



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

JAN 23 2001

Jeffrey J. Christenson
Director of Marketing and Sales
CHEMetrics, Inc.
Route 28
Calverton, Virginia 20138-0214

OFFICE OF
WATER

Dear Mr. Christensen:

We are pleased to inform you that the Analytical Methods Staff has determined that CHEMetrics Method 2001, dated October 2000, for the determination of chemical oxygen demand (COD) is an acceptable version of EPA approved Hach Method 8000 and may be used for National Pollutant Discharge Elimination System compliance monitoring.

We appreciate CHEMetrics, Inc.'s interest in the development of compliance monitoring methods, and your support of these efforts. If you have any questions regarding our review of your application, please contact Khouane Dithavong at 202/260-6115 at your convenience.

Sincerely,

A handwritten signature in black ink, appearing to read "W. A. Telliard".

William A. Telliard, Director
Analytical Methods Staff
Engineering and Analysis Division (4303)

cc: USEPA Regional Administrators (all Regions)
Quality Assurance Managers (all Regions)
Water Management Division Directors (all Regions)
ATP Coordinators (all Regions)
Maria Gomez-Taylor, USEPA, EAD
Khouane Dithavong, USEPA, EAD
James Boiani, DynCorp I&ET, SCC

September 18, 2000

CHEMetrics, Incorporated

**CHEMetrics' COD Vials Product Line - Reagent Composition Equivalency
Vs. USEPA Method 410.4 and Jirka/Carter Micro-Semi Automated Procedure**

(Chem2000: EPA_Equivalency_Observations)

Observations

1. The amounts of chemicals used in the CHEMetrics test, except for the potassium dichromate, are equivalent to those used in the USEPA Method 410.4.
2. Sample size requirements is smaller than that called for in the Jirka/Carter procedure for the auto-analyzer.
3. When normalized for sample size, CHEMetrics mercuric sulfate and silver sulfate concentrations are identical to those on the USEPA 410.4 method.
4. When the potassium dichromate solution is normalized for the 0-900 ppm USEPA 410.4 Method range, the amount of CHEMetrics dichromate is statistically equivalent (0.007 gm/mL) to the USEPA 410.4 Method amount (0.006 gm/mL) cited for both the manual and the auto-analyzer procedures.
5. The analytical wavelength used to obtain final test results following COD digestion of 620 nm was chosen to take advantage of the wider dynamic test range of this reagent. This is not a requirement for the analyst. If needed test results could be obtained using the USEPA 410.4 method recommended analytical wavelength.