

organic carbon (TOC) and specific ultraviolet absorbance (SUVA). One of the methods that is currently approved for bromate, chlorite, and bromide can be used to determine chloride, fluoride, nitrate, nitrite, orthophosphate, and sulfate, so EPA is proposing to add it as an approved method for those contaminants in 40 CFR 141.23 and 40 CFR 143.4. EPA is also proposing to add the HAA5 method that includes dalapon to 40 CFR 141.24 for dalapon compliance monitoring.

Several of the methods that were promulgated with the Stage 1 DBPR

have been included in publications that were issued after December 1998. EPA is proposing to approve the use of the recently published versions of three methods for determining free, combined, and total chlorine residuals, two methods for total chlorine only, one method for free chlorine only, one method for chlorite and chlorine dioxide, one method for chlorine dioxide only, one method for HAA5, three methods for TOC and dissolved organic carbon (DOC), and one method for ultraviolet absorption at 254nm (UV₂₅₄). EPA is proposing to update the

citation for one method for bromate, chlorite, and bromide.

EPA is also proposing to standardize the HAA5 sample holding times and the bromate sample preservation procedure and holding time. EPA is clarifying which methods are approved for magnesium hardness determinations in 40 CFR 141.131 and 40 CFR 141.135.

Analytical methods that are proposed for approval or for which changes are proposed in today's rule are summarized in Table V-15 and are described in more detail later in this section.

TABLE V-15.—ANALYTICAL METHODS ADDRESSED IN TODAY'S PROPOSED RULE

Analyte	EPA method	Standard method ¹	Other
§ 141.23			
Fluoride	300.1		
Nitrate	300.1		
Nitrite	300.1		
Orthophosphate	300.1		
§ 141.24			
Dalapon	552.3		
§ 141.131—Disinfectants			
Chlorine (<i>free, combined, total</i>)		4500—Cl D 4500—Cl F 4500—Cl G 4500—Cl E 4500—Cl I 4500—Cl H	
(<i>total</i>)			
(<i>free</i>)			
Chlorine Dioxide	327.0	4500—ClO ₂ D 4500—ClO ₂ E	
§ 141.131—Disinfection Byproducts			
HAA5	552.1 ² 552.3	6251 B ²	
Bromate	300.1 ³ 317.0 Revision 2 321.8 ⁴ 326.0		ASTM D 6581-00
Chlorite (<i>monthly or daily</i>)	300.1 ³ 317.0 Revision 2 326.0		ASTM D 6581-00
(<i>daily</i>)	327.0	4500—ClO ₂ E	
§ 141.131—Other parameters			
Bromide	300.1 ³ 317.0 Revision 2 326.0		ASTM D 6581-00
TOC/DOC	415.3	5310 B 5310 C 5310 D 5910 B	
UV ₂₅₄	415.3		
SUVA	415.3		
§ 143.4			
Chloride	300.1		
Sulfate	300.1		

¹ EPA is proposing to cite both the 20th edition and the 2003 On-Line Version of *Standard Methods for the Examination of Water and Waste Water* in addition to the currently cited 19th editions for all methods listed in this column with the exception of 4500—ClO₂ D for chlorine dioxide which is not available in the 2003 On-Line Version.

² EPA is proposing to change the sample holding time to 14 days.

³ EPA is proposing to update the citation.

⁴ EPA is proposing that samples be preserved with 50 mg ethylenediamine/L and analyzed within 28 days.

2. How Was This Proposal Developed?

EPA evaluated the performance of the new methods for their applicability to compliance monitoring. The primary purpose of this evaluation was to determine if the new methods provide

data of comparable or better quality than the methods that are currently approved. Methods currently approved for DBPs were also examined to determine applicability to other regulated contaminants.

EPA reviewed the new publications of methods from consensus organizations such as Standard Methods and American Society for Testing and Materials (ASTM). As a result, EPA identified one new method from ASTM