ORIGIN, CAUSES, AND APPROACH MODELING OF THE INTRUSION PARASITIC WATER IN THE COLLECTORS OF CLEANSING.

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Abstract:

Through the bibliography, it was noticed that the dimensioning of the collectors of cleansing (unified or separative); generally, disregarded intrusion of parasitic water. This intrusion is dependent on the characteristics of the ground, the groundwater and the state of the collectors. These parasitic waters are often residing in the center of the problems which daily worry the managers of the systems of cleansing, and more particularly the stations of- purification. The random quantitative aspect of this water often modifies the characteristics of the flows and often obliges the researchers to re-examine the simplifying assumptions of the mechanist models governing the flows in the collectors. In this context, our work consists initially to present the causes and origins of this water and to propose thereafter a mathematical approach of quantitative determination of the flow of intrusion.

Key words: parasitic water; collector;cleansing.