## ASTM Volume 11.01, April 2018

## Water (I)

D511-14 Standard Test Methods for Calcium and Magnesium In Water

D512-12 Standard Test Methods for Chloride Ion In Water

D513-16 Standard Test Methods for Total and Dissolved Carbon Dioxide in Water

D516-16 Standard Test Method for Sulfate Ion in Water

D596-01(2011) Standard Guide for Reporting Results of Analysis of Water

D807-14 Standard Practice for Assessing the Tendency of Industrial Boiler Waters to Cause Embrittlement (USBM Embrittlement Detector Method)

D857-17 Standard Test Method for Aluminum in Water

D858-17 Standard Test Methods for Manganese in Water

D859-16 Standard Test Method for Silica in Water

D888-12e1 Standard Test Methods for Dissolved Oxygen in Water

D1066-11 Standard Practice for Sampling Steam

D1067-16 Standard Test Methods for Acidity or Alkalinity of Water

D1068-15 Standard Test Methods for Iron in Water

D1125-14 Standard Test Methods for Electrical Conductivity and Resistivity of Water

D1126-17 Standard Test Method for Hardness in Water

D1129-13 Standard Terminology Relating to Water

D1179-16 Standard Test Methods for Fluoride Ion in Water

D1193-06(2011) Standard Specification for Reagent Water

D1246-16 Standard Test Method for Bromide Ion in Water

D1253-14 Standard Test Method for Residual Chlorine in Water

D1292-15 Standard Test Method for Odor in Water

D1293-18 Standard Test Methods for pH of Water D1385-07(2013)e1 Standard Test Method for Hydrazine in Water D1426-15 Standard Test Methods for Ammonia Nitrogen In Water D1429-13 Standard Test Methods for Specific Gravity of Water and Brine D1498-14 Standard Test Method for Oxidation-Reduction Potential of Water D1687-17 Standard Test Methods for Chromium in Water D1688-17 Standard Test Methods for Copper in Water D1691-17 Standard Test Methods for Zinc in Water D1886-14 Standard Test Methods for Nickel in Water D1941-91(2013) Standard Test Method for Open Channel Flow Measurement of Water with the Parshall Flume D1971-16 Standard Practices for Digestion of Water Samples for Determination of Metals by Flame Atomic Absorption, Graphite Furnace Atomic Absorption, Plasma Emission Spectroscopy, or Plasma Mass Spectrometry D1976-12 Standard Test Method for Elements in Water by Inductively-Coupled Argon Plasma Atomic Emission Spectroscopy D2688-15e1 Standard Test Method for Corrosivity of Water in the Absence of Heat Transfer (Weight Loss Method) D2777-13 Standard Practice for Determination of Precision and Bias of Applicable Test Methods of Committee D19 on Water D2791-13 Standard Test Method for On-line Determination of Sodium in Water D2972-15 Standard Test Methods for Arsenic in Water D3082-15 Standard Test Method for Boron in Water D3223-17 Standard Test Method for Total Mercury in Water D3370-10 Standard Practices for Sampling Water from Closed Conduits D3372-17 Standard Test Method for Molybdenum in Water D3373-17 Standard Test Method for Vanadium in Water D3557-17 Standard Test Methods for Cadmium in Water D3558-15 Standard Test Methods for Cobalt in Water

D3559-15 Standard Test Methods for Lead in Water

D3645-15 Standard Test Methods for Beryllium in Water

D3697-17 Standard Test Method for Antimony in Water

D3856-11(2015) Standard Guide for Management Systems in Laboratories Engaged in Analysis of Water

D3858-95(2014) Standard Test Method for Open-Channel Flow Measurement of Water by Velocity-Area Method

D3859-15 Standard Test Methods for Selenium in Water

D3862-13 Standard Test Method for Retention Characteristics of 0.2-µm Membrane Filters Used in Routine Filtration Procedures for the Evaluation of Microbiological Water Quality

D3864-12 Standard Guide for On-Line Monitoring Systems for Water Analysis

D3866-12 Standard Test Methods for Silver in Water

D3867-16 Standard Test Methods for Nitrite-Nitrate in Water

D3919-15 Standard Practice for Measuring Trace Elements in Water by Graphite Furnace Atomic Absorption Spectrophotometry

D3920-12 Standard Test Method for Strontium in Water

D4127-12 Standard Terminology Used with Ion-Selective Electrodes

D4188-17 Standard Practice for Performing Pressure In-Line Coagulation-Flocculation-Filtration Test in Water

D4189-07(2014) Standard Test Method for Silt Density Index (SDI) of Water

D4190-15 Standard Test Method for Elements in Water by Direct-Current Plasma Atomic Emission Spectroscopy

D4191-15 Standard Test Method for Sodium in Water by Atomic Absorption Spectrophotometry

D4192-15 Standard Test Method for Potassium in Water by Atomic Absorption Spectrophotometry

D4309-12 Standard Practice for Sample Digestion Using Closed Vessel Microwave Heating Technique for the Determination of Total Metals in Water

D4327-17 Standard Test Method for Anions in Water by Suppressed Ion Chromatography

D4375-96(2011) Standard Practice for Basic Statistics in Committee D-19 on Water

D4382-12 Standard Test Method for Barium in Water, Atomic Absorption Spectrophotometry, Graphite Furnace

D4409-95(2014) Standard Test Method for Velocity Measurements of Water in Open Channels with Rotating Element Current Meters

D4410-16 Terminology for Fluvial Sediment

D4453-17 Standard Practice for Handling of High Purity Water Samples

D4519-16 Standard Test Method for On-Line Determination of Anions and Carbon Dioxide in High Purity Water by Cation Exchange and Degassed Cation Conductivity

D4638-16 Standard Guide for Preparation of Biological Samples for Inorganic Chemical Analysis

D4658-15 Standard Test Method for Sulfide Ion in Water

D4691-17 Standard Practice for Measuring Elements in Water by Flame Atomic Absorption Spectrophotometry

D4778-15 Standard Test Method for Determination of Corrosion and Fouling Tendency of Cooling Water Under Heat Transfer Conditions

D4840-99(2010) Standard Guide for Sampling Chain-of-Custody Procedures

D4841-88(2013)e1 Standard Practice for Estimation of Holding Time for Water Samples Containing Organic and Inorganic Constituents

D5089-95(2014) Standard Test Method for Velocity Measurements of Water in Open Channels with Electromagnetic Current Meters

D5127-13 Standard Guide for Ultra-Pure Water Used in the Electronics and Semiconductor Industries

D5128-14 Standard Test Method for On-Line pH Measurement of Water of Low Conductivity

D5129-95(2014)e1 Standard Test Method for Open Channel Flow Measurement of Water Indirectly by Using Width Contractions

D5130-95(2014) Standard Test Method for Open-Channel Flow Measurement of Water Indirectly by Slope-Area Method

D5172-91(2015) Standard Guide for Documenting the Standard Operating Procedures Used for the Analysis of Water

D5173-15 Standard Guide for On-Line Monitoring of Total Organic Carbon in Water by Oxidation and Detection of Resulting Carbon Dioxide

D5196-06(2013) Standard Guide for Bio-Applications Grade Water

D5242-92(2013) Standard Test Method for Open-Channel Flow Measurement of Water with Thin-Plate Weirs

D5243-92(2013) Standard Test Method for Open-Channel Flow Measurement of Water Indirectly at Culverts

D5257-17 Standard Test Method for Dissolved Hexavalent Chromium in Water by Ion Chromatography

D5387-93(2013) Standard Guide for Elements of a Complete Data Set for Non-Cohesive Sediments

D5388-93(2013) Standard Test Method for Indirect Measurements of Discharge by Step-Backwater Method

D5389-93(2013) Standard Test Method for Open-Channel Flow Measurement by Acoustic Velocity Meter Systems

D5390-93(2013) Standard Test Method for Open-Channel Flow Measurement of Water with Palmer-Bowlus Flumes

D5391-14 Standard Test Method for Electrical Conductivity and Resistivity of a Flowing High Purity Water Sample

D5463-13 Standard Guide for Use of Test Kits to Measure Inorganic Constituents in Water

D5464-16 Standard Test Method for pH Measurement of Water of Low Conductivity

D5540-13 Standard Practice for Flow Control and Temperature Control for On-Line Water Sampling and Analysis

D5541-94(2014) Standard Practice for Developing a Stage-Discharge Relation for Open Channel Flow

D5542-16 Standard Test Methods for Trace Anions in High Purity Water by Ion Chromatography

D5543-15 Standard Test Method for Low-Level Dissolved Oxygen in Water

D5544-16 Standard Test Method for On-Line Measurement of Residue After Evaporation of High-Purity Water

D5612-94(2013) Standard Guide for Quality Planning and Field Implementation of a Water Quality Measurement Program

D5810-96(2015) Standard Guide for Spiking into Aqueous Samples

D5851-95(2015) Standard Guide for Planning and Implementing a Water Monitoring Program

D5905-98(2013) Standard Practice for the Preparation of Substitute Wastewater

D5906-02(2013) Standard Guide for Measuring Horizontal Positioning During Measurements of Surface Water Depths

D5907-13 Standard Test Methods for Filterable Matter (Total Dissolved Solids) and Nonfilterable Matter (Total Suspended Solids) in Water

D5996-16 Standard Test Method for Measuring Anionic Contaminants in High-Purity Water by On-Line Ion Chromatography

D5997-15 Standard Test Method for On-Line Monitoring of Total Carbon, Inorganic Carbon in Water by Ultraviolet, Persulfate Oxidation, and Membrane Conductivity Detection

D6071-14 Standard Test Method for Low Level Sodium in High Purity Water by Graphite Furnace Atomic Absorption Spectroscopy

D6091-07(2014) Standard Practice for 99 %/95 % Interlaboratory Detection Estimate (IDE) for Analytical Methods with Negligible Calibration Error

D6145-97(2012) Standard Guide for Monitoring Sediment in Watersheds

D6146-97(2012) Standard Guide for Monitoring Aqueous Nutrients in Watersheds

D6301-13 Standard Practice for Collection of On-Line Composite Samples of Suspended Solids and Ionic Solids in Process Water

D6317-15 Standard Test Method for Low Level Determination of Total Carbon, Inorganic Carbon and Organic Carbon in Water by Ultraviolet, Persulfate Oxidation, and Membrane Conductivity Detection

D6318-03(2014) Standard Practice for Calibrating a Fathometer Using a Bar Check Method

D6326-08(2014) Standard Practice for The Selection of Maximum Transit-Rate Ratios and Depths for the U.S. Series of Isokinetic Suspended-Sediment Samplers

D6362-98(2013) Standard Practice for Certificates of Reference Materials for Water Analysis

D6501-15 Standard Test Method for Phosphonate in Brines

D6502-10(2015) Standard Test Method for Measurement of On-line Integrated Samples of Low Level Suspended Solids and Ionic Solids in Process Water by X-Ray Fluorescence (XRF)

D6504-11(2016)e1 Standard Practice for On-Line Determination of Cation Conductivity in High Purity Water

D6512-07(2014) Standard Practice for Interlaboratory Quantitation Estimate

D6568-00(2011) Standard Guide for Planning, Carrying Out, and Reporting Traceable Chemical Analyses of Water Samples

D6569-14 Standard Test Method for On-Line Measurement of pH

D6581-12 Standard Test Methods for Bromate, Bromide, Chlorate, and Chlorite in Drinking Water by Suppressed Ion Chromatography

D6689-01(2011) Standard Guide for Optimizing, Controlling and Reporting Test Method Uncertainties from Multiple Workstations in the Same Laboratory Organization

D6698-14 Standard Test Method for On-Line Measurement of Turbidity Below 5 NTU in Water

D6764-02(2013) Standard Guide for Collection of Water Temperature, Dissolved-Oxygen Concentrations, Specific Electrical Conductance, and pH Data from Open Channels

D6808-02(2012) Standard Practice for Competency Requirements of Reference Material Producers for Water Analysis

D6855-17 Standard Test Method for Determination of Turbidity Below 5 NTU in Static Mode

D7126-15 Standard Test Method for On-Line Colorimetric Measurement of Silica

D7315-17 Standard Test Method for Determination of Turbidity Above 1 Turbidity Unit (TU) in Static Mode

D7366-08(2013) Standard Practice for Estimation of Measurement Uncertainty for Data from Regression-based Methods

D7510-10(2016)e1 Standard Practice for Performing Detection and Quantitation Estimation and Data Assessment Utilizing DQCALC Software, based on ASTM Practices D6091 and D6512 of Committee D19 on Water

D7512-09(2015) Standard Guide for Monitoring of Suspended-Sediment Concentration in Open Channel Flow Using Optical Instrumentation

D7677-16 Standard Test Method for the Continuous Measurement of Dissolved Ozone in Low Conductivity Water

D7725-17 Standard Test Method for the Continuous Measurement of Turbidity Above 1 Turbidity Unit (TU)

D7726-11(2016)e1 Standard Guide for The Use of Various Turbidimeter Technologies for Measurement of Turbidity in Water

D7729-12 Standard Practice for Determining and Expressing Precision of Measurement Results, in the Analysis of Water, as Relative Standard Deviation, Utilizing DQCALC Software

D7782-13 Standard Practice for Determination of the 99 %/95 % Critical Level (WCL) and a Reliable Detection Estimate (WDE) Based on Within-laboratory Data

D7783-13 Standard Practice for Determination of the 99 %/95 % Critical Level (WCL) and a Reliable Detection Estimate (WDE) Based on Within-laboratory Data

D7937-15 Standard Test Method for In-situ Determination of Turbidity Above 1 Turbidity Unit (TU) in Surface Water

D7980-15 Standard Guide for Ion-Chromatographic Analysis of Anions in Grab Samples of Ultrapure Water (UPW) in the Semiconductor Industry

F660-83(2013) Standard Practice for Comparing Particle Size in the Use of Alternative Types of Particle Counters