ASTM International	D516-90	Annual Book of ASTM Standards, Vol. 11.01				ASTM International (ASTM)
EPA	300.0, Rev. 2.1	In Methods for the Determination of Inorganic Substances in Environmental Samples	August 1993	EPA/600/R- 93/100	PB94-120821	https://www.nemi.gov
ЕРА	300.1, Rev. 1.0	In Methods for the Determination of Organic and Inorganic Compounds in Drinking Water, Vol. 1	August 2000	EPA 815-R-00- 014	PB2000- 106981	http://water.epa.gov/scitech/drinkingwater/labcert/methods_index.cfm
EPA	375.2, Rev. 2.0	In Methods for the Determination of Inorganic Substances in Environmental Samples	August 1993	EPA/600/R- 93/100	PB94-120821	https://www.nemi.gov
Standard Methods	4110 B	Standard Methods for the Examination of Water and Wastewater, 18 <sup>th</sup> Edition	1992			Standard Methods
Standard Methods	4110 B	Standard Methods for the Examination of Water and Wastewater, 19 <sup>th</sup> Edition	1995			Standard Methods
Standard Methods	4110 B	Standard Methods for the Examination of Water and Wastewater, 20 <sup>th</sup> Edition	1998			Standard Methods
Standard Methods	4110 B	Standard Methods for the Examination of Water and Wastewater, 21 <sup>st</sup> Edition	2005			Standard Methods
Standard Methods	4110 B	Standard Methods for the Examination of Water and Wastewater, 22 <sup>nd</sup> Edition	2012			Standard Methods
Standard Methods	4500-SO <sub>4</sub> <sup>2-</sup> C	Standard Methods for the Examination of Water and Wastewater, 18 <sup>th</sup> Edition	1992			Standard Methods
Standard Methods	4500-SO <sub>4</sub> <sup>2-</sup> C	Standard Methods for the Examination of Water and Wastewater, 19 <sup>th</sup> Edition	1995			Standard Methods

Contaminant Organization	Method Number	Reference Title	Date	EPA Publication Number	Publication Order No.	Source of Method
Standard Methods	4500-SO <sub>4</sub> <sup>2-</sup> C	Standard Methods for the Examination of Water and Wastewater, 20 <sup>th</sup> Edition	1998			Standard Methods
Standard Methods	4500-SO <sub>4</sub> <sup>2-</sup> C	Standard Methods for the Examination of Water and Wastewater, 21 <sup>st</sup> Edition	2005			Standard Methods
Standard Methods	4500-SO <sub>4</sub> <sup>2-</sup> C	Standard Methods for the Examination of Water and Wastewater, 22 <sup>nd</sup> Edition	2012			Standard Methods
Standard Methods	4500-SO <sub>4</sub> <sup>2-</sup> D	Standard Methods for the Examination of Water and Wastewater, 18 <sup>th</sup> Edition	1992			Standard Methods
Standard Methods	4500-SO <sub>4</sub> <sup>2-</sup> D	Standard Methods for the Examination of Water and Wastewater, 19 <sup>th</sup> Edition	1995			Standard Methods
Standard Methods	4500-SO <sub>4</sub> <sup>2-</sup> D	Standard Methods for the Examination of Water and Wastewater, 20 <sup>th</sup> Edition	1998			Standard Methods
Standard Methods	4500-SO <sub>4</sub> <sup>2-</sup> D	Standard Methods for the Examination of Water and Wastewater, 21 <sup>st</sup> Edition	2005			Standard Methods
Standard Methods	4500-SO <sub>4</sub> <sup>2-</sup> D	Standard Methods for the Examination of Water and Wastewater, 22 <sup>nd</sup> Edition	2012			Standard Methods
Standard Methods	4500-SO <sub>4</sub> <sup>2-</sup> E	Standard Methods for the Examination of Water and Wastewater, 18 <sup>th</sup> Edition	1992			Standard Methods
Standard Methods	4500-SO <sub>4</sub> <sup>2-</sup> E	Standard Methods for the Examination of Water and Wastewater, 19 <sup>th</sup> Edition	1995			Standard Methods
Standard Methods	4500-SO <sub>4</sub> <sup>2-</sup> E	Standard Methods for the Examination of Water and Wastewater, 20 <sup>th</sup> Edition	1998			Standard Methods
Standard Methods	4500-SO <sub>4</sub> <sup>2-</sup> E	Standard Methods for the Examination of Water and Wastewater, 21 <sup>st</sup> Edition	2005			Standard Methods
Standard Methods	4500-SO <sub>4</sub> <sup>2-</sup> E	Standard Methods for the Examination of Water and Wastewater, 22 <sup>nd</sup> Edition	2012			Standard Methods
Standard Methods	4500-SO <sub>4</sub> <sup>2-</sup> F	Standard Methods for the Examination of Water and Wastewater, 18 <sup>th</sup> Edition	1992			Standard Methods
Standard Methods	4500-SO <sub>4</sub> <sup>2-</sup> F	Standard Methods for the Examination of Water and Wastewater, 19 <sup>th</sup> Edition	1995			Standard Methods

Contaminant Organization	Method Number	Reference Title	Date	EPA Publication Number	Publication Order No.	Source of Method
Standard Methods	4500-SO <sub>4</sub> <sup>2-</sup> F	Standard Methods for the Examination of Water and Wastewater, 20 <sup>th</sup> Edition	1998			Standard Methods
Standard Methods	4500-SO <sub>4</sub> <sup>2-</sup> F	Standard Methods for the Examination of Water and Wastewater, 21 <sup>st</sup> Edition	2005			Standard Methods
Standard Methods	4500-SO <sub>4</sub> <sup>2-</sup> F	Standard Methods for the Examination of Water and Wastewater, 22 <sup>nd</sup> Edition	2012			Standard Methods
Standard Methods Online	4110 B-00	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.				http://www.standardmethods.org
Standard Methods Online	4500-SO <sub>4</sub> <sup>2-</sup> C- 97	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.				http://www.standardmethods.org
Standard Methods Online	4500-SO <sub>4</sub> <sup>2-</sup> D- 97	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.				http://www.standardmethods.org

Contaminant Organization	Method Number	Reference Title	Date	EPA Publication Number	Publication Order No.	Source of Method
Standard Methods Online	4500-SO <sub>4</sub> <sup>2-</sup> E- 97	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.				http://www.standardmethods.org
Standard Methods Online	4500-SO <sub>4</sub> <sup>2-</sup> F- 97	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.				http://www.standardmethods.org
Waters Corporation	Method D6508, Revision 2	Test Method for Determination of Dissolved Inorganic Anions in Aqueous Matrices Using Capillary Ion Electrophoresis and Chromate Electrolyte				Waters Corporation
TDS						
Standard Methods	2540 C	Standard Methods for the Examination of Water and Wastewater, 18 <sup>th</sup> Edition	1992			Standard Methods
Standard Methods	2540 C	Standard Methods for the Examination of Water and Wastewater, 19 <sup>th</sup> Edition	1995			Standard Methods
Standard Methods	2540 C	Standard Methods for the Examination of Water and Wastewater, 20 <sup>th</sup> Edition	1998			Standard Methods
Standard Methods	2540 C	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods

Contaminant Organization	Method Number	Reference Title	Date	EPA Publication Number	Publication Order No.	Source of Method		
Standard Methods	2540 C	Standard Methods for the Examination of Water and Wastewater, 22 <sup>nd</sup> Edition	2012			Standard Methods		
Standard Methods Online	2540 C-97	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.				http://www.standardmethods.org		
Zinc		Criteria for analyzing aluminum, copper, iron, manganese, silver, and zinc samples with digestion or directly without digestion, and other recommended procedures are contained in Section IV of Technical Notes on Drinking Water Methods (EPA/600/R-94/173) available through EPA's digital publications National Environmental Publications Internet Site (NEPIS) database ( <a href="http://www.epa.gov/nscep/">http://www.epa.gov/nscep/</a> ).						
EPA	200.5, Rev. 4.2	Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma – Atomic Emission Spectrometry	October 2003	EPA/600-R- 06/115		http://www.epa.gov/nerlcwww/ordmeth.htm		
EPA	200.7, Rev. 4.4	In Methods for the Determination of Metals in Environmental Samples, Supplement I	May 1994	EPA/600/R- 94/111	PB95-125472	https://www.nemi.gov		
EPA	200.8, Rev. 5.4	In Methods for the Determination of Metals in Environmental Samples, Supplement I	May 1994	EPA/600/R- 94/111	PB95-125472	https://www.nemi.gov		
Standard Methods	3111 B	Standard Methods for the Examination of Water and Wastewater, 18 <sup>th</sup> Edition	1992			Standard Methods		
Standard Methods	3111 B	Standard Methods for the Examination of Water and Wastewater, 19 <sup>th</sup> Edition	1995			Standard Methods		
Standard Methods	3111 B	Standard Methods for the Examination of Water and Wastewater, 21 <sup>st</sup> Edition	2005			Standard Methods		
Standard Methods	3111 B	Standard Methods for the Examination of Water and Wastewater, 22 <sup>nd</sup> Edition	2012			Standard Methods		
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 18 <sup>th</sup> Edition	1992			Standard Methods		

Contaminant Organization	Method Number	Reference Title	Date	EPA Publication Number	Publication Order No.	Source of Method
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 19 <sup>th</sup> Edition	1995			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 20 <sup>th</sup> Edition	1998			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 21 <sup>st</sup> Edition	2005			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 22 <sup>nd</sup> Edition	2012			Standard Methods
Standard Methods Online	3111 B-99	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.				http://www.standardmethods.org
Standard Methods Online	3120 B-99	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.				http://www.standardmethods.org