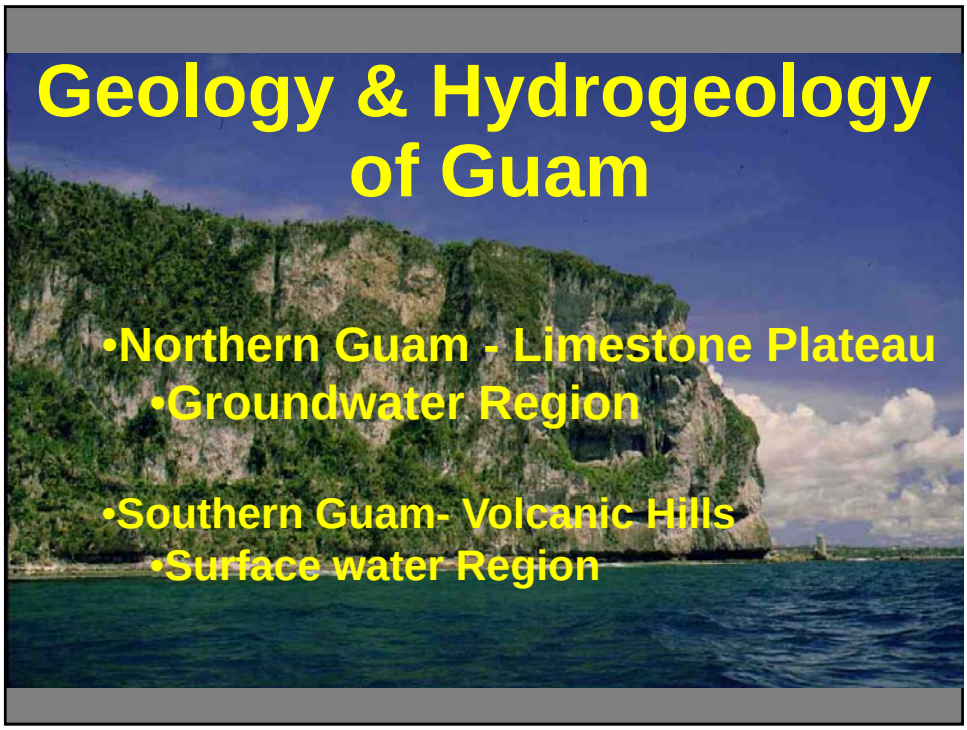
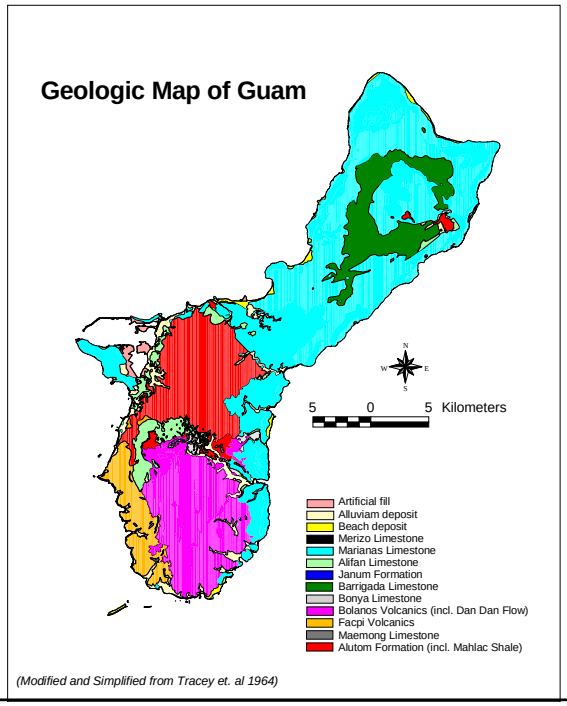
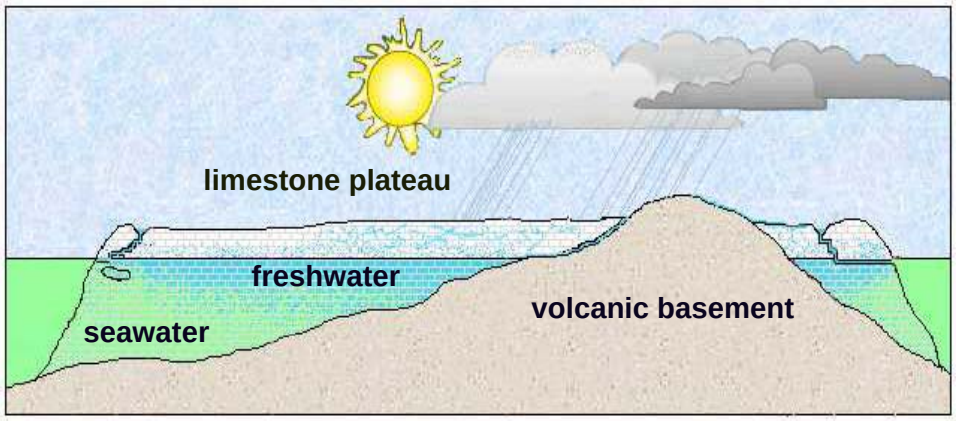
Freshwater
Resources of Guam


Geology & Hydrogeology
of Guam
•Northern Guam - Limestone Plateau
•Groundwater Region
•Southern Guam- Volcanic Hills
•Surface water Region

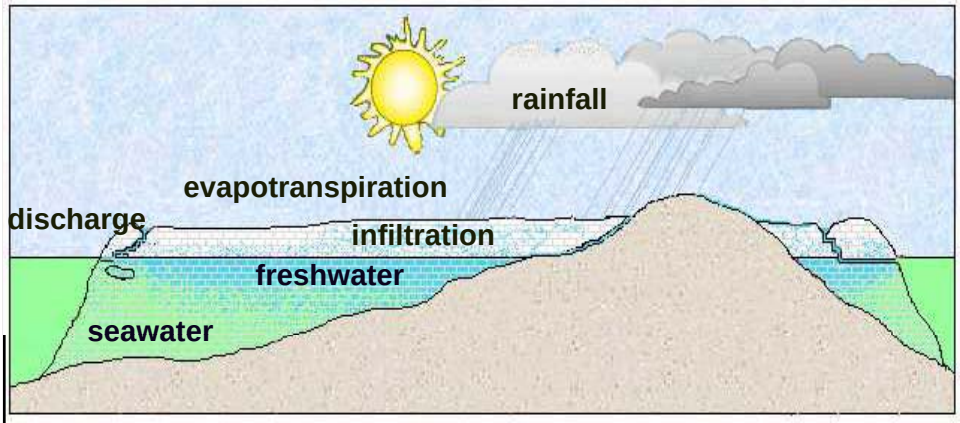

Geologic Map of Guam
N
W
E
S
5 0 5 Kilometers
Artificial fill
Alluviam deposit
Beach deposit
Merizo Limestone
Marianas Limestone
Alifan Limestone
Janum Formation
Barrigada Limestone
Bonya Limestone
Bolanos Volcanics (incl. Dan Dan Flow)
Facpi Volcanics
Maemong Limestone
Alutom Formation (incl. Mahlac Shale)
(Modified and Simplified from Tracey et. al 1964)

coral picture

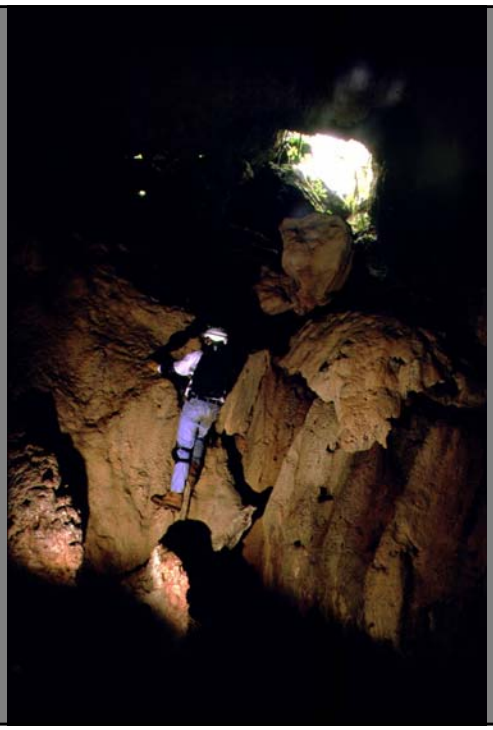
lens cross section

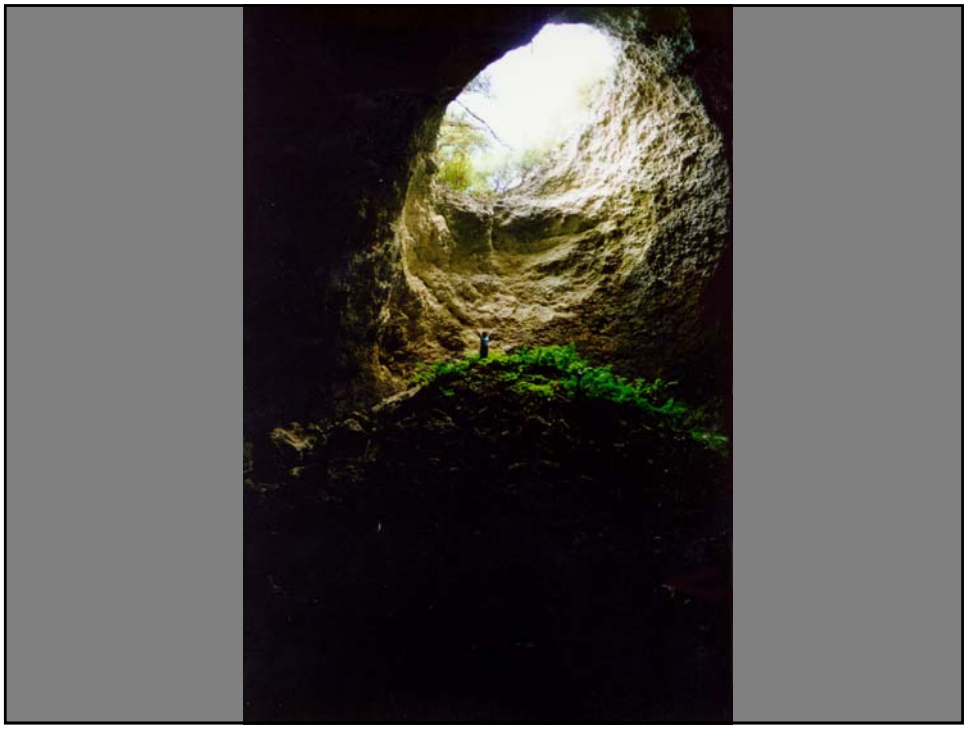


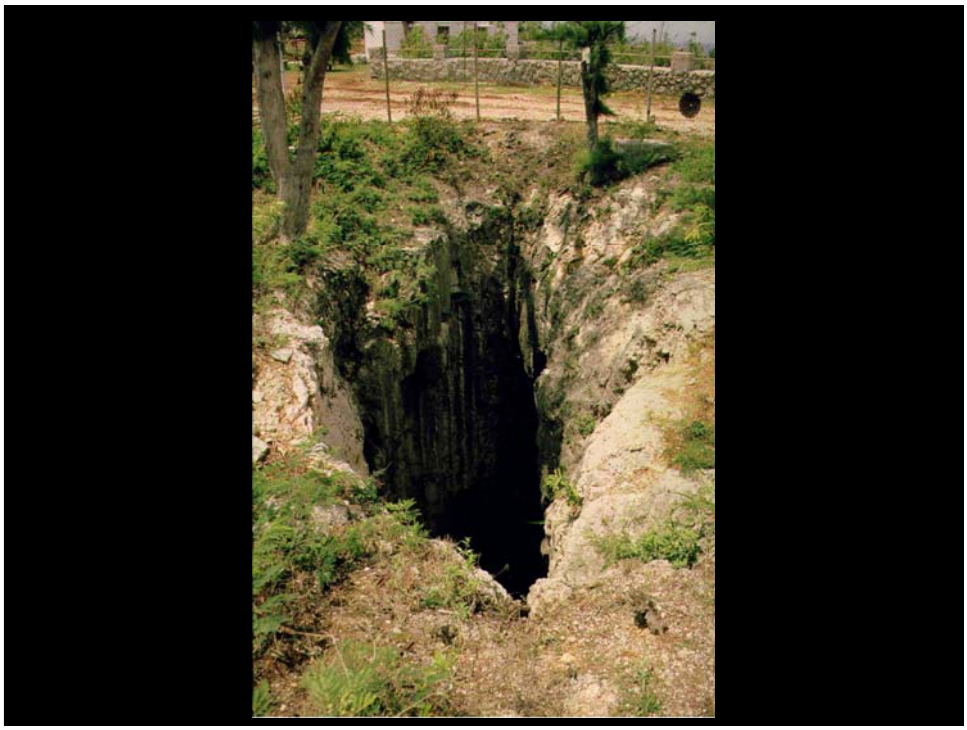
hydrologic cycle

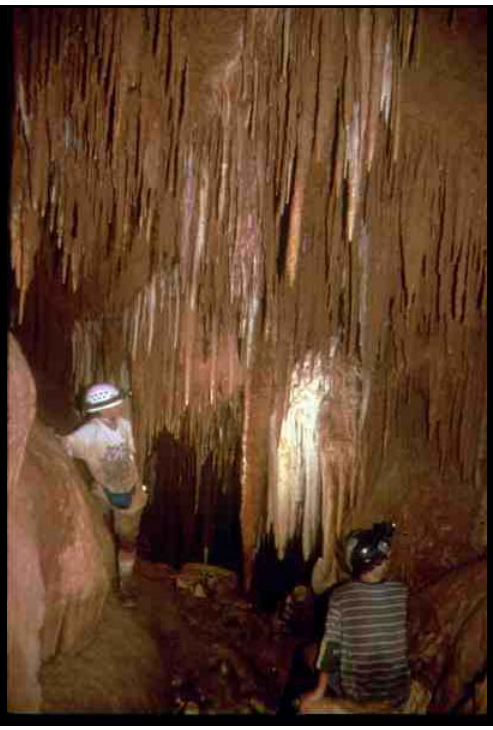


Water Pathways



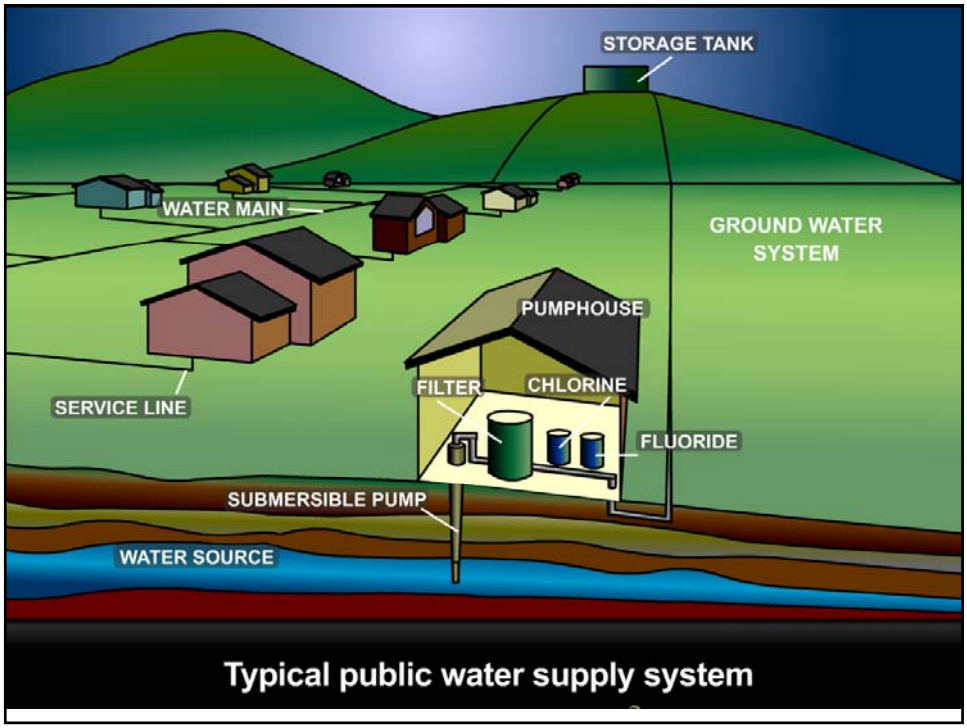




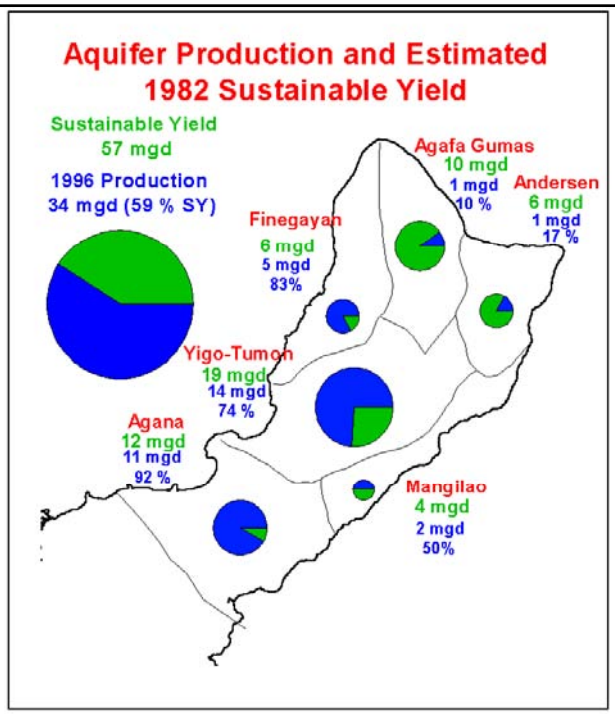


Drilling for Water

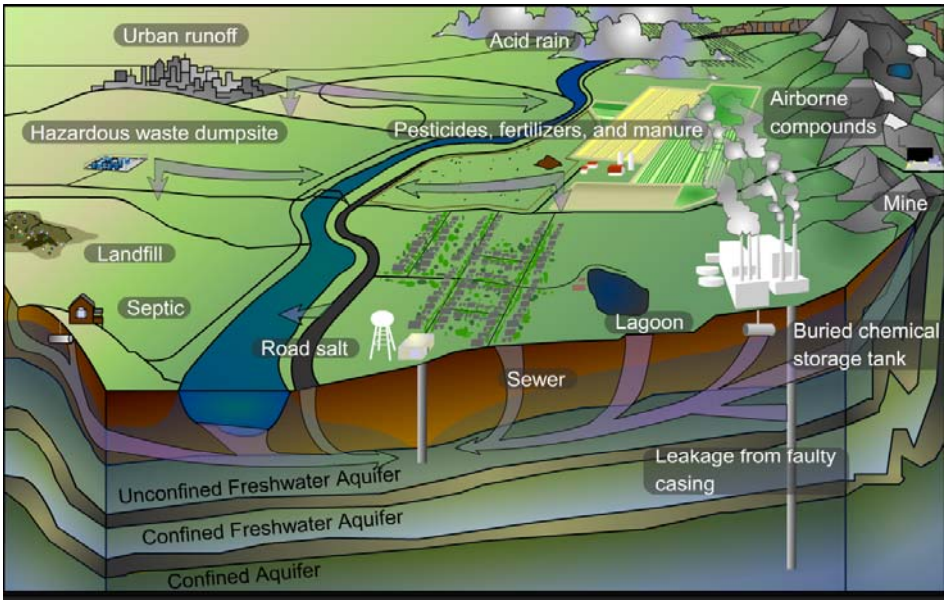
Y-10



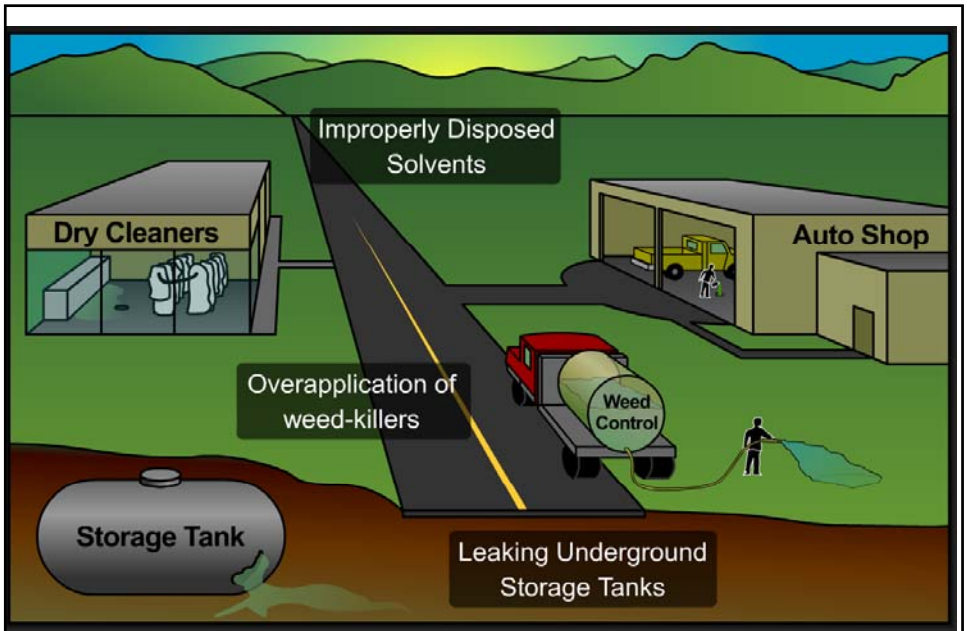
Typical public water supply system



Pollution Sources



Ground water contamination



Common chemical contaminants

• Increase in operations cost
• Plant shutdown
• Loss of service
• Lowers reservoir capasity

The Bottom Line