
Alabama Grade IV Water Operator Study Guide, Coagulation, Adsorption & Corrosion, Chemical Symbols

UFRV Correct Answer: Unit Filter Rate Volume

How can you remove truecolor? Correct Answer: Coagulation & Chlorination

Synura Correct Answer: Cucumber Smell

Normality Correct Answer: Equivalents of solute per liter of solution

Asterionella, Pandorina, Uroglenopsis can have what smell? Correct Answer: Fishy Smell

What smell can Anabaena and Anacystis have? Correct Answer: Musty Pig-Pen Smell

A centrifugal pump works correctly for a period of time but begins to lose suction. What is the problem? Correct Answer: Faulty Foot Valve

What is the effect of pH on chlorine disinfection? Correct Answer: The best disinfection occurs at lower pH. If you have high alkalinity and high pH (>8) consider longer chlorine contact time due to reduced efficiency of the hypochlorite form.

Drawdown Correct Answer: The lowering of the surface elevation of a body of water, the water table, the piezometric surface, or the water surface of a well, as a result of the withdrawal of water.

The process where Quicklime must be mixed with water. Correct Answer: Slaking - Slaked lime is calcium hydroxide. $\text{Ca}(\text{OH})_2$

Why is weir balance important? Correct Answer: For uniform flow of water.

What do you do if floc is carrying over? Correct Answer: Adjust the alum dose.

What would happen if you added water to a chlorine leak? Correct Answer: The leak would get worse.

How do you open a high pressure valve? Correct Answer: Very slowly

A measure of a solution's ability to dissolve or deposit calcium carbonate often used as an indicator of the corrosivity of water the difference between actual pH(measured) and calculated pH. Correct Answer: Langelier Saturation Index

What hardness is most difficult to remove? Correct Answer: Magnesium Noncarbonated

Chemical Operator Study Guide

Ying Liu



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