

Analytical Methods Approved for Drinking Water Compliance Monitoring of Inorganic Contaminants and Other Inorganic Constituents

Analysis for the following inorganic contaminants and constituents shall be conducted in accordance with the methods in the following table, or their equivalent as determined by EPA. The methods are specified in 40 CFR 141.23 and Appendix A to Subpart C of Part 141. The monitoring requirements are specified in 40 CFR 141.23, 141.41, 141.86 – 141.88, and 141.135.

The CFR is the legal reference for approved methods and takes precedence 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.

Alkalinity

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
D1067-92 B	ASTM International	Standard Test Methods for Acidity or Alkalinity of Water: Electrometric or Color-Change Titration	1992		ASTM International
D1067-02 B	ASTM International	Standard Test Methods for Acidity or Alkalinity of Water: Electrometric or Color-Change Titration	2002		ASTM International
D1067-06 B	ASTM International	Standard Test Methods for Acidity or Alkalinity of Water: Electrometric or Color-Change Titration	2006		ASTM International
D1067-11 B	ASTM International	Standard Test Methods for Acidity or Alkalinity of Water: Electrometric or Color-Change Titration	2011		ASTM International
2320 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
2320 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
2320 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods
2320 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
2320 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
2320 B-97	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods
I-1030-85	US Geological Survey	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. and Friedman, L.C.	1989		<u>USGS</u>

Antimony

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
D3697-92	ASTM International	Standard Test Method for Antimony in Water	1992		ASTM International
D3697-02	ASTM International	Standard Test Method for Antimony in Water	2002		ASTM International
D3697-07	ASTM International	Standard Test Method for Antimony in Water	2007		ASTM International
D3697-12	ASTM International	Standard Test Method for Antimony in Water	2012		ASTM International
200.5, Rev. 4.2	EPA	Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma – Atomic Emission Spectrometry	October 2003	EPA/600-R-06/115	<u>National Environmental Methods</u> <u>Index</u>

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
200.8, Rev. 5.4	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I	May 1994	EPA/600/R-94/111	National Environmental Methods Index
200.9, Rev. 2.2	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I Note: Preconcentration may be required for direct analysis of antimony by Method 200.9	May 1994	EPA/600/R-94/111	<u>National Environmental Methods</u> <u>Index</u>
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition Note: Preconcentration may be required for direct analysis of antimony by Method 3113 B unless multiple in-furnace depositions are made	1992		<u>Standard Methods</u>
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition Note: Preconcentration may be required for direct analysis of antimony by Method 3113 B unless multiple in-furnace depositions are made	1995		<u>Standard Methods</u>
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition Note: Preconcentration may be required for direct analysis of antimony by Method 3113 B unless multiple in-furnace depositions are made	2005		<u>Standard Methods</u>
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition Note: Preconcentration may be required for direct analysis of antimony by Method 3113 B	2012		Standard Methods

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
		unless multiple in-furnace depositions are made			
3113 B-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved. Note: Preconcentration may be required for direct analysis of antimony by Method 3113 B-99 unless multiple in-furnace depositions are made			<u>Standard Methods</u>
3113 B-04	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved. Note: Preconcentration may be required for direct analysis of antimony by Method 3113 B-04 unless multiple in-furnace depositions are made			<u>Standard Methods</u>
3113 B-10	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved. Note: Preconcentration may be required for direct analysis of antimony by Method 3113 B-10 unless multiple in-furnace depositions are made			<u>Standard Methods</u>

Arsenic

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
D2972-97 B	ASTM International	Standard Test Methods for Arsenic in Water – Atomic Absorption, Hydride Generation	1997		ASTM International
D2972-03 B	ASTM International	Standard Test Methods for Arsenic in Water – Atomic Absorption, Hydride Generation	2003		ASTM International
D2972-08 B	ASTM International	Standard Test Methods for Arsenic in Water – Atomic Absorption, Hydride Generation	2008		ASTM International
D2972-97 C	ASTM International	Standard Test Methods for Arsenic in Water – Atomic Absorption, Graphite Furnace	1997		ASTM International
D2972-03 C	ASTM International	Standard Test Methods for Arsenic in Water – Atomic Absorption, Graphite Furnace	2003		ASTM International
D2082-08 C	ASTM International	Standard Test Methods for Arsenic in Water – Atomic Absorption, Graphite Furnace	2008		ASTM International
200.5, Rev. 4.2	EPA	Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma – Atomic Emission Spectrometry	October 2003	EPA/600-R-06/115	<u>National Environmental Methods</u> <u>Index</u>
200.8, Rev. 5.4	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I Note: If ultrasonic nebulization is used in determination of arsenic by Method 200.8, the arsenic must be in the pentavalent state to provide uniform response. For direct analysis of arsenic by Method 200.8 using ultrasonic	May 1994	EPA/600/R-94/111	<u>National Environmental Methods</u> <u>Index</u>

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
		nebulization, samples and standards must contain one mg/L sodium hypochlorite.			
200.9, Rev. 2.2	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I Note: MDLs reported in Methods 200.7 and 200.9 were determined using a 2X preconcentration step during sample digestion; MDLs determined by direct analysis (i.e., no sample digestion) will be higher.	May 1994	EPA/600/R-94/111	<u>National Environmental Methods</u> <u>Index</u>
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
3114 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
3114 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
3114 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
3114 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
3113 B-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits.			Standard Methods

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
		Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			
3113 B-04	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			<u>Standard Methods</u>
3113 B-10	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			<u>Standard Methods</u>
3114 B-97	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			<u>Standard Methods</u>
3114 B-09	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods

Asbestos

Guidance on conducting asbestos analysis is described in Section V of *Technical Notes on Drinking Water Methods* (EPA/600/R-94/173) available through EPA's digital publications National Environmental Publications Internet Site (EPA/600/R-94/173).

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
100.1	EPA	Analytical Method for the Determination of Asbestos Fibers in Water	September 1983	EPA/600/4-83-043	National Environmental Methods Index

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
100.2	EPA	Determination of Asbestos Structures over 10 μm in Length in Drinking Water	June 1994	EPA/600R-94/134	<u>National Environmental Methods</u> <u>Index</u>

Barium

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
200.5, Rev. 4.2	EPA	Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma – Atomic Emission Spectrometry	October 2003	EPA/600-R-06/115	National Environmental Methods Index
200.7, Rev. 4.4	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I Note: MDLs reported in Methods 200.7 and 200.9 were determined using a 2X preconcentration step during sample digestion; MDLs determined by direct analysis (i.e., no sample digestion) will be higher.	May 1994	EPA/600/R-94/111	<u>National Environmental Methods</u> <u>Index</u>
200.8, Rev. 5.4	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I	May 1994	EPA/600/R-94/111	National Environmental Methods Index
3111 D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
3111 D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
3111 D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
3111 D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
3111 D-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			<u>Standard Methods</u>
3113 B-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the			Standard Methods

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
		regulations or in Appendix A to Subpart C of Part 141 are approved.			
3113 B-04	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods
3113 B-10	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods
3120 B-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods

Beryllium

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
D3645-97 B	ASTM International	Standard Test Methods for Beryllium in Water – Atomic Absorption, Graphite Furnace	1997		ASTM International
D3645-03 B	ASTM International	Standard Test Methods for Beryllium in Water – Atomic Absorption, Graphite Furnace	2003		ASTM International
D3645-08 B	ASTM International	Standard Test Methods for Beryllium in Water – Atomic Absorption, Graphite Furnace	2008		ASTM International

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
200.5, Rev. 4.2	EPA	Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma – Atomic Emission Spectrometry	October 2003	EPA/600-R-06/115	National Environmental Methods Index
200.7, Rev. 4.4	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I Note: MDLs reported in Methods 200.7 and 200.9 were determined using a 2X preconcentration step during sample digestion; MDLs determined by direct analysis (i.e., no sample digestion) will be higher.	May 1994	EPA/600/R-94/111	<u>National Environmental Methods</u> <u>Index</u>
200.8, Rev. 5.4	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I	May 1994	EPA/600/R-94/111	National Environmental Methods Index
200.9, Rev. 2.2	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I Note: MDLs reported in Methods 200.7 and 200.9 were determined using a 2X preconcentration step during sample digestion; MDLs determined by direct analysis (i.e., no sample digestion) will be higher.	May 1994	EPA/600/R-94/111	<u>National Environmental Methods</u> <u>Index</u>
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
3113 B-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			<u>Standard Methods</u>
3113 B-04	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods
3113 B-10	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods
3120 B-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the			Standard Methods

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
		regulations or in Appendix A to			
		Subpart C of Part 141 are			
		approved.			

Cadmium

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
200.5, Rev. 4.2	EPA	Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma – Atomic Emission Spectrometry	October 2003	EPA/600-R-06/115	<u>National Environmental Methods</u> <u>Index</u>
200.7, Rev. 4.4	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I Note: MDLs reported in Methods 200.7 and 200.9 were determined using a 2X preconcentration step during sample digestion; MDLs determined by direct analysis (i.e., no sample digestion) will be higher. For direct analysis of cadmium by Method 200.7, sample preconcentration using pneumatic nebulization may be required to achieve lower detection limits.	May 1994	EPA/600/R-94/111	<u>National Environmental Methods</u> <u>Index</u>
200.8, Rev. 5.4	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I	May 1994	EPA/600/R-94/111	National Environmental Methods Index
200.9, Rev. 2.2	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I Note: MDLs reported in Methods 200.7 and 200.9 were determined	May 1994	EPA/600/R-94/111	<u>National Environmental Methods</u> <u>Index</u>

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
		using a 2X preconcentration step during sample digestion; MDLs determined by direct analysis (i.e., no sample digestion) will be higher.			
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
3113 B-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods
3113 B-04	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods
3113 B-10	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods

Calcium

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
D511-93 A	ASTM International	Standard Test Methods for Calcium and Magnesium in Water – Complexometric Titration	1993		ASTM International
D511-03 A	ASTM International	Standard Test Methods for Calcium and Magnesium in Water – Complexometric Titration	2003		ASTM International
D511-09 A	ASTM International	Standard Test Methods for Calcium and Magnesium in Water – Complexometric Titration	2009		ASTM International
D511-14 A	ASTM International	Standard Test Methods for Calcium and Magnesium in Water – Complexometric Titration	2014		ASTM International
D511-93 B	ASTM International	Standard Test Methods for Calcium and Magnesium in Water – Atomic Absorption	1993		ASTM International
D511-03 B	ASTM International	Standard Test Methods for Calcium and Magnesium in Water – Atomic Absorption	2003		ASTM International
D511-09 B	ASTM International	Standard Test Methods for Calcium and Magnesium in Water – Atomic Absorption	2009		ASTM International
D511-14 B	ASTM International	Standard Test Methods for Calcium and Magnesium in Water – Atomic Absorption	2014		ASTM International
D6919-03	ASTM International	Standard Test Method for Determination of Dissolved Alkali and Alkaline Earth Cations and Ammonium in Water and Wastewater by Ion Chromatography	2003		ASTM International
D6919-09	ASTM International	Standard Test Method for Determination of Dissolved Alkali and Alkaline Earth Cations and Ammonium in Water and	2009		ASTM International

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
		Wastewater by Ion			
200.5, Rev. 4.2	EPA	Chromatography Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma – Atomic Emission Spectrometry	October 2003	EPA/600-R-06/115	National Environmental Methods Index
200.7, Rev. 4.4	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I Note: MDLs reported in Methods 200.7 and 200.9 were determined using a 2X preconcentration step during sample digestion; MDLs determined by direct analysis (i.e., no sample digestion) will be higher.	May 1994	EPA/600/R-94/111	<u>National Environmental Methods</u> <u>Index</u>
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
3500-Ca D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
3500-Ca D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
3500-Ca B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods
3500-Ca B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
3500-Ca B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
3111 B-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			<u>Standard Methods</u>
3120 B-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			<u>Standard Methods</u>
3500-Ca B- 97	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			<u>Standard Methods</u>

Chromium

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
200.5, Rev. 4.2	EPA	Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma – Atomic Emission Spectrometry	October 2003	EPA/600-R-06/115	<u>National Environmental Methods</u> <u>Index</u>
200.7, Rev. 4.4	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I Note: MDLs reported in Methods 200.7 and 200.9 were determined using a 2X preconcentration step during sample digestion; MDLs determined by direct analysis (i.e., no sample digestion) will be higher.	May 1994	EPA/600/R-94/111	<u>National Environmental Methods</u> <u>Index</u>
200.8, Rev. 5.4	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I	May 1994	EPA/600/R-94/111	National Environmental Methods Index
200.9, Rev. 2.2	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I Note: MDLs reported in Methods 200.7 and 200.9 were determined using a 2X preconcentration step during sample digestion; MDLs determined by direct analysis (i.e., no sample digestion) will be higher.	May 1994	EPA/600/R-94/111	<u>National Environmental Methods</u> <u>Index</u>
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
3113 B	Standard Methods	<i>Standard Methods for the Examination of Water and Wastewater,</i> 22 nd Edition	2012		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
3113 B-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods
3113 B-04	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods
3113 B-10	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the			Standard Methods

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
		regulations or in Appendix A to Subpart C of Part 141 are approved.			
3120 B-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods

Conductivity

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
D1125-95 A	ASTM International	Standard Test Methods for Electrical Conductivity and Resistivity of Water	1995		ASTM International
D1125-14	ASTM International	Standard Test Methods for Electrical Conductivity and Resistivity of Water	2014		ASTM International
2510 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
2510 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
2510 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods
2510 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
2510 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
2510 B-97	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to			Standard Methods

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
		Subpart C of Part 141 are approved.			

Copper

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
D1688-90 A	ASTM International	Standard Test Methods for Copper in Water – Atomic Absorption, Direct	1990		ASTM International
D1688-95 A	ASTM International	Standard Test Methods for Copper in Water – Atomic Absorption, Direct	1995		ASTM International
D1688-02 A	ASTM International	Standard Test Methods for Copper in Water – Atomic Absorption, Direct	2002		ASTM International
D1688-07 A	ASTM International	Standard Test Methods for Copper in Water – Atomic Absorption, Direct	2007		ASTM International
D1688-12 A	ASTM International	Standard Test Methods for Copper in Water – Atomic Absorption, Direct	2012		ASTM International
D1688-90 C	ASTM International	Standard Test Method for Copper in Water – Atomic Absorption, Graphite Furnace	1990		ASTM International
D1688-95 C	ASTM International	Standard Test Method for Copper in Water – Atomic Absorption, Graphite Furnace	1995		ASTM International
D1688-02 C	ASTM International	Standard Test Method for Copper in Water – Atomic Absorption, Graphite Furnace	2002		ASTM International
D1688-07 C	ASTM International	Standard Test Method for Copper in Water – Atomic Absorption, Graphite Furnace	2007		ASTM International

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
D1688-12 C	ASTM International	Standard Test Method for Copper in Water – Atomic Absorption, Graphite Furnace	2012		ASTM International
200.5, Rev. 4.2	EPA	Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma – Atomic Emission Spectrometry	October 2003	EPA/600-R-06/115	<u>National Environmental Methods</u> <u>Index</u>
200.7, Rev. 4.4	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I Note: MDLs reported in Methods 200.7 and 200.9 were determined using a 2X preconcentration step during sample digestion; MDLs determined by direct analysis (i.e., no sample digestion) will be higher.	May 1994	EPA/600/R-94/111	<u>National Environmental Methods</u> <u>Index</u>
200.8, Rev. 5.4	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I	May 1994	EPA/600/R-94/111	<u>National Environmental Methods</u> <u>Index</u>
200.9, Rev. 2.2	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I Note: MDLs reported in Methods 200.7 and 200.9 were determined using a 2X preconcentration step during sample digestion; MDLs determined by direct analysis (i.e., no sample digestion) will be higher.	May 1994	EPA/600/R-94/111	<u>National Environmental Methods</u> <u>Index</u>
Hach 8026, Rev. 1.2	Hach Company	Spectrophotometric Measurement of Copper in Finished Drinking Water	December 2015		Hach Company
Hach 10272, Rev. 1.2	Hach Company	Spectrophotometric Measurement of Copper in Finished Drinking Water	December 2015		Hach Company

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
3111 B-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods
3113 B-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods
3113 B-04	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods
3113 B-10	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			<u>Standard Methods</u>
3120 B-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods

Cyanide

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
ALPKEM	OIA-1677, DW	Available Cyanide by Flow Injection, Ligand Exchange and Amperometry	January 2004	EPA-821-R-04-001	EPA-821-R-04-001

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
		Note: Sulfide levels below those detected using lead acetate paper may produce positive interference. Test samples using a more sensitive sulfide method.			
D2036-98 A	ASTM International	Standard Test Methods for Cyanides in Water – Total Cyanides after Distillation	1998		ASTM International
D2036-06 A	ASTM International	Standard Test Methods for Cyanides in Water – Total Cyanides after Distillation	2006		ASTM International
D2036-98 B	ASTM International	Standard Test Methods for Cyanides in Water – Cyanides Amenable to Chlorination by Difference	1998		ASTM International
D2036-06 B	ASTM International	Standard Test Methods for Cyanides in Water – Cyanides Amenable to Chlorination by Difference	2006		ASTM International
D6888-04	ASTM International	Standard Test Method for Available Cyanide with Ligand Displacement and Flow Injection Analysis (FIA) Utilizing Gas Separation and Amperometric Detection Note: Sulfide levels below those detected using lead acetate paper may produce positive interference. Test samples using a more sensitive sulfide method.	2004		ASTM International
335.4, Rev. 1.0	EPA	In Methods for the Determination of Inorganic Substances in Environmental Samples	August 1993	EPA/600/R-93/100	<u>National Environmental Methods</u> <u>Index</u>
ME355.01	H & E Testing Laboratory	Determination of Cyanide in Drinking Water by GC/MS Headspace	May 26, 2009		National Environmental Methods Index
Kelada-01, Rev. 1.2	Kelada	Kelada Automated Test Methods for Total Cyanide, Acid Dissociable Cyanide, and Thiocyanate	August 2001	EPA 821-B-01-009	<u>Kelada</u>

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
		Note: A 450-W UV lamp may be used in place of the 550-W lamp if it meets the method QC acceptance criteria. Similarly, flow cell configuration and flow conditions may be modified, provided the QC acceptance criteria are met.			
QuikChem 10-204-00- 1-X, Rev. 1.2	Lachat Instruments	Digestion and Distillation of Total Cyanide in Drinking and Wastewaters using MICRO DIST and Determination of Cyanide by Flow Injection Analysis	November 2000		<u>Lachat</u>
4500-CN⁻ C	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
4500-CN⁻ C	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
4500-CN⁻ C	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods
4500-CN ⁻ E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
4500-CN ⁻ E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
4500-CN ⁻ E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods
4500-CN ⁻ E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
4500-CN ⁻ E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
4500-CN ⁻ F	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
4500-CN ⁻ F	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
4500-CN ⁻ F	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods
4500-CN ⁻ F	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
4500-CN ⁻ F	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
4500-CN⁻ G	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
4500-CN⁻ G	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
4500-CN⁻ G	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods
4500-CN⁻ G	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
4500-CN⁻ G	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
4500-CN ⁻ E- 99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			<u>Standard Methods</u>
4500-CN ⁻ F- 99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the			Standard Methods

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
		regulations or in Appendix A to Subpart C of Part 141 are			
4500-CN ⁻ G- 99	Standard Methods Online	approved. Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods
I-3300-85	US Geological Survey	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. and Friedman, L.C.	1989		<u>USGS</u>

Fluoride

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
D1179-93 B	ASTM International	Standard Test Methods for Fluoride in Water – Ion Selective Electrode	1993		ASTM International
D1179-99 B	ASTM International	Standard Test Methods for Fluoride in Water – Ion Selective Electrode	1999		ASTM International
D1179-04 B	ASTM International	Standard Test Methods for Fluoride in Water – Ion Selective Electrode	2004		ASTM International
D1179-10 B	ASTM International	Standard Test Methods for Fluoride in Water – Ion Selective Electrode	2010		ASTM International
D4327-97	ASTM International	Standard Test Method for Anions in Water by Suppressed Ion Chromatography	1997		ASTM International
D4327-03	ASTM International	Standard Test Method for Anions in Water by Suppressed Ion Chromatography	2003		ASTM International

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
D4327-11	ASTM International	Standard Test Method for Anions in Water by Suppressed Ion Chromatography	2011		ASTM International
129-71W	Bran + Luebbe	Fluoride in Water and Wastewater	December 1972		Seal Analytical
380-75WE	Bran + Luebbe	Fluoride in Water and Wastewater	February 1976		Seal Analytical
300.0, Rev. 2.1	EPA	In Methods for the Determination of Inorganic Substances in Environmental Samples	August 1993	EPA/600/R-93/100	National Environmental Methods Index
300.1, Rev. 1.0	EPA	In Methods for the Determination of Organic and Inorganic Compounds in Drinking Water, Vol. 1	August 2000	EPA 815-R-00-014	National Environmental Methods Index
Hach 10225, Rev. 2.0	Hach Company	Hach Company SPADNS 2 (Arsenic- free) Fluoride Method 10225 – Spectrophotometric Measurement of Fluoride in Water and Wastewater	January 2011		<u>Hach Company</u>
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
4500-F ⁻ В	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
4500-F⁻ B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
4500-F⁻ B	Standard Methods	<i>Standard Methods for the Examination of Water and Wastewater,</i> 20 th Edition	1998		Standard Methods
4500-F⁻ B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
4500-F⁻ B	Standard Methods	<i>Standard Methods for the Examination of Water and Wastewater,</i> 22 nd Edition	2012		Standard Methods
4500-F⁻ C	Standard Methods	<i>Standard Methods for the Examination of Water and Wastewater,</i> 18 th Edition	1992		Standard Methods
4500-F⁻ C	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
4500-F⁻ C	Standard Methods	<i>Standard Methods for the Examination of Water and Wastewater,</i> 20 th Edition	1998		Standard Methods
4500-F⁻ C	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
4500-F⁻ C	Standard Methods	<i>Standard Methods for the Examination of Water and Wastewater,</i> 22 nd Edition	2012		Standard Methods
4500-F ⁻ D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
4500-F ⁻ D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
4500-F ⁻ D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods
4500-F ⁻ D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
4500-F ⁻ D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
4500-F ⁻ E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
4500-F ⁻ E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
4500-F ⁻ E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods
4500-F ⁻ E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
4500-F ⁻ E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
4110 B-00	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			<u>Standard Methods</u>
4500-F ⁻ B-97	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			<u>Standard Methods</u>
4500-F ⁻ C-97	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			<u>Standard Methods</u>
4500-F ⁻ D-97	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the			Standard Methods

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
		regulations or in Appendix A to Subpart C of Part 141 are approved.			
4500-F ⁻ E-97	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			<u>Standard Methods</u>
D6508, Rev. 2	Waters Corp.	Test Method for Determination of Dissolved Inorganic Anions in Aqueous Matrices Using Capillary Ion Electrophoresis and Chromate Electrolyte			Waters Corporation

Lead

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
D3559-90 D	ASTM International	Standard Test Methods for Lead in Water – Atomic Absorption, Graphite Furnace	1990		ASTM International
D3559-96 D	ASTM International	Standard Test Methods for Lead in Water – Atomic Absorption, Graphite Furnace	1996		ASTM International
D3559-03 D	ASTM International	Standard Test Methods for Lead in Water – Atomic Absorption, Graphite Furnace	2003		ASTM International
D3559-08 D	ASTM International	Standard Test Methods for Lead in Water – Atomic Absorption, Graphite Furnace	2008		ASTM International
200.5, Rev. 4.2	EPA	Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma – Atomic Emission Spectrometry	October 2003	EPA/600-R-06/115	<u>National Environmental Methods</u> <u>Index</u>

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
200.8, Rev. 5.4	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I	May 1994	EPA/600/R-94/111	National Environmental Methods Index
200.9, Rev. 2.2	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I Note: Preconcentration may be required for direct analysis of lead by Method 200.9	May 1994	EPA/600/R-94/111	<u>National Environmental Methods</u> Index
Method 1001	Palintest Ltd. or Hach Company	Lead in Drinking Water by Differential Pulse Anodic Stripping Voltammetry	August 1999		<u>Hach Company</u>
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition Note: Preconcentration may be required for direct analysis of lead by Method 3113 B unless multiple in-furnace depositions are made	1992		Standard Methods
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition Note: Preconcentration may be required for direct analysis of lead by Method 3113 B unless multiple in-furnace depositions are made	1995		<u>Standard Methods</u>
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition Note: Preconcentration may be required for direct analysis of lead by Method 3113 B unless multiple in-furnace depositions are made	2005		<u>Standard Methods</u>
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition Note: Preconcentration may be required for direct analysis of lead	2012		Standard Methods

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
		by Method 3113 B unless multiple in-furnace depositions are made			
3113 B-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved. Note: Preconcentration may be required for direct analysis of lead by Method 3113 B-99 unless multiple in-furnace depositions are made			<u>Standard Methods</u>
3113 B-04	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved. Note: Preconcentration may be required for direct analysis of lead by Method 3113 B-04 unless multiple in-furnace depositions are made			<u>Standard Methods</u>
3113 B-10	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved. Note: Preconcentration may be required for direct analysis of lead by Method 3113 B-10 unless multiple in-furnace depositions are made			<u>Standard Methods</u>

Magnesium

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
D511-93 A	ASTM International	Standard Test Methods for Calcium and Magnesium in Water: Complexometric Titration	1993		ASTM International
D511-03 A	ASTM International	Standard Test Methods for Calcium and Magnesium in Water: Complexometric Titration	2003		ASTM International
D511-09 A	ASTM International	Standard Test Methods for Calcium and Magnesium in Water: Complexometric Titration	2009		ASTM International
D511-14 A	ASTM International	Standard Test Methods for Calcium and Magnesium in Water: Complexometric Titration	2014		ASTM International
D511-93 B	ASTM International	Standard Test Methods for Calcium and Magnesium in Water: Atomic Absorption Spectrometry	1993		ASTM International
D511-03 B	ASTM International	Standard Test Methods for Calcium and Magnesium in Water: Atomic Absorption Spectrometry	2003		ASTM International
D511-09 B	ASTM International	Standard Test Methods for Calcium and Magnesium in Water: Atomic Absorption Spectrometry	2009		ASTM International
D511-14 B	ASTM International	Standard Test Methods for Calcium and Magnesium in Water: Complexometric Titration	2014		ASTM International
D6919-03	ASTM International	Standard Test Method for Determination of Dissolved Alkali and Alkaline Earth Cations and Ammonium in Water by Ion Chromatography	2003		ASTM International
D6919-09	ASTM International	Standard Test Method for Determination of Dissolved Alkali and Alkaline Earth Cations and Ammonium in Water by Ion Chromatography	2009		ASTM International
200.5, Rev. 4.2	EPA	Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled	October 2003	EPA/600-R-06/115	<u>National Environmental Methods</u> <u>Index</u>

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
		Plasma-Atomic Emission Spectrometry			
200.7, Rev. 4.4	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I	May 1994	EPA/600/R-94/111	National Environmental Methods Index
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
3500-Mg E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
3500-Mg E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
3500-Mg B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods
3500-Mg B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
3500-Mg B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
3111 B-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods
3120 B-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods
3500-Mg B- 97	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods

Mercury

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
D3223-97	ASTM International	Standard Test Methods for Total Mercury in Water	1997		ASTM International
D3223-02	ASTM International	Standard Test Methods for Total Mercury in Water	2002		ASTM International
D3223-12	ASTM International	Standard Test Methods for Total Mercury in Water	2012		ASTM International

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
200.8, Rev. 5.4	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I	May 1994	EPA/600/R-94/111	National Environmental Methods Index
245.1, Rev. 3.0	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I	May 1994	EPA/600/R-94/111	National Environmental Methods Index
245.2	EPA	In Methods for Chemical Analysis of Water and Wastes	March 1983	EPA/600/4-79/020	<u>EPA/600/4-79/020</u>
3112 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
3112 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
3112 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
3112 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
3112 B-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			<u>Standard Methods</u>
3112 B-09	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods

Nickel

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
200.5, Rev. 4.2	EPA	Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma – Atomic Emission Spectrometry	October 2003	EPA/600-R-06/115	National Environmental Methods Index
200.7, Rev. 4.4	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I Note: MDLs reported in Methods 200.7 and 200.9 were determined using a 2X preconcentration step during sample digestion; MDLs determined by direct analysis (i.e., no sample digestion) will be higher.	May 1994	EPA/600/R-94/111	<u>National Environmental Methods</u> <u>Index</u>
200.8, Rev. 5.4	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I	May 1994	EPA/600/R-94/111	National Environmental Methods Index
200.9, Rev. 2.2	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I Note: MDLs reported in Methods 200.7 and 200.9 were determined using a 2X preconcentration step during sample digestion; MDLs determined by direct analysis (i.e., no sample digestion) will be higher.	May 1994	EPA/600/R-94/111	<u>National Environmental Methods</u> <u>Index</u>
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
3111 B-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods
3113 B-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the			Standard Methods

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
		regulations or in Appendix A to			
		Subpart C of Part 141 are			
		approved.			
		Online version. Approval year is			
		designated by the last 2 digits.			
3113 B-04	Standard	Only online versions cited in the			Standard Methods
	Methods Online	regulations or in Appendix A to			
		Subpart C of Part 141 are			
		approved.			
		Online version. Approval year is			
		designated by the last 2 digits.			
3113 B-10	Standard	Only online versions cited in the			Standard Methods
	Methods Online	regulations or in Appendix A to			
		Subpart C of Part 141 are			
		approved.			
		Online version. Approval year is			
	Ctondord	designated by the last 2 digits.			
3120 B-99	Standard	Only online versions cited in the			Standard Methods
	Methods Online	regulations or in Appendix A to			
		Subpart C of Part 141 are			
		approved.			

Nitrate

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
D3867-90 A	ASTM International	Standard Test Methods for Nitrate-Nitrite in Water	1990		ASTM International
D3867-90 B	ASTM International	Standard Test Methods for Nitrate-Nitrite in Water	1990		ASTM International
D4327-97	ASTM International	Standard Test Method for Anions in Water by Suppressed Ion Chromatography	1997		ASTM International
D4327-03	ASTM International	Standard Test Method for Anions in Water by Suppressed Ion Chromatography	2003		ASTM International
D4327-11	ASTM International	Standard Test Method for Anions in Water by Suppressed Ion Chromatography	2011		ASTM International

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
D6508-00	ASTM International	Standard Test Method for Determination of Dissolved Inorganic Anions in Aqueous Matrices using Capillary Ion Electrophoresis and Chromate Electrolyte	2000		ASTM International
601	ATI Orion	Standard Method of Test for Nitrate in Drinking Water	July 1994		Thermo Scientific
300.0, Rev. 2.1	EPA	In Methods for the Determination of Inorganic Substances in Environmental Samples	August 1993	EPA/600/R-93/100	National Environmental Methods Index
300.1, Rev. 1.0	EPA	In Methods for the Determination of Organic and Inorganic Compounds in Drinking Water, Vol. 1	August 2000	EPA 815-R-00-014	National Environmental Methods Index
353.2, Rev. 2.0	EPA	In Methods for the Determination of Inorganic Substances in Environmental Samples	August 1993	EPA/600/R-93/100	National Environmental Methods Index
Hach 10206, Rev. 2.0	Hach Company	Hach Company TNTplus [™] 835/836 Nitrate Method 10206 – Spectrophotometric Measurement of Nitrate in Water and Wastewater	January 2011		<u>Hach Company</u>
NECi Nitrate- Reductase Method, Rev. 2.0	Nitrate Elimination Company, Inc. (NECi)	Method for Nitrate Reductase Nitrate-Nitrogen Analysis of Drinking Water	February 2016		<u>NECi</u>
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
4500-NO₃ ⁻ D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
4500-NO₃ ⁻ D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
4500-NO₃ ⁻ D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods
4500-NO₃⁻ D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
4500-NO₃⁻ D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
4500-NO₃⁻ E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
4500-NO₃⁻ E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
4500-NO₃⁻ E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods
4500-NO₃⁻ E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
4500-NO₃⁻ E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
4500-NO₃⁻ F	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
4500-NO₃⁻ F	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
4500-NO₃⁻ F	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods
4500-NO₃⁻ F	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
4500-NO₃⁻ F	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
4110 B-00	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			<u>Standard Methods</u>
4500-NO₃ ⁻ D-00	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods
4500-NO3 ⁻ E- 00	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods
4500-NO₃⁻ F- 00	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods
Systea Easy (1-Reagent)	Systea Scientific LLC	Systea Easy (1-Reagent) Nitrate Method	February 4, 2009		National Environmental Methods Index

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
B-1011	Waters Corp.	Waters Test Method for Determination of Nitrite/Nitrate in Water using Single Column Ion Chromatography	August 1987		Waters Corporation

Nitrite

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
D3867-90 A	ASTM International	Standard Test Methods for Nitrate-Nitrite in Water	1990		ASTM International
D3867-90 B	ASTM International	Standard Test Methods for Nitrate-Nitrite in Water	1990		ASTM International
D4327-97	ASTM International	Standard Test Method for Anions in Water by Suppressed Ion Chromatography	1997		ASTM International
D4327-03	ASTM International	Standard Test Method for Anions in Water by Suppressed Ion Chromatography	2003		ASTM International
D4327-11	ASTM International	Standard Test Method for Anions in Water by Suppressed Ion Chromatography	2011		ASTM International
D6508-00	ASTM International	Standard Test Method for Determination of Dissolved Inorganic Anions in Aqueous Matrices using Capillary Ion Electrophoresis and Chromate Electrolyte	2000		ASTM International
300.0, Rev. 2.1	EPA	In Methods for the Determination of Inorganic Substances in Environmental Samples	August 1993	EPA/600/R-93/100	National Environmental Methods Index
300.1, Rev. 1.0	EPA	In Methods for the Determination of Organic and Inorganic Compounds in Drinking Water, Vol. 1	August 2000	EPA 815-R-00-014	National Environmental Methods Index
353.2, Rev. 2.0	EPA	In Methods for the Determination of Inorganic Substances in Environmental Samples	August 1993	EPA/600/R-93/100	National Environmental Methods Index

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
NECi Nitrate- Reductase Method, Rev. 2.0	Nitrate Elimination Company, Inc. (NECi)	Method for Nitrate Reductase Nitrate-Nitrogen Analysis of Drinking Water	February 2016		<u>NECi</u>
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
4500-NO2 ⁻ B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
4500-NO2 ⁻ B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
4500-NO2 ⁻ B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods
4500-NO2 ⁻ B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
4500-NO2 ⁻ B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
4500-NO₃ ⁻ E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
4500-NO₃⁻ E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
4500-NO₃⁻ E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods
4500-NO₃⁻ E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
4500-NO₃⁻ E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
4500-NO₃⁻ F	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
4500-NO₃⁻ F	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
4500-NO₃⁻ F	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods
4500-NO₃⁻ F	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
4500-NO₃⁻ F	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
4110 B-00	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			<u>Standard Methods</u>
4500-NO₂ ⁻ B-00	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			<u>Standard Methods</u>

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
4500-NO₃⁻ E- 00	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods
4500-NO₃⁻ F- 00	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods
Systea Easy (1-Reagent)	Systea Scientific LLC	Systea Easy (1-Reagent) Nitrate Method	February 4, 2009		National Environmental Methods Index
B-1011	Waters Corp.	Waters Test Method for Determination of Nitrite/Nitrate in Water using Single Column Ion Chromatography	August 1987		Waters Corporation

Orthophosphate Unfiltered, no digestion or hydrolysis

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
D4327-97	ASTM International	Standard Test Method for Anions in Water by Suppressed Ion Chromatography	1997		ASTM International
D4327-03	ASTM International	Standard Test Method for Anions in Water by Suppressed Ion Chromatography	2003		ASTM International
D4327-11	ASTM International	Standard Test Method for Anions in Water by Suppressed Ion Chromatography	2011		ASTM International
D6508-00	ASTM International	Standard Test Method for Determination of Dissolved Inorganic Anions in Aqueous Matrices using Capillary Ion Electrophoresis and Chromate Electrolyte	2000		ASTM International

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
D515-88 A	ASTM International	Test Methods for Phosphorus in Water	1988		ASTM International
300.0, Rev. 2.1	EPA	In Methods for the Determination of Inorganic Substances in Environmental Samples	August 1993	EPA/600/R-93/100	National Environmental Methods Index
300.1, Rev. 1.0	EPA	In Methods for the Determination of Organic and Inorganic Compounds in Drinking Water, Vol. 1	August 2000	EPA 815-R-00-014	National Environmental Methods Index
365.1, Rev. 2.0	EPA	In Methods for the Determination of Inorganic Substances in Environmental Samples	August 1993	EPA/600/R-93/100	National Environmental Methods Index
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
4110 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
4500-P E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
4500-P E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
4500-P E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods
4500-P E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
4500-P E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
4500-P F	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
4500-P F	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
4500-P F	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods
4500-P F	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
4500-P F	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
4110 B-00	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods
4500-P E-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods
4500-P F-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods
Thermo Fisher Discrete	Thermo Fisher Scientific	Thermo Fisher Scientific Orthophosphate Discrete Analyzer Method for Drinking Water	2016		<u>Thermo Fisher</u>

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
Analyzer, Rev. 5					
I-1601-85	US Geological Survey	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. and Friedman, L.C.	1989		<u>USGS</u>
I-2598-85	US Geological Survey	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. and Friedman, L.C.	1989		<u>USGS</u>
I-2601-90	US Geological Survey	In Methods of Analysis by the U.S. Geological Survey National Water Quality Laboratory; Determination of Inorganic and Organic Constituents in Water and Fluvial Sediments, USGS Series: Open-file Report; edited by M.J. Fishman	1993		<u>USGS</u>

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Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
D1293-84	ASTM International	Standard Test Methods for pH of Water	1984		ASTM International
D1293-95	ASTM International	Standard Test Methods for pH of Water	1995		ASTM International
D1293-99	ASTM International	Standard Test Methods for pH of Water	1999		ASTM International
D1293-12	ASTM International	Standard Test Methods for pH of Water	2012		ASTM International
150.1	EPA	In Methods for Chemical Analysis of Water and Wastes	March 1983	EPA/600/4-79/020	National Environmental Methods Index
150.2	EPA	In Methods for Chemical Analysis of Water and Wastes	March 1983	EPA/600/4-79/020	National Environmental Methods Index

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
4500-H⁺ B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
4500-H⁺ B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
4500-H⁺ B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods
4500-H⁺ B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
4500-H⁺ B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
4500-H⁺ B- 00	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods

Selenium

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
D3859-98 A	ASTM International	Standard Test Methods for Selenium in Water – Atomic Absorption, Hydride Generation	1998		ASTM International
D3859-03 A	ASTM International	Standard Test Methods for Selenium in Water – Atomic Absorption, Hydride Generation	2003		ASTM International
D3950-08 A	ASTM International	Standard Test Methods for Selenium in Water – Atomic Absorption, Hydride Generation	2008		ASTM International

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
D3859-98 B	ASTM International	Standard Test Methods for Selenium in Water – Atomic Absorption, Graphite Furnace	1998		ASTM International
D3859-08 B	ASTM International	Standard Test Methods for Selenium in Water – Atomic Absorption, Graphite Furnace	2003		ASTM International
D3859-08 B	ASTM International	Standard Test Methods for Selenium in Water – Atomic Absorption, Graphite Furnace	2008		ASTM International
200.5, Rev. 4.2	EPA	Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma – Atomic Emission Spectrometry	October 2003	EPA/600-R-06/115	<u>National Environmental Methods</u> <u>Index</u>
200.8, Rev. 5.4	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I	May 1994	EPA/600/R-94/111	<u>National Environmental Methods</u> <u>Index</u>
200.9, Rev. 2.2	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I Note: MDLs reported in Methods 200.7 and 200.9 were determined using a 2X preconcentration step during sample digestion; MDLs determined by direct analysis (i.e., no sample digestion) will be higher.	May 1994	EPA/600/R-94/111	<u>National Environmental Methods</u> <u>Index</u>
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
3113 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
3114 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
3114 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
3114 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
3114 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
3113 B-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods
3113 B-04	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods
3113 B-10	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods
3114 B-97	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods
3114 B-09	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the			Standard Methods

Metho	bd	Organization	Reference Title	Date	EPA Publication Number	Source of Method
			regulations or in Appendix A to			
			Subpart C of Part 141 are			
			approved.			

Silica

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
D859-88	ASTM International	Standard Test Method for Silica in Water	1988		ASTM International
D859-94	ASTM International	Standard Test Method for Silica in Water	1994		ASTM International
D859-00	ASTM International	Standard Test Method for Silica in Water	2000		ASTM International
D859-05	ASTM International	Standard Test Method for Silica in Water	2005		ASTM International
D859-10	ASTM International	Standard Test Method for Silica in Water	2010		ASTM International
200.5, Rev. 4.2	EPA	Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma – Atomic Emission Spectrometry	October 2003	EPA/600-R-06/115	National Environmental Methods Index
200.7, Rev. 4.4	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I Note: MDLs reported in Methods 200.7 and 200.9 were determined using a 2X preconcentration step during sample digestion; MDLs determined by direct analysis (i.e., no sample digestion) will be higher.	May 1994	EPA/600/R-94/111	<u>National Environmental Methods</u> <u>Index</u>
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
3120 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
4500-Si D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
4500-Si D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
4500-Si E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
4500-Si E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
4500-Si F	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
4500-Si F	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
4500-SiO ₂ C	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods
4500-SiO ₂ C	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
4500-SiO ₂ C	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
4500-SiO ₂ D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
4500-SiO ₂ D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
4500-SiO ₂ D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
4500-SiO2 E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods
4500-SiO ₂ E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
4500-SiO2 E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
3120 B-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			<u>Standard Methods</u>
4500-SiO₂ C- 97	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			<u>Standard Methods</u>
4500-SiO₂ D- 97	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			<u>Standard Methods</u>
4500-SiO₂ E- 97	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			<u>Standard Methods</u>

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
I-1700-85	US Geological Survey	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. and Friedman, L.C.	1989		<u>USGS</u>
I-2700-85	US Geological Survey	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. and Friedman, L.C.	1989		<u>USGS</u>

Sodium

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
D6919-03	ASTM International	Standard Test Method for Determination of Dissolved Alkali and Alkaline Earth Cations and Ammonium in Water and Wastewater by Ion Chromatography	2003		ASTM International
D6919-09	ASTM International	Standard Test Method for Determination of Dissolved Alkali and Alkaline Earth Cations and Ammonium in Water and Wastewater by Ion Chromatography	2009		ASTM International
200.5, Rev. 4.2	EPA	Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma – Atomic Emission Spectrometry	October 2003	EPA/600-R-06/115	National Environmental Methods Index

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
200.7, Rev. 4.4	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I Note: MDLs reported in Methods 200.7 and 200.9 were determined using a 2X preconcentration step during sample digestion; MDLs determined by direct analysis (i.e., no sample digestion) will be higher.	May 1994	EPA/600/R-94/111	<u>National Environmental Methods</u> <u>Index</u>
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
3111 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 22 nd Edition	2012		Standard Methods
3111 B-99	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			Standard Methods

Temperature

Metho	d Organization	Reference Title	Date	EPA Publication Number	Source of Method
2550	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18 th Edition	1992		Standard Methods
2550	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19 th Edition	1995		Standard Methods

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
2550	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20 th Edition	1998		Standard Methods
2550	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21 st Edition	2005		Standard Methods
2550	Standard Methods	<i>Standard Methods for the Examination of Water and Wastewater,</i> 22 nd Edition	2012		Standard Methods
2550-00	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			<u>Standard Methods</u>
2550-10	Standard Methods Online	Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.			<u>Standard Methods</u>

Thallium

Method	Organization	Reference Title	Date	EPA Publication Number	Source of Method
200.8, Rev. 5.4	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I	May 1994	EPA/600/R-94/111	<u>National Environmental Methods</u> <u>Index</u>
200.9, Rev. 2.2	EPA	In Methods for the Determination of Metals in Environmental Samples, Supplement I Note: Preconcentration may be required for direct analysis of thallium by Method 200.9	May 1994	EPA/600/R-94/111	<u>National Environmental Methods</u> <u>Index</u>