

INTRODUCTION

Thanks to a generous grant obtained by the Vermont Department of Environmental Conservation Wastewater Management Program and administered through the Vermont Rural Water Association we are able to bring you an update of the State Wastewater Laboratory Manual last updated in 1996. It is hoped that this manual will assist Vermont wastewater operators in understanding and properly performing NPDES required analyses at their facilities. There have been many changes in the analytes of interest as well as the technology available for analysis of those parameters.

We have attempted to maintain the basic style of the original manual to minimize confusion. One major difference you will notice is the addition of links to some methods, equipment, and procedures. These links are specific to those methods and are subject to change in the future. New links can be established by searching the topic or company included in the link if necessary.

The Department of Environmental Conservation would like to express its great appreciation for the valuable help and support given by the Vermont Rural Water Association, specifically Elizabeth Walker, who was extremely helpful from start to finish in this manual update. Thanks also to the Green Mountain Water Associations Laboratory Standards Committee and especially the chair of that committee, Jennifer Garrison, for her much-appreciated editing prowess and to committee members (and WWTF operators) Lucas Harrington and Josh Kemp for reading the drafts and adding their valuable comments. Another major contributor to the success of this update was Dr. Amy Polaczyk of the Wastewater Management Program. Her insightful edits and useful additions to the manual were extremely valuable.

We also thank all of the sources of information who allowed us to use their material. Those contributors include American Public Health Association®, American Water Works Association®, and Water Environment Federation for use of the 23rd Edition “Standard Methods For The Examination of Water and Wastewater”, California State University, Sacramento Foundation for permission to use information from “Operation of Wastewater Treatment Plants” 7th Edition, and The Hanna® Company, Hach® Company, YSI®, and Idexx® for their valuable assistance and for allowing us to include links to their informational sites.