

Chapter 13 Artificial Recharge of GW

To increase the natural supply of gw

Augmenting the natural movement of surface water into underground formations.

13.1 Concept

Purposes (1-8)

13.2 Recharge methods

Fig. 13.1.1

Fig. 13.2.1

Recharge rate

13.3 Waste water recharge for reuse

Water quality range Table 13.3.1

Recharge methods

13.4 Soil Aquifer treatment (SAT) systems

Artificial recharge of sewage effluent

Fig 13.4.2

Fig 13.4.3

Operation

Modeling

13.5 Recharge **Mounds**

Sample 13.5.3

Hantush equation

13.6 Storm water infiltration basin mound development

Potential flow model

13.7 Innovative Approaches

New Jersey case

13.8 Induced Recharge

Fig 13.8.1

(technical issues (clog), environmental, financial)

Home work

How to recharge through well and basin ?