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SDI - Silt Density Index - TEST

Tested material: Nature Works Hi-Tech Glass filter Media

Test location: Appolo Nursing College

Ayanambakkam Rd Chennai, Tamil Nadu, India

Test Conditions:

- Filtration flow: 300 lph
- Filtration velocity 10m3/hr/m2
- Kind of filter FRP
- Height of media inside the filter: 60 % filling
- Quantity of media: 60 kgs
- Vessel size 8" diameter x 44" height on straight

SDI RESULTS:

Morning inlet SDI without backwash- 5.46 Evening outlet SDI without backwash- 2.74



PROCEDURES:

Calculations SDI = P30 / Tt = 100 * (1 - Ti / Tf) / Tt

where SDI = Silt Density Index

P30 = % plug gage at 30 psi feed pressure**

Tt = Total test time in minutes (usually 15 minutes, but may be less if 75% pluggage** occurs in less than 15 minutes).

Ti = initial time in seconds required to obtain sample.

Tf = time required to obtain sample after 15 minutes (or less).

Person in charge of the test:

Sign / stamp

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