

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

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