



## Analytical Methods Approved for Drinking Water Compliance Monitoring under the Disinfection Byproduct Rules

Analysis for the following disinfectants, contaminants and other parameters 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 141.131 and in Appendix A to Subpart C of Part 141. The monitoring requirements are specified in 40 CFR 141.132, 141.135, 141.600-141.603, and 141.620-141.268.

*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.*

### Disinfectants:

If approved by the State, residual disinfectant concentrations for chlorine, chloramines, and chlorine dioxide may be measured using DPD colorimetric test kits.

### Chlorine Dioxide

| Method                          | Organization     | Reference Title                                                                                                                                                       | Date          | EPA Publication Number | Source of Method                         |
|---------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------|------------------------------------------|
| <b>327, Rev. 1.1</b>            | EPA              | <i>Determination of Chlorine Dioxide and Chlorite Ion in Drinking Water using Lissamine Green B and Horseradish Peroxidase with Detection by Visible Spectrometry</i> | May 2005      | EPA-815-R-05-008       | <a href="#">EPA-815-R-05-008</a>         |
| <b>ChlordioX Plus</b>           | Palintest        | <i>Palintest ChlordioX Plus Method – Chlorine Dioxide and Chlorite in Drinking Water by Amperometry using Disposable Sensors</i>                                      | November 2013 |                        | <a href="#">ChlordioX Plus</a>           |
| <b>ChlordioX Plus, Rev. 1.1</b> | Palintest        | <i>Chlorine Dioxide and Chlorite in Drinking Water by Amperometry using Disposable Sensors</i>                                                                        | February 2020 |                        | <a href="#">ChlordioX Plus, Rev. 1.1</a> |
| <b>4500-ClO<sub>2</sub> D</b>   | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 19<sup>th</sup> Edition</i>                                                                          | 1995          |                        | <a href="#">Standard Methods</a>         |
| <b>4500-ClO<sub>2</sub> D</b>   | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 20<sup>th</sup> Edition</i>                                                                          | 1998          |                        | <a href="#">Standard Methods</a>         |
| <b>4500-ClO<sub>2</sub> E</b>   | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 19<sup>th</sup> Edition</i>                                                                          | 1995          |                        | <a href="#">Standard Methods</a>         |

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|----------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--|----------------------------------|
| 4500-ClO <sub>2</sub> E    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 20<sup>th</sup> Edition</i>                                                                            | 1998 |  | <a href="#">Standard Methods</a> |
| 4500-ClO <sub>2</sub> E    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 21<sup>st</sup> Edition</i>                                                                            | 2005 |  | <a href="#">Standard Methods</a> |
| 4500-ClO <sub>2</sub> E    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 22<sup>nd</sup> Edition</i>                                                                            | 2012 |  | <a href="#">Standard Methods</a> |
| 4500-ClO <sub>2</sub> E    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 23<sup>rd</sup> Edition</i>                                                                            | 2017 |  | <a href="#">Standard Methods</a> |
| 4500-ClO <sub>2</sub> E    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 24<sup>th</sup> Edition</i>                                                                            | 2023 |  | <a href="#">Standard Methods</a> |
| 4500-ClO <sub>2</sub> 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. | 2000 |  | <a href="#">Standard Methods</a> |

### Combined Chlorine

| Method               | Organization       | Reference Title                                                                                                                                            | Date       | EPA Publication Number | Source of Method                     |
|----------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------|--------------------------------------|
| D1253-86             | ASTM International | <i>Standard Test Method for Residual Chlorine in Water</i>                                                                                                 | 1986       |                        | <a href="#">ASTM International</a>   |
| D1253-03             | ASTM International | <i>Standard Test Method for Residual Chlorine in Water</i>                                                                                                 | 2003       |                        | <a href="#">ASTM International</a>   |
| D1253-08             | ASTM International | <i>Standard Test Method for Residual Chlorine in Water</i>                                                                                                 | 2008       |                        | <a href="#">ASTM International</a>   |
| D1253-14             | ASTM International | <i>Standard Test Method for Residual Chlorine in Water</i>                                                                                                 | 2014       |                        | <a href="#">ASTM International</a>   |
| Hach 10260, Rev. 1.0 | Hach Company       | <i>Determination of Chlorinated Oxidants (Free and Total) in Water using Disposable Planar Reagent-Filled Cuvettes and Mesofluidic Channel Colorimetry</i> | April 2013 |                        | <a href="#">Hach 10260, Rev. 1.0</a> |

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|------------------|------------------|----------------------------------------------------------------------------------------------|------|--|----------------------------------|
| <b>4500-CI D</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 19<sup>th</sup> Edition</i> | 1995 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI D</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 20<sup>th</sup> Edition</i> | 1998 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI D</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 21<sup>st</sup> Edition</i> | 2005 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI D</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 22<sup>nd</sup> Edition</i> | 2012 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI D</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 23<sup>rd</sup> Edition</i> | 2017 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI D</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 24<sup>th</sup> Edition</i> | 2023 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI F</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 19<sup>th</sup> Edition</i> | 1995 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI F</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 20<sup>th</sup> Edition</i> | 1998 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI F</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 21<sup>st</sup> Edition</i> | 2005 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI F</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 22<sup>nd</sup> Edition</i> | 2012 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI F</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 23<sup>rd</sup> Edition</i> | 2017 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI F</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 24<sup>th</sup> Edition</i> | 2023 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI G</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 19<sup>th</sup> Edition</i> | 1995 |  | <a href="#">Standard Methods</a> |

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|--------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--|----------------------------------|
| 4500-CI G    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 20<sup>th</sup> Edition</i>                                                                            | 1998 |  | <a href="#">Standard Methods</a> |
| 4500-CI G    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 21<sup>st</sup> Edition</i>                                                                            | 2005 |  | <a href="#">Standard Methods</a> |
| 4500-CI G    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 22<sup>nd</sup> Edition</i>                                                                            | 2012 |  | <a href="#">Standard Methods</a> |
| 4500-CI G    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 23<sup>rd</sup> Edition</i>                                                                            | 2017 |  | <a href="#">Standard Methods</a> |
| 4500-CI G    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 24<sup>th</sup> Edition</i>                                                                            | 2023 |  | <a href="#">Standard Methods</a> |
| 4500-CI 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. | 2000 |  | <a href="#">Standard Methods</a> |
| 4500-CI 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. | 2000 |  | <a href="#">Standard Methods</a> |
| 4500-CI G-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. | 2000 |  | <a href="#">Standard Methods</a> |

Free Chlorine

| Method  | Organization                  | Reference Title                                                                   | Date          | EPA Publication Number | Source of Method               |
|---------|-------------------------------|-----------------------------------------------------------------------------------|---------------|------------------------|--------------------------------|
| D99-003 | Industrial Test Systems, Inc. | <i>Free Chlorine Species (HOCl<sup>-</sup> and OCl<sup>-</sup>) by Test Strip</i> | November 2003 |                        | <a href="#">Method D99-003</a> |

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|------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------|---------------------------------------|
| <b>D1253-86</b>              | ASTM International | <i>Standard Test Method for Residual Chlorine in Water</i>                                                                                                  | 1986           |                  | <a href="#">ASTM International</a>    |
| <b>D1253-03</b>              | ASTM International | <i>Standard Test Method for Residual Chlorine in Water</i>                                                                                                  | 2003           |                  | <a href="#">ASTM International</a>    |
| <b>D1253-08</b>              | ASTM International | <i>Standard Test Method for Residual Chlorine in Water</i>                                                                                                  | 2008           |                  | <a href="#">ASTM International</a>    |
| <b>D1253-14</b>              | ASTM International | <i>Standard Test Method for Residual Chlorine in Water</i>                                                                                                  | 2014           |                  | <a href="#">ASTM International</a>    |
| <b>334.0</b>                 | EPA                | <i>Determination of Residual Chlorine in Drinking Water using an On-line Chlorine Analyzer</i>                                                              | September 2009 | EPA 815-B-09-013 | <a href="#">EPA 815-B-09-013</a>      |
| <b>Hach 10260, Rev. 1.0</b>  | Hach Company       | <i>Determination of Chlorinated Oxidants (Free and Total ) in Water using Disposable Planar Reagent-Filled Cuvettes and Mesofluidic Channel Colorimetry</i> | April 2013     |                  | <a href="#">Hach 10260, Rev. 1.0</a>  |
| <b>Hach 10241, Rev. 1.2</b>  | Hach Company       | <i>Spectrophotometric Measurement of Free Chlorine (Cl<sub>2</sub>) in Finished Drinking Water</i>                                                          | November 2015  |                  | <a href="#">Hach 10241, Rev. 1.2</a>  |
| <b>ChloroSense</b>           | Palintest          | <i>Measurement of Free and Total Chlorine in Drinking Water by Palintest ChloroSense</i>                                                                    | August 2009    |                  | <a href="#">ChloroSense</a>           |
| <b>ChloroSense, Rev. 1.1</b> | Palintest          | <i>Free and Total Chlorine in Drinking Water by Amperometry using Disposable Sensors</i>                                                                    | February 2020  |                  | <a href="#">ChloroSense, Rev. 1.1</a> |
| <b>4500-CI D</b>             | Standard Methods   | <i>Standard Methods for the Examination of Water and Wastewater, 19<sup>th</sup> Edition</i>                                                                | 1995           |                  | <a href="#">Standard Methods</a>      |
| <b>4500-CI D</b>             | Standard Methods   | <i>Standard Methods for the Examination of Water and Wastewater, 20<sup>th</sup> Edition</i>                                                                | 1998           |                  | <a href="#">Standard Methods</a>      |
| <b>4500-CI D</b>             | Standard Methods   | <i>Standard Methods for the Examination of Water and Wastewater, 21<sup>st</sup> Edition</i>                                                                | 2005           |                  | <a href="#">Standard Methods</a>      |
| <b>4500-CI D</b>             | Standard Methods   | <i>Standard Methods for the Examination of Water and Wastewater, 22<sup>nd</sup> Edition</i>                                                                | 2012           |                  | <a href="#">Standard Methods</a>      |
| <b>4500-CI D</b>             | Standard Methods   | <i>Standard Methods for the Examination of Water and Wastewater, 23<sup>rd</sup> Edition</i>                                                                | 2017           |                  | <a href="#">Standard Methods</a>      |

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|------------------|------------------|----------------------------------------------------------------------------------------------|------|--|----------------------------------|
| <b>4500-CI D</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 24<sup>th</sup> Edition</i> | 2023 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI F</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 19<sup>th</sup> Edition</i> | 1995 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI F</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 20<sup>th</sup> Edition</i> | 1998 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI F</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 21<sup>st</sup> Edition</i> | 2005 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI F</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 22<sup>nd</sup> Edition</i> | 2012 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI F</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 23<sup>rd</sup> Edition</i> | 2017 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI F</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 24<sup>th</sup> Edition</i> | 2023 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI G</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 19<sup>th</sup> Edition</i> | 1995 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI G</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 20<sup>th</sup> Edition</i> | 1998 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI G</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 21<sup>st</sup> Edition</i> | 2005 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI G</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 22<sup>nd</sup> Edition</i> | 2012 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI G</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 23<sup>rd</sup> Edition</i> | 2017 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI G</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 24<sup>th</sup> Edition</i> | 2023 |  | <a href="#">Standard Methods</a> |

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|---------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--|----------------------------------|
| <b>4500-CI H</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 19<sup>th</sup> Edition</i>                                                                            | 1995 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI H</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 20<sup>th</sup> Edition</i>                                                                            | 1998 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI H</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 21<sup>st</sup> Edition</i>                                                                            | 2005 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI H</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 22<sup>nd</sup> Edition</i>                                                                            | 2012 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI H</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 23<sup>rd</sup> Edition</i>                                                                            | 2017 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI H</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 24<sup>th</sup> Edition</i>                                                                            | 2023 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI D-00</b> | 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. | 2000 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI F-00</b> | 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. | 2000 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI G-00</b> | 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. | 2000 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI H-00</b> | 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                                     | 2000 |  | <a href="#">Standard Methods</a> |

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|  |  | Subpart C of Part 141 are approved. |  |  |  |
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## Total Chlorine

| Method                       | Organization       | Reference Title                                                                                                                                             | Date           | EPA Publication Number | Source of Method                      |
|------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------|---------------------------------------|
| <b>D1253-86</b>              | ASTM International | <i>Standard Test Method for Residual Chlorine in Water</i>                                                                                                  | 1986           |                        | <a href="#">ASTM International</a>    |
| <b>D1253-03</b>              | ASTM International | <i>Standard Test Method for Residual Chlorine in Water</i>                                                                                                  | 2003           |                        | <a href="#">ASTM International</a>    |
| <b>D1253-08</b>              | ASTM International | <i>Standard Test Method for Residual Chlorine in Water</i>                                                                                                  | 2008           |                        | <a href="#">ASTM International</a>    |
| <b>D1253-14</b>              | ASTM International | <i>Standard Test Method for Residual Chlorine in Water</i>                                                                                                  | 2014           |                        | <a href="#">ASTM International</a>    |
| <b>334.0</b>                 | EPA                | <i>Determination of Residual Chlorine in Drinking Water using an On-line Chlorine Analyzer</i>                                                              | September 2009 | EPA 815-B-09-013       | <a href="#">EPA 815-B-09-013</a>      |
| <b>Hach 10260, Rev. 1.0</b>  | Hach Company       | <i>Determination of Chlorinated Oxidants (Free and Total ) in Water using Disposable Planar Reagent-Filled Cuvettes and Mesofluidic Channel Colorimetry</i> | April 2013     |                        | <a href="#">Hach 10260, Rev. 1.0</a>  |
| <b>ChloroSense</b>           | Palintest          | <i>Measurement of Free and Total Chlorine in Drinking Water by Palintest ChloroSense</i>                                                                    | August 2009    |                        | <a href="#">ChloroSense</a>           |
| <b>ChloroSense, Rev. 1.1</b> | Palintest          | <i>Free and Total Chlorine in Drinking Water by Amperometry using Disposable Sensors</i>                                                                    | February 2020  |                        | <a href="#">ChloroSense, Rev. 1.1</a> |
| <b>4500-Cl D</b>             | Standard Methods   | <i>Standard Methods for the Examination of Water and Wastewater, 19<sup>th</sup> Edition</i>                                                                | 1995           |                        | <a href="#">Standard Methods</a>      |
| <b>4500-Cl D</b>             | Standard Methods   | <i>Standard Methods for the Examination of Water and Wastewater, 20<sup>th</sup> Edition</i>                                                                | 1998           |                        | <a href="#">Standard Methods</a>      |
| <b>4500-Cl D</b>             | Standard Methods   | <i>Standard Methods for the Examination of Water and Wastewater, 21<sup>st</sup> Edition</i>                                                                | 2005           |                        | <a href="#">Standard Methods</a>      |
| <b>4500-Cl D</b>             | Standard Methods   | <i>Standard Methods for the Examination of Water and Wastewater, 22<sup>nd</sup> Edition</i>                                                                | 2012           |                        | <a href="#">Standard Methods</a>      |



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|------------------|------------------|----------------------------------------------------------------------------------------------|------|--|----------------------------------|
| <b>4500-CI D</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 23<sup>rd</sup> Edition</i> | 2017 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI D</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 24<sup>th</sup> Edition</i> | 2023 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI E</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 19<sup>th</sup> Edition</i> | 1995 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI E</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 20<sup>th</sup> Edition</i> | 1998 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI E</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 21<sup>st</sup> Edition</i> | 2005 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI E</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 22<sup>nd</sup> Edition</i> | 2012 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI E</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 23<sup>rd</sup> Edition</i> | 2017 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI E</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 24<sup>th</sup> Edition</i> | 2023 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI F</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 19<sup>th</sup> Edition</i> | 1995 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI F</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 20<sup>th</sup> Edition</i> | 1998 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI F</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 21<sup>st</sup> Edition</i> | 2005 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI F</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 22<sup>nd</sup> Edition</i> | 2012 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI F</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 23<sup>rd</sup> Edition</i> | 2017 |  | <a href="#">Standard Methods</a> |

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|---------------------|-------------------------|----------------------------------------------------------------------------------------------|------|--|----------------------------------|
| <b>4500-CI F</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 24<sup>th</sup> Edition</i> | 2023 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI G</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 19<sup>th</sup> Edition</i> | 1995 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI G</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 20<sup>th</sup> Edition</i> | 1998 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI G</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 21<sup>st</sup> Edition</i> | 2005 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI G</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 22<sup>nd</sup> Edition</i> | 2012 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI G</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 23<sup>rd</sup> Edition</i> | 2017 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI G</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 24<sup>th</sup> Edition</i> | 2023 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI I</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 19<sup>th</sup> Edition</i> | 1995 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI I</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 20<sup>th</sup> Edition</i> | 1998 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI I</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 21<sup>st</sup> Edition</i> | 2005 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI I</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 22<sup>nd</sup> Edition</i> | 2012 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI I</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 23<sup>rd</sup> Edition</i> | 2017 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI I</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 24<sup>th</sup> Edition</i> | 2023 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI D-00</b> | Standard Methods Online | Online version. Approval year is designated by the last 2 digits.                            | 2000 |  | <a href="#">Standard Methods</a> |

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|---------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--|----------------------------------|
|                     |                         | Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.                                                                   |      |  |                                  |
| <b>4500-CI E-00</b> | 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. | 2000 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI F-00</b> | 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. | 2000 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI G-00</b> | 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. | 2000 |  | <a href="#">Standard Methods</a> |
| <b>4500-CI I-00</b> | 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. | 2000 |  | <a href="#">Standard Methods</a> |

## Disinfection Byproducts:

### Bromate

| Method            | Organization       | Reference Title                                                                                                                        | Date | EPA Publication Number | Source of Method                   |
|-------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------|------|------------------------|------------------------------------|
| <b>D6581-00</b>   | ASTM International | <i>Standard Test Methods for Bromate, Bromide, Chlorate and Chlorite in Drinking Water by Chemically Suppressed Ion Chromatography</i> | 2000 |                        | <a href="#">ASTM International</a> |
| <b>D6581-08 A</b> | ASTM International | <i>Standard Test Methods for Bromate, Bromide, Chlorate and</i>                                                                        | 2008 |                        | <a href="#">ASTM International</a> |

|                        |                    |                                                                                                                                                                                                                   |                |                  |                                                      |
|------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------|------------------------------------------------------|
|                        |                    | <i>Chlorite in Drinking Water by (Chemically) Suppressed Ion Chromatography</i>                                                                                                                                   |                |                  |                                                      |
| <b>D6581-08 B</b>      | ASTM International | <i>Standard Test Methods for Bromate, Bromide, Chlorate and Chlorite in Drinking Water by (Electrolytically) Suppressed Ion Chromatography</i>                                                                    | 2008           |                  | <a href="#">ASTM International</a>                   |
| <b>300.1, Rev. 1.0</b> | EPA                | <i>In Methods for the Determination of Organic and Inorganic Compounds in Drinking Water, Volume I</i>                                                                                                            | August 2000    | EPA 815-R-00-014 | <a href="#">National Environmental Methods Index</a> |
| <b>321.8</b>           | EPA                | <i>In Methods for the Determination of Organic and Inorganic Compounds in Drinking Water, Volume I</i>                                                                                                            | August 2000    | EPA 815-R-00-014 | <a href="#">National Environmental Methods Index</a> |
| <b>317, Rev. 2.0</b>   | EPA                | <i>Determination of Inorganic Oxyhalide Disinfection Byproducts in Drinking Water using Ion Chromatography with the Addition of a Postcolumn Reagent for Trace Bromate Analysis</i>                               | July 2001      | EPA 815-B-01-001 | <a href="#">EPA 815-B-01-001</a>                     |
| <b>326.0, Rev. 1.0</b> | EPA                | <i>Determination of Inorganic Oxyhalide Disinfection Byproducts in Drinking Water using Ion Chromatography Incorporating the Addition of a Suppressor Acidified Postcolumn Reagent for Trace Bromate Analysis</i> | June 2002      | EPA 815-R-03-007 | <a href="#">EPA 815-R-03-007</a>                     |
| <b>302.0</b>           | EPA                | <i>Determination of Bromate in Drinking Water using Two-Dimensional Ion Chromatography with Suppressed Conductivity Detection</i>                                                                                 | September 2009 | EPA 815-B-09-014 | <a href="#">EPA 815-B-09-014</a>                     |
| <b>557</b>             | EPA                | <i>Determination of Haloacetic Acids, Bromate, and Dalapon in Drinking Water by Ion Chromatography Electrospray Ionization Tandem Mass Spectrometry (IC-ESI-MS/MS)</i>                                            | September 2009 | EPA 815-B-09-012 | <a href="#">EPA 815-B-09-012</a>                     |

## Chlorite (Daily Monitoring)

| Method          | Organization       | Reference Title                                                                                                                                                                                                   | Date        | EPA Publication Number | Source of Method                                     |
|-----------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|------------------------------------------------------|
| D6581-00        | ASTM International | <i>Standard Test Methods for Bromate, Bromide, Chlorate and Chlorite in Drinking Water by Chemically Suppressed Ion Chromatography</i>                                                                            | 2000        |                        | <a href="#">ASTM International</a>                   |
| D6581-08 A      | ASTM International | <i>Standard Test Methods for Bromate, Bromide, Chlorate and Chlorite in Drinking Water by (Chemically) Suppressed Ion Chromatography</i>                                                                          | 2008        |                        | <a href="#">ASTM International</a>                   |
| D6581-08 B      | ASTM International | <i>Standard Test Methods for Bromate, Bromide, Chlorate and Chlorite in Drinking Water by (Electrolytically) Suppressed Ion Chromatography</i>                                                                    | 2008        |                        | <a href="#">ASTM International</a>                   |
| 300.0, Rev. 2.1 | EPA                | <i>In Methods for the Determination of Inorganic Substances in Environmental Samples</i>                                                                                                                          | August 1993 | EPA/600/R-93-100       | <a href="#">National Environmental Methods Index</a> |
| 300.1, Rev. 1.0 | EPA                | <i>In Methods for the Determination of Organic and Inorganic Compounds in Drinking Water, Volume I</i>                                                                                                            | August 2000 | EPA 815-R-00-014       | <a href="#">National Environmental Methods Index</a> |
| 317, Rev. 2.0   | EPA                | <i>Determination of Inorganic Oxyhalide Disinfection Byproducts in Drinking Water using Ion Chromatography with the Addition of a Postcolumn Reagent for Trace Bromate Analysis</i>                               | July 2001   | EPA 815-B-01-001       | <a href="#">EPA 815-B-01-001</a>                     |
| 326.0, Rev. 1.0 | EPA                | <i>Determination of Inorganic Oxyhalide Disinfection Byproducts in Drinking Water using Ion Chromatography Incorporating the Addition of a Suppressor Acidified Postcolumn Reagent for Trace Bromate Analysis</i> | June 2002   | EPA 815-R-03-007       | <a href="#">EPA 815-R-03-007</a>                     |

|                                  |                         |                                                                                                                                                                         |               |                  |                                          |
|----------------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|------------------------------------------|
| <b>327, Rev. 1.1</b>             | EPA                     | <i>Determination of Chlorine Dioxide and Chlorite Ion in Drinking Water using Lissamine Green B and Horseradish Peroxidase with Detection by Visible Spectrometry</i>   | May 2005      | EPA-815-R-05-008 | <a href="#">EPA-815-R-05-008</a>         |
| <b>ChlordioX Plus</b>            | Palintest               | <i>Palintest ChlordioX Plus Method – Chlorine Dioxide and Chlorite in Drinking Water by Amperometry using Disposable Sensors</i>                                        | November 2013 |                  | <a href="#">ChlordioX Plus</a>           |
| <b>ChlordioX Plus, Rev. 1.1</b>  | Palintest               | <i>Chlorine Dioxide and Chlorite in Drinking Water by Amperometry using Disposable Sensors</i>                                                                          | February 2020 |                  | <a href="#">ChlordioX Plus, Rev. 1.1</a> |
| <b>4500-ClO<sub>2</sub> E</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 19<sup>th</sup> Edition</i>                                                                            | 1995          |                  | <a href="#">Standard Methods</a>         |
| <b>4500-ClO<sub>2</sub> E</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 20<sup>th</sup> Edition</i>                                                                            | 1998          |                  | <a href="#">Standard Methods</a>         |
| <b>4500-ClO<sub>2</sub> E</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 21<sup>st</sup> Edition</i>                                                                            | 2005          |                  | <a href="#">Standard Methods</a>         |
| <b>4500-ClO<sub>2</sub> E</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 22<sup>nd</sup> Edition</i>                                                                            | 2012          |                  | <a href="#">Standard Methods</a>         |
| <b>4500-ClO<sub>2</sub> E</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 23<sup>rd</sup> Edition</i>                                                                            | 2017          |                  | <a href="#">Standard Methods</a>         |
| <b>4500-ClO<sub>2</sub> E</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 24<sup>th</sup> Edition</i>                                                                            | 2023          |                  | <a href="#">Standard Methods</a>         |
| <b>4500-ClO<sub>2</sub> E-00</b> | 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. | 2000          |                  | <a href="#">Standard Methods</a>         |

## Chlorite (Distribution System Monitoring)

| Method          | Organization       | Reference Title                                                                                                                                                                                                   | Date        | EPA Publication Number | Source of Method                                     |
|-----------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|------------------------------------------------------|
| D6581-00        | ASTM International | <i>Standard Test Methods for Bromate, Bromide, Chlorate and Chlorite in Drinking Water by Chemically Suppressed Ion Chromatography</i>                                                                            | 2000        |                        | <a href="#">ASTM International</a>                   |
| D6581-08 A      | ASTM International | <i>Standard Test Methods for Bromate, Bromide, Chlorate and Chlorite in Drinking Water by (Chemically) Suppressed Ion Chromatography</i>                                                                          | 2008        |                        | <a href="#">ASTM International</a>                   |
| D6581-08 B      | ASTM International | <i>Standard Test Methods for Bromate, Bromide, Chlorate and Chlorite in Drinking Water by (Electrolytically) Suppressed Ion Chromatography</i>                                                                    | 2008        |                        | <a href="#">ASTM International</a>                   |
| 300.0, Rev. 2.1 | EPA                | <i>In Methods for the Determination of Inorganic Substances in Environmental Samples</i>                                                                                                                          | August 1993 | EPA/600/R-93-100       | <a href="#">National Environmental Methods Index</a> |
| 300.1, Rev. 1.0 | EPA                | <i>In Methods for the Determination of Organic and Inorganic Compounds in Drinking Water, Volume I</i>                                                                                                            | August 2000 | EPA 815-R-00-014       | <a href="#">National Environmental Methods Index</a> |
| 317, Rev. 2.0   | EPA                | <i>Determination of Inorganic Oxyhalide Disinfection Byproducts in Drinking Water using Ion Chromatography with the Addition of a Postcolumn Reagent for Trace Bromate Analysis</i>                               | July 2001   | EPA 815-B-01-001       | <a href="#">EPA 815-B-01-001</a>                     |
| 326.0, Rev. 1.0 | EPA                | <i>Determination of Inorganic Oxyhalide Disinfection Byproducts in Drinking Water using Ion Chromatography Incorporating the Addition of a Suppressor Acidified Postcolumn Reagent for Trace Bromate Analysis</i> | June 2002   | EPA 815-R-03-007       | <a href="#">EPA 815-R-03-007</a>                     |

## Haloacetic Acids (HAA5)

| Method          | Organization     | Reference Title                                                                                                                                                                 | Date           | EPA Publication Number | Source of Method                                     |
|-----------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------|------------------------------------------------------|
| 552.1, Rev. 1.0 | EPA              | <i>In Methods for the Determination of Organic Compounds in Drinking Water – Supplement II</i>                                                                                  | August 1992    | EPA/600/R-92-129       | <a href="#">National Environmental Methods Index</a> |
| 552.2, Rev. 1.0 | EPA              | <i>In Methods for the Determination of Organic Compounds in Drinking Water – Supplement III</i>                                                                                 | August 1995    | EPA/600/R-95-131       | <a href="#">National Environmental Methods Index</a> |
| 552.3, Rev. 1.0 | EPA              | <i>Determination of Haloacetic Acids and Dalapon in Drinking Water by Liquid-Liquid Microextraction, Derivatization, and Gas Chromatography with Electron Capture Detection</i> | July 2003      | EPA 815-B-03-002       | <a href="#">EPA 815-B-03-002</a>                     |
| 557             | EPA              | <i>Determination of Haloacetic Acids, Bromate, and Dalapon in Drinking Water by Ion Chromatography Electrospray Ionization Tandem Mass Spectrometry (IC-ESI-MS/MS)</i>          | September 2009 | EPA 815-B-09-012       | <a href="#">EPA 815-B-09-012</a>                     |
| 6251 B          | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 19<sup>th</sup> Edition</i>                                                                                    | 1995           |                        | <a href="#">Standard Methods</a>                     |
| 6251 B          | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 20<sup>th</sup> Edition</i>                                                                                    | 1998           |                        | <a href="#">Standard Methods</a>                     |
| 6251 B          | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 21<sup>st</sup> Edition</i>                                                                                    | 2005           |                        | <a href="#">Standard Methods</a>                     |
| 6251 B          | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 22<sup>nd</sup> Edition</i>                                                                                    | 2012           |                        | <a href="#">Standard Methods</a>                     |
| 6251 B          | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 23<sup>rd</sup> Edition</i>                                                                                    | 2017           |                        | <a href="#">Standard Methods</a>                     |
| 6251 B          | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 24<sup>th</sup> Edition</i>                                                                                    | 2023           |                        | <a href="#">Standard Methods</a>                     |



|                                    |                         |                                                                                                                                                                         |              |  |                                             |
|------------------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--|---------------------------------------------|
| <b>6251 B-94</b>                   | 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. | 1994         |  | <a href="#">Standard Methods</a>            |
| <b>6251 B-07</b>                   | 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. | 2007         |  | <a href="#">Standard Methods</a>            |
| <b>Thermo Fisher 557.1, v. 1.0</b> | Thermo Fisher           | <i>Determination of Haloacetic Acids in Drinking Water using Two-Dimensional Ion Chromatography with Suppressed Conductivity Detection</i>                              | January 2017 |  | <a href="#">Thermo Fisher 557.1, v. 1.0</a> |

### Total Trihalomethanes (TTHM)

| Method                 | Organization | Reference Title                                                                                                                              | Date        | EPA Publication Number | Source of Method                                     |
|------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|------------------------------------------------------|
| <b>502.2, Rev. 2.1</b> | EPA          | <i>In Methods for the Determination of Organic Compounds in Drinking Water – Supplement III</i>                                              | August 1995 | EPA/600/R-95-131       | <a href="#">National Environmental Methods Index</a> |
| <b>524.2, Rev. 4.1</b> | EPA          | <i>In Methods for the Determination of Organic Compounds in Drinking Water – Supplement III</i>                                              | August 1995 | EPA/600/R-95-131       | <a href="#">National Environmental Methods Index</a> |
| <b>524.3</b>           | EPA          | <i>Measurement of Purgeable Organic Compounds in Water by Capillary Column Gas Chromatography/Mass Spectrometry</i>                          | June 2009   | EPA 815-B-09-009       | <a href="#">EPA 815-B-09-009</a>                     |
| <b>524.4</b>           | EPA          | <i>Measurement of Purgeable Organic Compounds in Water by Capillary Column Gas Chromatography/Mass Spectrometry using Nitrogen Purge Gas</i> | May 2013    | EPA 815-R-13-002       | <a href="#">EPA 815-R-13-002</a>                     |

|                        |     |                                                                                                 |             |                  |                                                      |
|------------------------|-----|-------------------------------------------------------------------------------------------------|-------------|------------------|------------------------------------------------------|
| <b>551.1, Rev. 1.0</b> | EPA | <i>In Methods for the Determination of Organic Compounds in Drinking Water – Supplement III</i> | August 1995 | EPA/600/R-95-131 | <a href="#">National Environmental Methods Index</a> |
|------------------------|-----|-------------------------------------------------------------------------------------------------|-------------|------------------|------------------------------------------------------|

## Water Quality Parameters

### Alkalinity

| Method            | Organization       | Reference Title                                                                                          | Date | EPA Publication Number | Source of Method                   |
|-------------------|--------------------|----------------------------------------------------------------------------------------------------------|------|------------------------|------------------------------------|
| <b>D1067-92 B</b> | ASTM International | <i>Standard Test Methods for Acidity or Alkalinity of Water: Electrometric or Color-Change Titration</i> | 1992 |                        | <a href="#">ASTM International</a> |
| <b>D1067-02 B</b> | ASTM International | <i>Standard Test Methods for Acidity or Alkalinity of Water: Electrometric or Color-Change Titration</i> | 2002 |                        | <a href="#">ASTM International</a> |
| <b>D1067-06 B</b> | ASTM International | <i>Standard Test Methods for Acidity or Alkalinity of Water: Electrometric or Color-Change Titration</i> | 2006 |                        | <a href="#">ASTM International</a> |
| <b>D1067-11 B</b> | ASTM International | <i>Standard Test Methods for Acidity or Alkalinity of Water: Electrometric or Color-Change Titration</i> | 2011 |                        | <a href="#">ASTM International</a> |
| <b>D1067-16B</b>  | ASTM International | <i>Standard Test Methods for Acidity or Alkalinity of Water: Electrometric or Color-Change Titration</i> | 2016 |                        | <a href="#">ASTM International</a> |
| <b>2320 B</b>     | Standard Methods   | <i>Standard Methods for the Examination of Water and Wastewater, 18<sup>th</sup> Edition</i>             | 1992 |                        | <a href="#">Standard Methods</a>   |
| <b>2320 B</b>     | Standard Methods   | <i>Standard Methods for the Examination of Water and Wastewater, 19<sup>th</sup> Edition</i>             | 1995 |                        | <a href="#">Standard Methods</a>   |
| <b>2320 B</b>     | Standard Methods   | <i>Standard Methods for the Examination of Water and Wastewater, 20<sup>th</sup> Edition</i>             | 1998 |                        | <a href="#">Standard Methods</a>   |
| <b>2320 B</b>     | Standard Methods   | <i>Standard Methods for the Examination of Water and Wastewater, 21<sup>st</sup> Edition</i>             | 2005 |                        | <a href="#">Standard Methods</a>   |

|                  |                         |                                                                                                                                                                                                         |      |  |                                  |
|------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--|----------------------------------|
| <b>2320 B</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 22<sup>nd</sup> Edition</i>                                                                                                            | 2012 |  | <a href="#">Standard Methods</a> |
| <b>2320 B</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 23<sup>rd</sup> Edition</i>                                                                                                            | 2017 |  | <a href="#">Standard Methods</a> |
| <b>2320 B</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 24<sup>th</sup> Edition</i>                                                                                                            | 2023 |  | <a href="#">Standard Methods</a> |
| <b>2320 B-97</b> | 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.                                 | 1997 |  | <a href="#">Standard Methods</a> |
| <b>I-1030-85</b> | US Geological Survey    | In <i>Methods for Determination of Inorganic Substances in Water and Fluvial Sediments</i> , USGS Series: Techniques of Water-Resource Investigation Report; edited by Fishman, M.J. and Friedman, L.C. | 1989 |  | <a href="#">USGS</a>             |

## Bromide

| Method                 | Organization       | Reference Title                                                                                                                        | Date        | EPA Publication Number | Source of Method                                     |
|------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|------------------------------------------------------|
| <b>D6581-00</b>        | ASTM International | <i>Standard Test Methods for Bromate, Bromide, Chlorate and Chlorite in Drinking Water by Chemically Suppressed Ion Chromatography</i> | 2000        |                        | <a href="#">ASTM International</a>                   |
| <b>300.0, Rev. 2.1</b> | EPA                | In <i>Methods for the Determination of Inorganic Substances in Environmental Samples</i>                                               | August 1993 | EPA/600/R-93-100       | <a href="#">National Environmental Methods Index</a> |
| <b>300.1, Rev. 1.0</b> | EPA                | In <i>Methods for the Determination of Organic and Inorganic Compounds in Drinking Water, Volume I</i>                                 | August 2000 | EPA 815-R-00-014       | <a href="#">National Environmental Methods Index</a> |
| <b>317, Rev. 2.0</b>   | EPA                | <i>Determination of Inorganic Oxyhalide Disinfection Byproducts in Drinking Water using Ion</i>                                        | July 2001   | EPA 815-B-01-001       | <a href="#">EPA 815-B-01-001</a>                     |

|                        |     |                                                                                                                                                                                                                   |           |                  |                                  |
|------------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------|----------------------------------|
|                        |     | <i>Chromatography with the Addition of a Postcolumn Reagent for Trace Bromate Analysis</i>                                                                                                                        |           |                  |                                  |
| <b>326.0, Rev. 1.0</b> | EPA | <i>Determination of Inorganic Oxyhalide Disinfection Byproducts in Drinking Water using Ion Chromatography Incorporating the Addition of a Suppressor Acidified Postcolumn Reagent for Trace Bromate Analysis</i> | June 2002 | EPA 815-R-03-007 | <a href="#">EPA 815-R-03-007</a> |

### Dissolved Organic Carbon (DOC) for SUVA

DOC samples must be filtered through a 0.45 µm filter as soon as practical after sampling (not to exceed 48 hours). After filtration, DOC samples must be acidified to pH < 2. Analyze acidified DOC samples within 28 days of sample collection. Water passed through the filtration prior to filtration serves as the filtered blank. Filtered blank DOC must be < 0.5 mg/L. Inorganic carbon must be removed from samples prior to analysis.

| <b>Method</b>          | <b>Organization</b> | <b>Reference Title</b>                                                                                               | <b>Date</b>    | <b>EPA Publication Number</b> | <b>Source of Method</b>          |
|------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------|----------------------------------|
| <b>415.3, Rev. 1.1</b> | EPA                 | <i>Determination of Total Organic Carbon and Specific UV Absorbance at 254 nm in Source Water and Drinking Water</i> | February 2005  | EPA/600/R-05/055              | <a href="#">EPA/600/R-05/055</a> |
| <b>415.3, Rev. 1.2</b> | EPA                 | <i>Determination of Total Organic Carbon and Specific UV Absorbance at 254 nm in Source Water and Drinking Water</i> | September 2009 | EPA/600/R-09/122              | <a href="#">EPA/600/R-09/122</a> |
| <b>5310 B</b>          | Standard Methods    | <i>Standard Methods for the Examination of Water and Wastewater, 19<sup>th</sup> Edition</i>                         | 1995           |                               | <a href="#">Standard Methods</a> |
| <b>5310 B</b>          | Standard Methods    | <i>Standard Methods for the Examination of Water and Wastewater, 20<sup>th</sup> Edition</i>                         | 1998           |                               | <a href="#">Standard Methods</a> |
| <b>5310 B</b>          | Standard Methods    | <i>Standard Methods for the Examination of Water and Wastewater, 21<sup>st</sup> Edition</i>                         | 2005           |                               | <a href="#">Standard Methods</a> |
| <b>5310 B</b>          | Standard Methods    | <i>Standard Methods for the Examination of Water and Wastewater, 22<sup>nd</sup> Edition</i>                         | 2012           |                               | <a href="#">Standard Methods</a> |

|                  |                         |                                                                                                                                     |      |  |                                  |
|------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------|------|--|----------------------------------|
| <b>5310 B</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 23<sup>rd</sup> Edition</i>                                        | 2017 |  | <a href="#">Standard Methods</a> |
| <b>5310 B</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 24<sup>th</sup> Edition</i>                                        | 2023 |  | <a href="#">Standard Methods</a> |
| <b>5310 C</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 19<sup>th</sup> Edition</i>                                        | 1995 |  | <a href="#">Standard Methods</a> |
| <b>5310 C</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 20<sup>th</sup> Edition</i>                                        | 1998 |  | <a href="#">Standard Methods</a> |
| <b>5310 C</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 21<sup>st</sup> Edition</i>                                        | 2005 |  | <a href="#">Standard Methods</a> |
| <b>5310 C</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 22<sup>nd</sup> Edition</i>                                        | 2012 |  | <a href="#">Standard Methods</a> |
| <b>5310 C</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 23<sup>rd</sup> Edition</i>                                        | 2017 |  | <a href="#">Standard Methods</a> |
| <b>5310 C</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 24<sup>th</sup> Edition</i>                                        | 2023 |  | <a href="#">Standard Methods</a> |
| <b>5310 D</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 19<sup>th</sup> Edition</i>                                        | 1995 |  | <a href="#">Standard Methods</a> |
| <b>5310 D</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 20<sup>th</sup> Edition</i>                                        | 1998 |  | <a href="#">Standard Methods</a> |
| <b>5310 D</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 21<sup>st</sup> Edition</i>                                        | 2005 |  | <a href="#">Standard Methods</a> |
| <b>5310 D</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 22<sup>nd</sup> Edition</i>                                        | 2012 |  | <a href="#">Standard Methods</a> |
| <b>5310 B-00</b> | 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 | 2000 |  | <a href="#">Standard Methods</a> |

|                  |                         |                                                                                                                                                                         |      |  |                                  |
|------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--|----------------------------------|
|                  |                         | Subpart C of Part 141 are approved.                                                                                                                                     |      |  |                                  |
| <b>5310 C-00</b> | 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. | 2000 |  | <a href="#">Standard Methods</a> |
| <b>5310 D-00</b> | 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. | 2000 |  | <a href="#">Standard Methods</a> |

Magnesium

| <b>Method</b>    | <b>Organization</b> | <b>Reference Title</b>                                                                          | <b>Date</b> | <b>EPA Publication Number</b> | <b>Source of Method</b>            |
|------------------|---------------------|-------------------------------------------------------------------------------------------------|-------------|-------------------------------|------------------------------------|
| <b>D511-93 A</b> | ASTM International  | <i>Standard Test Methods for Calcium and Magnesium in Water: Complexometric Titration</i>       | 1993        |                               | <a href="#">ASTM International</a> |
| <b>D511-03 A</b> | ASTM International  | <i>Standard Test Methods for Calcium and Magnesium in Water: Complexometric Titration</i>       | 2003        |                               | <a href="#">ASTM International</a> |
| <b>D511-09 A</b> | ASTM International  | <i>Standard Test Methods for Calcium and Magnesium in Water: Complexometric Titration</i>       | 2009        |                               | <a href="#">ASTM International</a> |
| <b>D511-14 A</b> | ASTM International  | <i>Standard Test Methods for Calcium and Magnesium in Water: Complexometric Titration</i>       | 2014        |                               | <a href="#">ASTM International</a> |
| <b>D511-93 B</b> | ASTM International  | <i>Standard Test Methods for Calcium and Magnesium in Water: Atomic Absorption Spectrometry</i> | 1993        |                               | <a href="#">ASTM International</a> |
| <b>D511-03 B</b> | ASTM International  | <i>Standard Test Methods for Calcium and Magnesium in Water: Atomic Absorption Spectrometry</i> | 2003        |                               | <a href="#">ASTM International</a> |
| <b>D511-09 B</b> | ASTM International  | <i>Standard Test Methods for Calcium and Magnesium in Water: Atomic Absorption Spectrometry</i> | 2009        |                               | <a href="#">ASTM International</a> |

|                        |                    |                                                                                                                                          |              |                  |                                                      |
|------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------|------------------------------------------------------|
| <b>D511-14 B</b>       | ASTM International | <i>Standard Test Methods for Calcium and Magnesium in Water: Complexometric Titration</i>                                                | 2014         |                  | <a href="#">ASTM International</a>                   |
| <b>D6919-03</b>        | ASTM International | <i>Standard Test Method for Determination of Dissolved Alkali and Alkaline Earth Cations and Ammonium in Water by Ion Chromatography</i> | 2003         |                  | <a href="#">ASTM International</a>                   |
| <b>D6919-09</b>        | ASTM International | <i>Standard Test Method for Determination of Dissolved Alkali and Alkaline Earth Cations and Ammonium in Water by Ion Chromatography</i> | 2009         |                  | <a href="#">ASTM International</a>                   |
| <b>D6919-17</b>        | ASTM International | <i>Standard Test Method for Determination of Dissolved Alkali and Alkaline Earth Cations and Ammonium in Water by Ion Chromatography</i> | 2017         |                  | <a href="#">ASTM International</a>                   |
| <b>200.5, Rev. 4.2</b> | EPA                | <i>Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma-Atomic Emission Spectrometry</i>       | October 2003 | EPA/600-R-06/115 | <a href="#">EPA/600-R-06/115</a>                     |
| <b>200.7, Rev. 4.4</b> | EPA                | <i>In Methods for the Determination of Metals in Environmental Samples, Supplement I</i>                                                 | May 1994     | EPA/600/R-94/111 | <a href="#">National Environmental Methods Index</a> |
| <b>3111 B</b>          | Standard Methods   | <i>Standard Methods for the Examination of Water and Wastewater, 18<sup>th</sup> Edition</i>                                             | 1992         |                  | <a href="#">Standard Methods</a>                     |
| <b>3111 B</b>          | Standard Methods   | <i>Standard Methods for the Examination of Water and Wastewater, 19<sup>th</sup> Edition</i>                                             | 1995         |                  | <a href="#">Standard Methods</a>                     |
| <b>3111 B</b>          | Standard Methods   | <i>Standard Methods for the Examination of Water and Wastewater, 21<sup>st</sup> Edition</i>                                             | 2005         |                  | <a href="#">Standard Methods</a>                     |
| <b>3111 B</b>          | Standard Methods   | <i>Standard Methods for the Examination of Water and Wastewater, 22<sup>nd</sup> Edition</i>                                             | 2012         |                  | <a href="#">Standard Methods</a>                     |
| <b>3111 B</b>          | Standard Methods   | <i>Standard Methods for the Examination of Water and Wastewater, 23<sup>rd</sup> Edition</i>                                             | 2017         |                  | <a href="#">Standard Methods</a>                     |

|                  |                  |                                                                                              |      |  |                                  |
|------------------|------------------|----------------------------------------------------------------------------------------------|------|--|----------------------------------|
| <b>3111 B</b>    | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 24<sup>th</sup> Edition</i> | 2023 |  | <a href="#">Standard Methods</a> |
| <b>3120 B</b>    | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 18<sup>th</sup> Edition</i> | 1992 |  | <a href="#">Standard Methods</a> |
| <b>3120 B</b>    | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 19<sup>th</sup> Edition</i> | 1995 |  | <a href="#">Standard Methods</a> |
| <b>3120 B</b>    | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 20<sup>th</sup> Edition</i> | 1998 |  | <a href="#">Standard Methods</a> |
| <b>3120 B</b>    | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 21<sup>st</sup> Edition</i> | 2005 |  | <a href="#">Standard Methods</a> |
| <b>3120 B</b>    | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 22<sup>nd</sup> Edition</i> | 2012 |  | <a href="#">Standard Methods</a> |
| <b>3120 B</b>    | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 23<sup>rd</sup> Edition</i> | 2017 |  | <a href="#">Standard Methods</a> |
| <b>3120 B</b>    | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 24<sup>th</sup> Edition</i> | 2023 |  | <a href="#">Standard Methods</a> |
| <b>3500-Mg E</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 18<sup>th</sup> Edition</i> | 1992 |  | <a href="#">Standard Methods</a> |
| <b>3500-Mg E</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 19<sup>th</sup> Edition</i> | 1995 |  | <a href="#">Standard Methods</a> |
| <b>3500-Mg B</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 20<sup>th</sup> Edition</i> | 1998 |  | <a href="#">Standard Methods</a> |
| <b>3500-Mg B</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 21<sup>st</sup> Edition</i> | 2005 |  | <a href="#">Standard Methods</a> |
| <b>3500-Mg B</b> | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 22<sup>nd</sup> Edition</i> | 2012 |  | <a href="#">Standard Methods</a> |



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|---------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--|----------------------------------|
| <b>3500-Mg B</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 23<sup>rd</sup> Edition</i>                                                                            | 2017 |  | <a href="#">Standard Methods</a> |
| <b>3500-Mg B</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 24<sup>th</sup> Edition</i>                                                                            | 2023 |  | <a href="#">Standard Methods</a> |
| <b>3111 B-99</b>    | 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. | 1999 |  | <a href="#">Standard Methods</a> |
| <b>3120 B-99</b>    | 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. | 1999 |  | <a href="#">Standard Methods</a> |
| <b>3500-Mg B-97</b> | 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. | 1997 |  | <a href="#">Standard Methods</a> |

## pH

| <b>Method</b>   | <b>Organization</b> | <b>Reference Title</b>                                      | <b>Date</b> | <b>EPA Publication Number</b> | <b>Source of Method</b>                              |
|-----------------|---------------------|-------------------------------------------------------------|-------------|-------------------------------|------------------------------------------------------|
| <b>D1293-95</b> | ASTM International  | <i>Standard Test Methods for pH of Water</i>                | 1995        |                               | <a href="#">ASTM International</a>                   |
| <b>D1293-99</b> | ASTM International  | <i>Standard Test Methods for pH of Water</i>                | 1999        |                               | <a href="#">ASTM International</a>                   |
| <b>D1293-12</b> | ASTM International  | <i>Standard Test Methods for pH of Water</i>                | 2012        |                               | <a href="#">ASTM International</a>                   |
| <b>D1293-18</b> | ASTM International  | <i>Standard Test Methods for pH of Water</i>                | 2018        |                               | <a href="#">ASTM International</a>                   |
| <b>150.1</b>    | EPA                 | <i>In Methods for Chemical Analysis of Water and Wastes</i> | March 1983  | EPA/600/4-79/020              | <a href="#">National Environmental Methods Index</a> |
| <b>150.2</b>    | EPA                 | <i>In Methods for Chemical Analysis of Water and Wastes</i> | March 1983  | EPA/600/4-79/020              | <a href="#">National Environmental Methods Index</a> |

|                                |                         |                                                                                                                                                                         |               |                  |                                  |
|--------------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|----------------------------------|
| <b>150.3</b>                   | EPA                     | <i>Determination of pH in Drinking Water</i>                                                                                                                            | February 2017 | EPA-815-B-17-001 | <a href="#">EPA-815-B-17-001</a> |
| <b>4500-H<sup>+</sup> B</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 18<sup>th</sup> Edition</i>                                                                            | 1992          |                  | <a href="#">Standard Methods</a> |
| <b>4500-H<sup>+</sup> B</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 19<sup>th</sup> Edition</i>                                                                            | 1995          |                  | <a href="#">Standard Methods</a> |
| <b>4500-H<sup>+</sup> B</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 20<sup>th</sup> Edition</i>                                                                            | 1998          |                  | <a href="#">Standard Methods</a> |
| <b>4500-H<sup>+</sup> B</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 21<sup>st</sup> Edition</i>                                                                            | 2005          |                  | <a href="#">Standard Methods</a> |
| <b>4500-H<sup>+</sup> B</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 22<sup>nd</sup> Edition</i>                                                                            | 2012          |                  | <a href="#">Standard Methods</a> |
| <b>4500-H<sup>+</sup> B</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 23<sup>rd</sup> Edition</i>                                                                            | 2017          |                  | <a href="#">Standard Methods</a> |
| <b>4500-H<sup>+</sup> B</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 24<sup>th</sup> Edition</i>                                                                            | 2023          |                  | <a href="#">Standard Methods</a> |
| <b>4500-H<sup>+</sup> B-00</b> | 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. | 2000          |                  | <a href="#">Standard Methods</a> |

## SUVA

| <b>Method</b>          | <b>Organization</b> | <b>Reference Title</b>                                                                                               | <b>Date</b>    | <b>EPA Publication Number</b> | <b>Source of Method</b>          |
|------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------|----------------------------------|
| <b>415.3, Rev. 1.1</b> | EPA                 | <i>Determination of Total Organic Carbon and Specific UV Absorbance at 254 nm in Source Water and Drinking Water</i> | February 2005  | EPA/600/R-05/055              | <a href="#">EPA/600/R-05/055</a> |
| <b>415.3, Rev. 1.2</b> | EPA                 | <i>Determination of Total Organic Carbon and Specific UV</i>                                                         | September 2009 | EPA/600/R-09/122              | <a href="#">EPA/600/R-09/122</a> |

|  |  |                                                                |  |  |  |
|--|--|----------------------------------------------------------------|--|--|--|
|  |  | <i>Absorbance at 254 nm in Source Water and Drinking Water</i> |  |  |  |
|--|--|----------------------------------------------------------------|--|--|--|

## Total Organic Carbon

Inorganic carbon must be removed from samples prior to analysis. TOC samples are not filtered prior to analysis. Acidify TOC samples to pH < 2 at the time of sample collection. Analyze acidified TOC samples within 28 days.

| Method                      | Organization     | Reference Title                                                                                                        | Date           | EPA Publication Number | Source of Method                     |
|-----------------------------|------------------|------------------------------------------------------------------------------------------------------------------------|----------------|------------------------|--------------------------------------|
| <b>415.3, Rev. 1.1</b>      | EPA              | <i>Determination of Total Organic Carbon and Specific UV Absorbance at 254 nm in Source Water and Drinking Water</i>   | February 2005  | EPA/600/R-05/055       | <a href="#">EPA/600/R-05/055</a>     |
| <b>415.3, Rev. 1.2</b>      | EPA              | <i>Determination of Total Organic Carbon and Specific UV Absorbance at 254 nm in Source Water and Drinking Water</i>   | September 2009 | EPA/600/R-09/122       | <a href="#">EPA/600/R-09/122</a>     |
| <b>Hach 10261, Rev. 1.2</b> | Hach Company     | <i>Total Organic Carbon in Finished Drinking Water by Catalyzed Ozone Hydroxyl Radical Oxidation Infrared Analysis</i> | December 2015  |                        | <a href="#">Hach 10261, Rev. 1.2</a> |
| <b>Hach 10267, Rev. 1.2</b> | Hach Company     | <i>Spectrophotometric Measurement of Total Organic Carbon (TOC) in Finished Drinking Water</i>                         | December 2015  |                        | <a href="#">Hach 10267, Rev. 1.2</a> |
| <b>5310 B</b>               | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 19<sup>th</sup> Edition</i>                           | 1995           |                        | <a href="#">Standard Methods</a>     |
| <b>5310 B</b>               | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 20<sup>th</sup> Edition</i>                           | 1998           |                        | <a href="#">Standard Methods</a>     |
| <b>5310 B</b>               | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 21<sup>st</sup> Edition</i>                           | 2005           |                        | <a href="#">Standard Methods</a>     |
| <b>5310 B</b>               | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 22<sup>nd</sup> Edition</i>                           | 2012           |                        | <a href="#">Standard Methods</a>     |
| <b>5310 B</b>               | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 23<sup>rd</sup> Edition</i>                           | 2017           |                        | <a href="#">Standard Methods</a>     |

|                  |                         |                                                                                                                                                                         |      |  |                                  |
|------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--|----------------------------------|
| <b>5310 B</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 24<sup>th</sup> Edition</i>                                                                            | 2023 |  | <a href="#">Standard Methods</a> |
| <b>5310 C</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 19<sup>th</sup> Edition</i>                                                                            | 1995 |  | <a href="#">Standard Methods</a> |
| <b>5310 C</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 20<sup>th</sup> Edition</i>                                                                            | 1998 |  | <a href="#">Standard Methods</a> |
| <b>5310 C</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 21<sup>st</sup> Edition</i>                                                                            | 2005 |  | <a href="#">Standard Methods</a> |
| <b>5310 C</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 22<sup>nd</sup> Edition</i>                                                                            | 2012 |  | <a href="#">Standard Methods</a> |
| <b>5310 C</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 23<sup>rd</sup> Edition</i>                                                                            | 2017 |  | <a href="#">Standard Methods</a> |
| <b>5310 C</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 24<sup>th</sup> Edition</i>                                                                            | 2023 |  | <a href="#">Standard Methods</a> |
| <b>5310 D</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 19<sup>th</sup> Edition</i>                                                                            | 1995 |  | <a href="#">Standard Methods</a> |
| <b>5310 D</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 20<sup>th</sup> Edition</i>                                                                            | 1998 |  | <a href="#">Standard Methods</a> |
| <b>5310 D</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 21<sup>st</sup> Edition</i>                                                                            | 2005 |  | <a href="#">Standard Methods</a> |
| <b>5310 D</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 22<sup>nd</sup> Edition</i>                                                                            | 2012 |  | <a href="#">Standard Methods</a> |
| <b>5310 B-00</b> | 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. | 2000 |  | <a href="#">Standard Methods</a> |
| <b>5310 C-00</b> | Standard Methods Online | Online version. Approval year is designated by the last 2 digits.                                                                                                       | 2000 |  | <a href="#">Standard Methods</a> |

|                  |                         |                                                                                                                                                                         |      |  |                                  |
|------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--|----------------------------------|
|                  |                         | Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved.                                                                   |      |  |                                  |
| <b>5310 D-00</b> | 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. | 2000 |  | <a href="#">Standard Methods</a> |

**UV254 for SUVA**

UV absorption must be measured at 253.7 nm (rounded to 254 nm). Prior to UV254 analysis, filter samples through 0.45 µm filter. Do not adjust pH of UV254 samples. Analyze samples as soon as practical after sampling, not to exceed 48 hours.

| <b>Method</b>          | <b>Organization</b> | <b>Reference Title</b>                                                                                               | <b>Date</b>    | <b>EPA Publication Number</b> | <b>Source of Method</b>          |
|------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------|----------------------------------|
| <b>415.3, Rev. 1.1</b> | EPA                 | <i>Determination of Total Organic Carbon and Specific UV Absorbance at 254 nm in Source Water and Drinking Water</i> | February 2005  | EPA/600/R-05/055              | <a href="#">EPA/600/R-05/055</a> |
| <b>415.3, Rev. 1.2</b> | EPA                 | <i>Determination of Total Organic Carbon and Specific UV Absorbance at 254 nm in Source Water and Drinking Water</i> | September 2009 | EPA/600/R-09/122              | <a href="#">EPA/600/R-09/122</a> |
| <b>5910 B</b>          | Standard Methods    | <i>Standard Methods for the Examination of Water and Wastewater, 19<sup>th</sup> Edition</i>                         | 1995           |                               | <a href="#">Standard Methods</a> |
| <b>5910 B</b>          | Standard Methods    | <i>Standard Methods for the Examination of Water and Wastewater, 20<sup>th</sup> Edition</i>                         | 1998           |                               | <a href="#">Standard Methods</a> |
| <b>5910 B</b>          | Standard Methods    | <i>Standard Methods for the Examination of Water and Wastewater, 21<sup>st</sup> Edition</i>                         | 2005           |                               | <a href="#">Standard Methods</a> |
| <b>5910 B</b>          | Standard Methods    | <i>Standard Methods for the Examination of Water and Wastewater, 22<sup>nd</sup> Edition</i>                         | 2012           |                               | <a href="#">Standard Methods</a> |
| <b>5910 B</b>          | Standard Methods    | <i>Standard Methods for the Examination of Water and Wastewater, 23<sup>rd</sup> Edition</i>                         | 2017           |                               | <a href="#">Standard Methods</a> |

|                  |                         |                                                                                                                                                                         |      |  |                                  |
|------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--|----------------------------------|
| <b>5910 B</b>    | Standard Methods        | <i>Standard Methods for the Examination of Water and Wastewater, 24<sup>th</sup> Edition</i>                                                                            | 2023 |  | <a href="#">Standard Methods</a> |
| <b>5910 B-00</b> | 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. | 2000 |  | <a href="#">Standard Methods</a> |
| <b>5910 B-11</b> | 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. | 2011 |  | <a href="#">Standard Methods</a> |