



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

MAY - 8 2006

Lynn Egan  
Applications Chemist  
Lachat Instruments  
P.O. Box 389, Mail Stop #1  
Loveland, CO 80539-0389

OFFICE OF  
WATER

Dear Ms. Egan:

The Engineering and Analytical Support Branch (EASB) and the Office of Ground Water and Drinking Water's Technical Support Center (OGWDW/TSC) have completed technical review of the materials submitted in support of the following applications for approval as alternate test procedures (ATPs) for use in wastewater and drinking water compliance monitoring.

QuikChem Method Number [Revision Date]	Analyte	ATP Case No's. (drinking water, wastewater)
10-115-01-1-P [10/19/2005]	Orthophosphate	D96-0014, N96-0022
10-115-01-1-Q [11/20/2005]	Orthophosphate	D03-0013, N03-0013
10-115-01-1-T [10/19/2005]	Orthophosphate	D03-0014, N03-0014
10-115-01-1-M [11/15/2005]	Orthophosphate	D03-0032, N03-0032

We are pleased to inform you that in the judgement of our technical staff the above methods are acceptable versions of EPA Method 365.1 for the determination of orthophosphate in drinking water and wastewater and may be used for compliance monitoring under National Primary Drinking Water Regulations (NPDWRs) and the National Pollutant Discharge Elimination System (NPDES). The QuikChem methods listed above and EPA Method 365.1 employ the same chemistry to determine orthophosphate: reaction of ammonium molybdate and antimony potassium tartrate with orthophosphate in an acid medium to form an antimony-phospho-molybdate complex that is reduced by ascorbic acid to an intensely blue colored complex, the intensity of which is directly proportional to the orthophosphate concentration.

We appreciate your interest in the development of environmental monitoring methods. If you have any questions regarding the review of these alternate test procedures, please contact Robin Oshiro at [oshiro.robin@epa.gov](mailto:oshiro.robin@epa.gov) or at 202-566-1075 for wastewater or Steve Wendelken at [wendelken.steve@epa.gov](mailto: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