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Biological treatment processes in wetland systems depend on supplying colonies of micro-organisms with optimum quantities of air and nutrients to achieve the same reactions that occur in natural self-purification processes, at a maximum benefit to cost ratio. The three changes that occur during self-purification include coagulation of colloidal solids passing through the primary sedimentation stage; oxidation of carbon, hydrogen, nitrogen, and phosphorus; and nitrification.

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Biological wastewater treatment often is used as a secondary treatment process to remove material remaining after primary treatment with processes including dissolved air flotation (DAF). In the primary water treatment process, sediments and substances such as oil are removed from the wastewater. Aerobic Wastewater Treatment

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