



Methods of Analysis by the U.S. Geological Survey: Usgs Open-File Report 2000-170

By Charles J Patton, Earl P Truitt

Bibliogov, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.The National Water Quality Laboratory (NWQL) determined ammonium plus organic nitrogen (Kjeldahl nitrogen) by using semiautomated, block digester methods for filtered and whole-water samples from 1986 until October 1, 1991. During that time, phosphorus was determined by a persulfate digestion method. In 1991, projected increases in demand for both tests by the U.S. Geological Survey's National Water-Quality Assessment Program led the NWQL to develop and validate methods for determining both analytes in a common digest. This report describes a rapid and accurate method to determine Kjeldahl nitrogen. The batch, high-temperature (block digester), Hg (II)-catalyzed digestion step used in the new methods I-2515-91/4515-91 is similar to U.S. Geological Survey methods I-2552-85/4552-85 and U.S. Environmental Protection Agency method 351.2 except that sample and reagent volumes are halved. Prepared digests are desolvated at 220 degrees Celsius (oC) and digested at 370oC in separate block digesters set at these temperatures, rather than in a single, temperatureprogrammed block digester. This approach permits 40 calibrants, reference materials, and samples to be digested and resolved in about an hour. Ammonium ions originally present in...



READ ONLINE
[3.86 MB]

Reviews

A fresh eBook with a brand new standpoint. It can be rally exciting throug looking at period of time. I am delighted to inform you that this is the greatest book i have read through during my individual existence and may be he very best publication for ever.

-- **Era Thompson**

Comprehensive manual! Its this sort of excellent read through. We have read through and i also am certain that i will going to read through once more again later on. You wont sense monotony at at any time of your time (that's what catalogs are for regarding in the event you question me).

-- **Prof. Geraldine Monahan**