INSTRUCTOR’S OUTLINE
FOR WATER QUALITY STUDIES

This Instructor’s Outline and the step-by-step instructions for the students are provided so that the instructor-student team can perform the laboratory experiments with confidence and success.

INTRODUCTION

The text A Study of Water Quality (1532) by Dr. Charles E. Renn, Professor of Environmental Engineering Science, Johns Hopkins University, and an authority on waste water disposal and industrial pollution treatment procedures, with special interest in the biological processes affecting water, has been prepared especially for use with this series of demonstrations. This handbook provides the “why” of this series of water quality studies; the enclosed instructions provide the “how”. The research staff of LaMotte Company is available for consultation with instructors confronted with unusual problems in water quality studies.

INSTRUCTIONS

The instructions for making the analysis are given in step-by-step form. It is recommended that the instructor run a complete experiment prior to class to determine how much time should be allowed for the various stages of the exercise. Usually a class can complete the actual tests in 10 to 20 minutes, but the time period will vary depending upon the aptitude of the class, amount of introductory instructions, etc. The pre-classroom trial also permits the instructor to prepare pertinent notes and comments for the students as they go through the exercises, and to anticipate some possible questions that may occur to the students. Permission to reproduce the LaMotte Reagent System instructions is granted to any institution of learning that is using demonstration or test materials provided by LaMotte Company.
WATER SAMPLES

Water samples are supplied with the standard reagent system units. These samples are prepared to give the specific reaction in the demonstration which will serve best to provide the students with an example of the test or treatment. Additional water samples can be provided by the instructor, or may be obtained by the students. The instructions for collecting the samples for analysis and treatment are given on page 43 of A Study of Water Quality. When students are collecting their own water samples, sufficient time should be allowed prior to classroom analysis.
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