



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

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Joanne Carpenter
Sr. R&D Chemist
CHEMetrics, Inc.
4295 Catlett Rd.
Calverton, VA 20138

OFFICE OF
WATER

We are pleased to inform you that the Office of Science and Technology's Engineering and Analytical Support Branch and the Office of Ground Water and Drinking Water's Technical Support Center have determined that CHEMetrics Method K-2513 [Revision 1.1, February 2006] for the determination of total and free chlorine in water, is an acceptable version of EPA approved methods. The corresponding EPA methods for measurement of total chlorine residuals and free chlorine residuals in drinking water are listed at 40 CFR part 141. The EPA methods for measurement of total chlorine residuals in wastewater by reaction with N, N-diethyl-p-phenyldiamine sulfate (DPD) followed by spectrophotometric detection (e.g. Standard Method 4500 Cl G) are listed at 40 CFR part 136. Accordingly, CHEMetrics Method K-2513 [Revision 1.1, February 2006] may be used for National Primary Drinking Water Regulations and National Pollutant Discharge Elimination System compliance monitoring. The approved methods and the CHEMetrics method rely on the same chemistry (reaction of oxidants with DPD) to produce a red color; the intensity of which is: (1) dependent upon chlorine concentration and (2) determined photometrically at or near 515nm. The method's range of 0.15 to 5.0 mg/L Cl₂ encompasses drinking water and wastewater regulatory limitations.

We appreciate your interest in the development of environmental monitoring methods. If you have any questions regarding the review of this alternate test procedure (ATP Case No's D04-0021 and N04-0021), please contact Robin Oshiro at oshiro.robin@epa.gov or at 202-566-1075 for wastewater or Steve Wendelken at wendelken.steve@epa.gov or at 513-569-7491 for drinking water.

Sincerely,

Robin K. Oshiro, Ph.D.
ATP Coordinator
Engineering and Analysis Division (4303 T)
Engineering and Analytical Support Branch

Steven C. Wendelken, Ph.D.
ATP Coordinator
Technical Support Center (MS-140)
Office of Ground Water and Drinking Water

cc:
USEPA Regional Administrators (all Regions)

Quality Assurance Managers (all Regions)
ATP Coordinators (all Regions)
Water Management Division Directors (all Regions)
Gregory J. Carroll, USEPA, OGWDW
Danielle Carter, CSC, SCC