



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
CINCINNATI, OHIO 45268

Approved analytical methods for 40 CFR Part 136 (wastewater) and Part 141 (drinking water)

Per the terms of the Alternate Test Procedure (ATP) program, the Office of Ground Water and Drinking Water's Technical Support Center (OGWDW/TSC) and the Engineering and Analytical Support Branch (EASB) have determined that the methods listed in Table 1 from the 21st edition of Standard Methods are equivalent versions of the corresponding online Standard Methods.

Based on this determination, the methods from the 21st edition listed in Table 1 may be used for compliance monitoring under National Primary Drinking Water Regulations (NPDWRs), National Secondary Drinking Water Regulations (NSDWRs), and the National Pollutant Discharge Elimination System (NPDES).

Table 1

Standard Methods Online Method	Standard Methods 21 st Edition Method	Approved for Drinking Water	Approved for Wastewater
9221 A-99	9221 A	X	X
9221 B-99	9221 B	X	X
9221 D-99	9221 D	X	
9222 A-97	9222 A	X	X
9222 B-97	9222 B	X	X
9222 C-97	9222 C	X	X
9223 B-97	9223 B	X	X
2320 B-97	2320 B	X	X
2510 B-97	2510 B	X	X
2550-00	2550	X	X
3111 B-99	3111 B	X	X
3111 D-99	3111 D	X	X
3112 B-99	3112 B	X	X



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Table 1 (continued)

Standard Methods Online Method	Standard Methods 21 st Edition Method	Approved for Drinking Water	Approved for Wastewater
3113 B-99	3113 B	X	X
3114 B-97	3114 B	X	X
3120 B-99	3120 B	X	X
3500-Ca B-97	3500-Ca B	X	X
3500-Mg B-97	3500-Mg B	X	X
4110 B-00	4110 B	X	X
4500-CN ⁻ E-99	4500-CN ⁻ E	X	X
4500-CN ⁻ F-99	4500-CN ⁻ F	X	X
4500-CN ⁻ G-99	4500-CN ⁻ G	X	X
4500-F ⁻ B-97	4500-F ⁻ B	X	X
4500-F ⁻ C-97	4500-F ⁻ C	X	X
4500-F ⁻ D-97	4500-F ⁻ D	X	X
4500-F ⁻ E-97	4500-F ⁻ E	X	X
4500-H ⁺ B-00	4500-H ⁺ B	X	X
4500-NO ₂ ⁻ B-00	4500-NO ₂ ⁻ B	X	X
4500-NO ₃ ⁻ D-00	4500-NO ₃ ⁻ D	X	X
4500-NO ₃ ⁻ E-00	4500-NO ₃ ⁻ E	X	X
4500-NO ₃ ⁻ F-00	4500-NO ₃ ⁻ F	X	X
4500-SiO ₂ C-97	4500-SiO ₂ C	X	X
4500-SiO ₂ D-97	4500-SiO ₂ D	X	X
4500-SiO ₂ E-97	4500-SiO ₂ E	X	X
7110 B-00	7110 B	X	X
7110 C-00	7110 C	X	X
7120-97	7120	X	X
7500- ³ H B-00	7500- ³ H B	X	X
7500-Cs B-00	7500-Cs B	X	X
7500-I B-00	7500-I B	X	X
7500-I C-00	7500-I C	X	X
7500-I D-00	7500-I D	X	X
7500-Ra B-01	7500-Ra B	X	X
7500-Ra C-01	7500-Ra C	X	X
7500-Ra D-01	7500-Ra D	X	X
7500-Sr B-01	7500-Sr B	X	X
7500-U B-00	7500-U B	X	X
7500-U C-00	7500-U C	X	X
4500-O ₃ B-97	4500-O ₃ B	X	
2130 B-01	2130 B	X	X



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Table 1 (continued)

Standard Methods Online Method	Standard Methods 21 st Edition Method	Approved for Drinking Water	Approved for Wastewater
4500-Cl D-00	4500-Cl D	X	X
4500-Cl E-00	4500-Cl E	X	X
4500-Cl F-00	4500-Cl F	X	X
4500-Cl G-00	4500-Cl G	X	X
4500-Cl H-00	4500-Cl H	X	X
4500-Cl I-00	4500-Cl I	X	X
4500-ClO ₂ C-00	4500-ClO ₂ C	X	X
4500-ClO ₂ E-00	4500-ClO ₂ E	X	X
4500-O ₃ B-97	4500-O ₃ B	X	X
9215 B-00	9215 B	X	X
9221 C-99	9221 C	X	X
9221 E-99	9221 E	X	X
9222 D-97	9222 D	X	X
2120 B-01	2120 B	X	X
2150 B-97	2150 B	X	X
2310 B(4a)-97	2310 B(4a)		X
2340 B-97	2340 B		X
2340 C-97	2340 C		X
2540 B-97	2540 B		X
2540 C-97	2540 C	X	X
2540 D-97	2540 D		X
2540 F-97	2540 F		X
3111 C-99	3111 C		X
3500-Al B-01	3500-Al B		X
3500-As B-97	3500-As B		X
3500-Cr B-01	3500-Cr B		X
3500-Cr C-01	3500-Cr C		X
3500-Cu B-99	3500-Cu B		X
3500-Cu C-99	3500-Cu C		X
3500-Fe B-97	3500-Fe B		X
3500-Pb B-97	3500-Pb B		X
3500-Mn B-99	3500-Mn B		X
3500-K B-97	3500-K B		X
3500-Na B-97	3500-Na B		X
3500-V B-97	3500-V B		X
3500-Zn B-97	3500-Zn B		X



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Table 1 (continued)

Standard Methods Online Method	Standard Methods 21 st Edition Method	Approved for Drinking Water	Approved for Wastewater
4500-B B-00	4500-B B		X
4500-CN ⁻ D-99	4500-CN ⁻ D		X
4500-CI B-00	4500-CI B		X
4500-CI C-00	4500-CI C		X
4500-CI ⁻ B-97	4500-CI ⁻ B	X	X
4500-CI ⁻ C-97	4500-CI ⁻ C		X
4500-CI ⁻ D-97	4500-CI ⁻ D	X	X
4500-CI ⁻ E-97	4500-CI ⁻ E		X
4500-NH ₃ B-97	4500-NH ₃ B		X
4500-NH ₃ C-97	4500-NH ₃ C		X
4500-NH ₃ D-97	4500-NH ₃ D		X
4500-NH ₃ E-97	4500-NH ₃ E		X
4500-NH ₃ G-97	4500-NH ₃ G		X
4500-NO ₃ ⁻ H-00	4500-NO ₃ ⁻ H		X
4500-N _{org} B-97	4500-N _{org} B		X
4500-N _{org} C-97	4500-N _{org} C		X
4500-O C-01	4500-O C		X
4500-O G-01	4500-O G		X
4500-S ²⁻ D-00	4500-S ²⁻ D		X
4500-S ²⁻ F-00	4500-S ²⁻ F		X
4500-S ²⁻ G-00	4500-S ²⁻ G		X
4500-SO ₃ ²⁻ B-00	4500-SO ₃ ²⁻ B		X
5210 B-01	5210 B		X
5220 C-97	5220 C		X
5220 D-97	5220 D		X
5310 B-00	5310 B	X	X
5310 C-00	5310 C	X	X
5310 D-00	5310 D	X	X
5520 B-01	5520 B		X
5540 C-00	5540 C	X	X
5910 B-00	5910 B	X	
6200 B-97	6200 B		X
6200 C-97	6200 C		X
6251 B-94	6251 B	X	
6410 B-00	6410 B		X
6420 B-00	6420 B		X
9230 B-93	9230 B		X
9230 C-93	9230 C		X