



Contaminant				EPA	
Method	Organization	Reference Title	Date	Publication Number	Source of Method

### Microbial Contaminants

#### **Escherichia coli**

The time from sample collection to initiation of analysis may not exceed 30 hours. The ground water system is encouraged but is not required to hold samples below 10°C during transit.

A standard sample volume of at least 100 mL must be collected for fecal indicator analysis regardless of the fecal indicator or analytical method used.

9223 B-97	Standard Methods Online	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.			<a href="http://www.standardmethods.org/">http://www.standardmethods.org/</a>
Colilert®, Colisure®, and Colilert-18® media are approved for use.					

E*Colite® Test	Charm Sciences, Inc.	Charm E*Colite Test, "Charm E*Colite Presence/Absence Test for Detection and Identification of Coliform Bacteria and <i>Escherichia coli</i> in Drinking Water"	January 9, 1998		Charm Sciences, Inc
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m-ColiBlue24® Test	Hach Co.	m-ColiBlue 24 Test, "Total Coliforms and <i>E. coli</i> Membrane Filtration Method with m-ColiBlue 24 Broth," Method No. 10029, Revision 2.	August 17, 1999		Hach Company
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#### **Enterococci**

The time from sample collection to initiation of analysis may not exceed 30 hours. The ground water system is encouraged but is not required to hold samples below 10°C during transit.

A standard sample volume of at least 100 mL must be collected for fecal indicator analysis regardless of the fecal indicator or analytical method used.

1600	EPA	Enterococci in Water by Membrane Filtration Using membrane-Enterococcus Indoxyl-B-D-Glucoside Agar (mEI)	September 2002	EPA 821-R-02-022	<a href="http://www.epa.gov/nerlcwww/online.htm">http://www.epa.gov/nerlcwww/online.htm</a>
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EPA Method 1600 is an approved variation of Standard Method 9230 C. The holding time and temperature for ground water samples are specified in the rule (see above note), rather than as specified in Section 8 of EPA Method 1600.

9230 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998		Standard Methods
9230 C	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998		Standard Methods



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### Disinfectants

#### Free Chlorine

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

If approved by the State, free chlorine may be measured using ITS free chlorine test strips. Use of the test strips is described in Method D99-003, "Free Chlorine Species (HOCl- and OCl-) by Test Strip," Revision 3.0, November 21, 2003, available from Industrial Test Systems, Inc., 1875 Langston St., Rock Hill, SC 29730.

4500-Cl D-00	Standard Methods Online	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.			<a href="http://www.standardmethods.org/">http://www.standardmethods.org/</a>
4500-Cl F	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992		Standard Methods
4500-Cl F	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995		Standard Methods
4500-Cl F	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998		Standard Methods
4500-Cl F	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005		Standard Methods
4500-Cl F-00	Standard Methods Online	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.			<a href="http://www.standardmethods.org/">http://www.standardmethods.org/</a>
4500-Cl G	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992		Standard Methods
4500-Cl G	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995		Standard Methods
4500-Cl G	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998		Standard Methods

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If approved by the State, free chlorine may be measured using ITS free chlorine test strips. Use of the test strips is described in Method D99-003, "Free Chlorine Species (HOCl- and OCl-) by Test Strip," Revision 3.0, November 21, 2003, available from Industrial Test Systems, Inc., 1875 Langston St., Rock Hill, SC 29730.					
4500-Cl G	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005		Standard Methods
4500-Cl G-00	Standard Methods Online	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.			<a href="http://www.standardmethods.org/">http://www.standardmethods.org/</a>
4500-Cl H	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992		Standard Methods
4500-Cl H	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995		Standard Methods
4500-Cl H	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998		Standard Methods
4500-Cl H	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005		Standard Methods
4500-Cl H-00	Standard Methods Online	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.			<a href="http://www.standardmethods.org/">http://www.standardmethods.org/</a>
D1253-03	ASTM International	Annual Book of ASTM Standards, Vol. 11.01			<a href="http://www.astm.org">http://www.astm.org</a>
D1253-86	ASTM International	Annual Book of ASTM Standards, Vol. 11.01			<a href="http://www.astm.org">http://www.astm.org</a>

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Method	Organization	Reference Title	Date		
<b>Disinfectants</b>					
<b>Total Chlorine</b> If approved by the State, residual disinfectant concentrations for free chlorine and combined chlorine may be measured using DPD colorimetric test kits.					
4500-Cl D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992		Standard Methods
4500-Cl D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995		Standard Methods
4500-Cl D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998		Standard Methods
4500-Cl D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005		Standard Methods
4500-Cl D-00	Standard Methods Online	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.			<a href="http://www.standardmethods.org/">http://www.standardmethods.org/</a>
4500-Cl E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992		Standard Methods
4500-Cl E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995		Standard Methods
4500-Cl E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998		Standard Methods
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<b>Disinfectants</b>					
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4500-Cl F	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992		Standard Methods
4500-Cl F	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995		Standard Methods
4500-Cl F	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998		Standard Methods
4500-Cl F	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005		Standard Methods
4500-Cl F-00	Standard Methods Online	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.			<a href="http://www.standardmethods.org/">http://www.standardmethods.org/</a>
4500-Cl G	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992		Standard Methods
4500-Cl G	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995		Standard Methods
4500-Cl G	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998		Standard Methods
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4500-Cl G-00	Standard Methods Online	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.			<a href="http://www.standardmethods.org/">http://www.standardmethods.org/</a>

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4500-Cl I	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992		Standard Methods
4500-Cl I	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995		Standard Methods
4500-Cl I	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998		Standard Methods
4500-Cl I	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005		Standard Methods
4500-Cl I-00	Standard Methods Online	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.			<a href="http://www.standardmethods.org/">http://www.standardmethods.org/</a>
D1253-03	ASTM International	Annual Book of ASTM Standards, Vol. 11.01			<a href="http://www.astm.org">http://www.astm.org</a>
D1253-86	ASTM International	Annual Book of ASTM Standards, Vol. 11.01			<a href="http://www.astm.org">http://www.astm.org</a>
<b>Chlorine Dioxide</b>					
327 Rev 1.1	EPA	Determination of Chlorine Dioxide and Chlorite Ion in Drinking Water Using Lissamine Green B and Horseradish Peroxidase with Detection by Visible Spectrophotometry	May 2005	EPA 815-R-05-008	<a href="http://www.epa.gov/safewater/methods/sourcalt.html">http://www.epa.gov/safewater/methods/sourcalt.html</a>
4500-ClO2 C	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992		Standard Methods

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<b>Disinfectants</b>					
<b>Chlorine Dioxide</b>					
4500-CIO2 C	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995		Standard Methods
4500-CIO2 C	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998		Standard Methods
4500-CIO2 C	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005		Standard Methods
4500-CIO2 C-00	Standard Methods Online	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.			<a href="http://www.standardmethods.org/">http://www.standardmethods.org/</a>
4500-CIO2 D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992		Standard Methods
4500-CIO2 D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995		Standard Methods
4500-CIO2 D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998		Standard Methods
4500-CIO2 E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992		Standard Methods
4500-CIO2 E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995		Standard Methods
4500-CIO2 E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998		Standard Methods
4500-CIO2 E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005		Standard Methods

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<b>Ozone</b>					
4500-O3 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992		Standard Methods
4500-O3 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995		Standard Methods
4500-O3 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998		Standard Methods
4500-O3 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005		Standard Methods
4500-O3 B-97	Standard Methods Online	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.			<a href="http://www.standardmethods.org/">http://www.standardmethods.org/</a>

**Contact information for methods that are not available on the Internet are summarized in the report titled "Sources of Approved Analytical Methods for National Drinking Water Regulations."**