Situation

Today, water is being used at a rate twice the rate of the population increase. The sources of water commonly used today is groundwater and seawater. Groundwater is being depleted causing many countries to suffer of high stress levels in groundwater depletion example the UAE, India, and Saudi Arabia.



Problems

- Groundwater is being depleted at a rate faster than it's recharge period which can take infinite number of years.
- Two types of groundwater is there; Surface groundwater which is used because its not very contaminated and Subsurface groundwater
- The subsurface underground water that is left can be severely contaminated with heavy metals, chemical, solids and organic compounds
- This underground water is treated using Chlorination or Ozonation
- Chlorination is an effective way to treat groundwater by it can produce hazardous by-products that can be carcinogenic
- Ozonation is used to treat water used in swimming pools and Aquariums
- It uses Ozone gas generated using UV Lambs which can be bulky, requires maintenance every 9 months





water:

- 6) PVC is used as an ozone resistant material for the reactor

2016].

induced-infiltration-and-artificial-recharge.aspx. [Accessed: 05- Nov-