

METHOD STATEMENT



Determinand:

Determination of the concentration of particulate matter under the prescribed empirical conditions of the settling test and sub-sampling for the determination of non-settleable COD, BOD and suspended solids

Matrix:

Sample Type: Industrial effluents, sewage samples and other related samples

Principle of Method:

The sample is first neutralised then settled to provide a sub-sample for analysis. Some clients request a non-neutralised settle in which case the sample is only settled. A five minute settle can also be requested where the sample is again not neutralised and only allowed to settle for five minutes. Settleable solids are determined by subtracting the concentration of solids left in suspension after a one hour defined settlement test, (the particulate non-settleable solids) from the concentration of total suspended solid content of the sample. This determination is usually carried out in order to assess the charge to be levied on industrial effluent discharges to sewer. The settled sample can also be analysed for COD and BOD

Interferences:

N/A

Performance of Method:

Performance criteria will vary according to the nature of the sample. Details for the gravimetric determination of the suspended solids are given in the method for the determination of suspended solids (WWC 21). Performance characteristics for BOD and COD determination are given in the analytical methods (WWC 11 and WWC 13 respectively).

References:

Methods for the Examination of Waters and Associated Materials HMSO, Suspended, Settleable, and Total Dissolved Solids in Waters and Effluents 1980, ISBN 0 11 751957 X
Yorkshire Water Methods of Analysis 1988 5th Edition, ISBN 0 905057 23 6

