

12/10/12

DEPARTMENT OF CIVIL ENGINEERING
NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI – 620 015.
CE704 - Environmental Quality Measurements Laboratory
Experiment 11 (a): Determination of Total Solids

AIM

To determine the total solids present in the given sample.

PRINCIPLE

Total solids are determined as the residue left after evaporation and drying of the unfiltered sample.

APPARATUS REQUIRED

1. Evaporating dishes
2. Water bath / Oven
3. Desiccators
4. Weighing balance

PROCEDURE

1. Wash & wipe the evaporating dish (Porcelain dish) and dry it in a hot air oven for dryness.
2. Measure the initial weights of dishes by using electronic balance (W_1).
3. Take 10 ml of *unfiltered sample* in a china dish and evaporate in a water bath / oven at 103°C to 105°C .
4. Cool the container to dryness in a dessicator and weigh the dishes again.
5. Note the increase in weight (W_2).

CALCULATION

Initial weight of the container W_1
 Final weight of the container W_2
 Weight of residue

$$\begin{aligned}
 & 28430.2 \text{ mg} \\
 & = \dots\dots\dots \text{g} \\
 & = \dots\dots\dots \text{g} \quad 28579.5 \text{ mg} \\
 & = W_2 - W_1 \text{ g} = 1493 \text{ mg} = 0.1493 \text{ g}
 \end{aligned}$$

$$\begin{aligned}
 \text{Amount of total solids present in the sample} &= \frac{(W_2 - W_1) \times 1000}{\text{Volume of sample taken (mL)}} \times 1000 \\
 &= \dots\dots\dots \text{mg/lit} \quad \frac{0.1493 \times 1000 \times 1000}{10} = \\
 & \quad \underline{14930}
 \end{aligned}$$

APPLICATION OF TOTAL SOLIDS DATA IN ENVIRONMENTAL ENGINEERING PRACTICE

1. Total solids determination is used to assess the suitability of potential supply of water for various uses. In cases, in which waster softening is needed, the type of softening procedure used may be dictated by the total solid content.

Civil Engineering Lab Manual For Environmental Engineering

**National Science Foundation (U.S.).
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Lab Manual for Environmental Engineering Baranitharan B, 2016-08-12 This manual introduces the application of basic chemistry and chemical calculations to measure physical chemical and bacteriological parameters like turbidity and colour dissolved oxygen hardness pH alkalinity organic content Sulphates Fluorides Iron Total Settle able solids chloride Suspended and Dissolved Solids Ammonical Nitrogen Bacteriological Analysis chemical and biochemical oxygen demand of water and wastewater Laboratory methods and interpretation of results with regard to environmental engineering applications such as design and operation of water and wastewater treatment processes and to the control of the quality of natural waters are also explored As a result of these tests various remedies can be suggested to reduce the environmental pollution The purpose of this laboratory manual is to make the people aware of the dangerous effects of environmental pollution

Environmental and Hydraulic Engineering Laboratory Manual Gang Chen, Simeng Youneng, 2017-08 This laboratory manual is comprised of 14 laboratory experiments covering topics of water quality water treatment groundwater hydrology liquid static force pipe flow and open channel flow These experiments are organized with a very logical flow to cover the related topics of environmental and hydraulics engineering within university level courses This state of the art manual is divided into two sections environmental engineering experiments and hydraulic engineering experiments with seven experiments for each section It provides the basic hands on training for junior year civil and environmental engineering students In each experiment fundamental theories in the topic area are revisited and mathematic equations are presented to guide practical applications of these theories Tables figures graphs and schematic illustrations are incorporated into the context to give a better understanding of concept development experimental design and data collection and recording Each experiment ends with discussion topics and questions to help students better understand the content of the experiment This manual mainly serves as a textbook for an environmental and hydraulics engineering laboratory course Professionals and water wastewater treatment plant managers may also find this manual of value for their daily jobs In addition students in related areas can use this manual as a reference and the general public may use it to educate themselves on water quality testing and water flow

Environmental Engineering Laboratory Manual Robert L. Sanks, Montana State University (Bozeman, Mont.). Department of Civil Engineering and Engineering Mechanics, 1974

Environmental Engineering Lab Manual M. A. Karim, 2014-08-01

Environmental Engineering Laboratory Manual for First Year Engineering Students (common to All Branches) R. C. Gaur, 2008

Geotechnical Engineering William A. Kitch, 2011-08-08

Laboratory Experiments in Trace Environmental Quantitative Analysis Paul R. Loconto, 2022-04-12

Laboratory Experiments in Trace Environmental Quantitative Analysis is a collection of student tested experiments that introduce important principles that underlie various laboratory techniques in the field of trace environmental organics and inorganics quantitative analysis It crosses the more traditional academic disciplines of environmental science and analytical

chemistry The text is organized to begin with minimally rigorous session experiments and increase in rigor as each session experiment unfolds Each experiment features learning objectives expected student outcomes and suggestions for further study Additional features include Students are introduced to the principles and laboratory practice of instrumental analysis determinative techniques that are clearly presented Students are carefully taken through various ways to prepare samples for trace quantitative analysis sample prep techniques Safety warnings are listed within each experiment Students are introduced to all three types of instrument calibration external internal and standard addition Instructors who are responsible for laboratory courses in analytical chemistry with potential application to environmental sample matrices will find this textbook of value Graduate programs in environmental science and engineering will also greatly benefit from the content

Environmental Science and Engineering Laboratory Manual Daniel Meeroff,2013-04-16 **Introduction To Environmental Engineering** Taha Marhaba,2008-01-30 A Guide to Undergraduate Science Course and Laboratory Improvements National Science Foundation (U.S.). Directorate for Science Education,1979 **Compendium of Contributions** American Society for Engineering Education. Committee for Laboratory Oriented Studies and Experimentation,1977 **Environmental Engineering Laboratory Manual** B Barani Tharan Balamurali S,Barani Balamurali,2016-08-04 This manual introduces the application of basic chemistry and chemical calculations to measure physical chemical and bacteriological parameters like turbidity and colour dissolved oxygen hardness pH alkalinity organic content Sulphates Fluorides Iron Total Settle able solids chloride Suspended and Dissolved Solids Ammonical Nitrogen Bacteriological Analysis chemical and biochemical oxygen demand of water and wastewater Laboratory methods and interpretation of results with regard to environmental engineering applications such as design and operation of water and wastewater treatment processes and to the control of the quality of natural waters are also explored As a result of these tests various remedies can be suggested to reduce the environmental pollution The purpose of this laboratory manual is to make the people aware of the dangerous effects of environmental pollution U.S. Government Research Reports ,1964

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wind powered desalination energy storage and optimization Includes case studies of recent desalination projects and process design **Technical Abstract Bulletin** ,1964 EPA Publications Bibliography United States. Environmental Protection Agency,1987 **EIT Industrial Review** Donovan Young,2003-09-18 This guide is written for the afternoon FE EIT Industrial Exam and reviews each topic with numerous example problems and complete step by step solutions End of chapter problems with solutions and a complete sample exam with solutions are provided Topics covered Production Planning and Scheduling Engineering Economics Engineering Statistics Statistical Quality Control Manufacturing Processes Mathematical Optimization and Modeling Simulation Facility Design and Location Work Performance and Methods Manufacturing Systems Design Industrial Ergonomics Industrial Cost Analysis Material Handling System Design Total Quality Management Computer Computations and Modeling Queuing Theory and Modeling Design of Industrial Experiments Industrial Management Information System Design Productivity Measurement and Management 101 problems with complete solutions SI Units Lab Manuals ,2022-12-28 This laboratory manual is designed to acquaint the student with essential civil engineering experimentation works and various tests to be carried out on and offsite which is required by every civil engineer when he or she enters in a professional set up This lab manual covers various subjects like Mechanics of Solids in which compressive flexure and tensile strength testing is done Engineering Geology where geological properties important from civil engineering point of view are studied Building Material and Concrete Technology lab where testing of material is done Fluid Mechanics lab which is designed to examine the types and various parameters of fluid flow Applied Hydraulics lab where students study on the models of hydraulic machinery Surveying lab where students get to know about field surveying like chain and compass survey Theodolite Survey and Total Station Survey Transportation lab where bitumen and testing of aggregates used for road work construction is done Geotechnical lab where properties and the strength parameters of the soil are studied Environmental lab where the quality of water and waste water is checked various tests on solid waste samples are done and noise levels at various places are checked Each experiment starts with objectives to be achieved the experimental set up and the materials that are needed to perform the experiment and a stepwise procedure for conducting the experiment and a set of MCQ s at the end The students will note down their observations measurements and or calculations on the Results Sheets provided at the end of the experiment **Selected Water Resources Abstracts** ,1991 **Scientific and Technical Aerospace Reports** ,1981

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