

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

$$\begin{aligned} &= 284.30 \text{ g} \\ &= \dots \text{ g} \\ &= 28.5795 \text{ mg} \\ &= W_2 - W_1 \text{ g} = 149.3 \text{ mg} = 0.1493 \text{ g} \end{aligned}$$

Amount of total solids present in the sample = $\frac{(W_2 - W_1) * 1000}{\text{Volume of sample taken (mL)}} * 1000$

$$= \frac{0.1493 * 1000 * 1000}{10} = 14930 \text{ mg/lit}$$

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 water softening is needed, the type of softening procedure used may be dictated by the total solid content.

Environment Civil Engineering Lab Manual

**Robert L. Sanks, Montana State
University (Bozeman, Mont.).
Department of Civil Engineering and
Engineering Mechanics**

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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

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