# An Introduction to Groundwater Issues at Mine Sites

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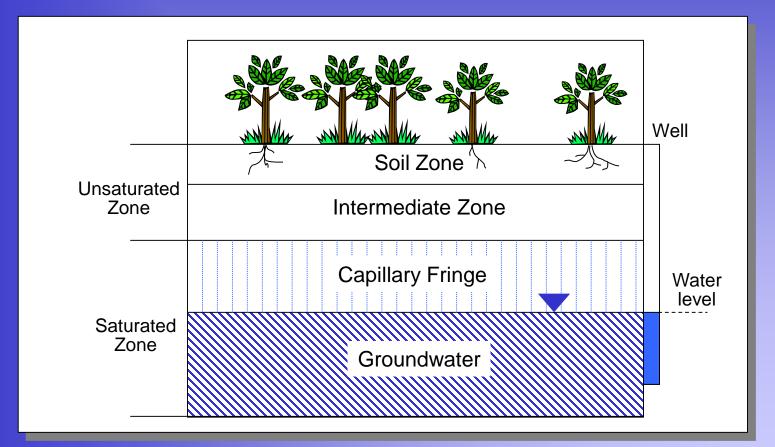
#### Topic 3: The Water Table and Associated Concepts





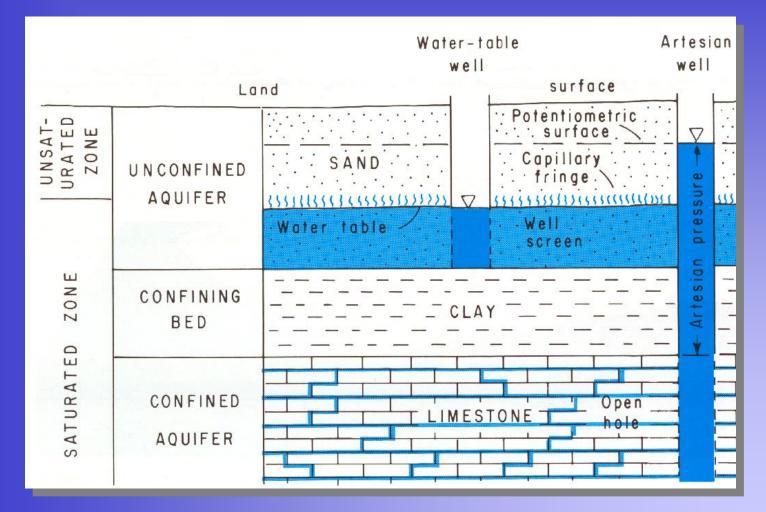
#### The Water Table

The Water Table: The surface where pressure = atmospheric



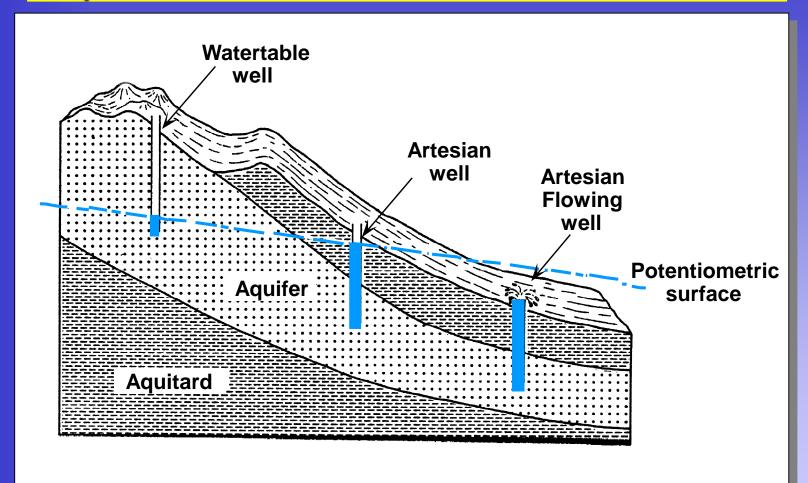


#### **Aquifers: Unconfined vs. Confined**



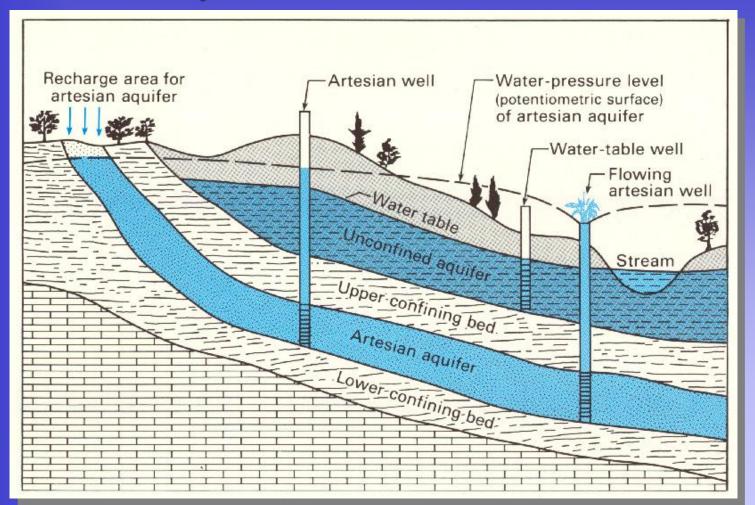


#### **Aquifers: Unconfined vs. Confined**





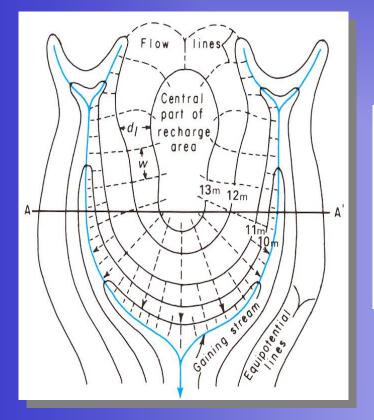
# Aquifers: Overview

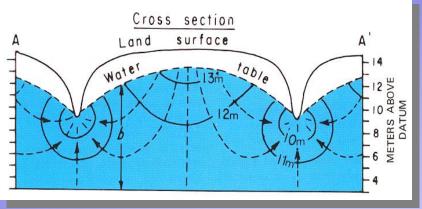




# **Flow Direction**

# Recharge areas Discharge areas



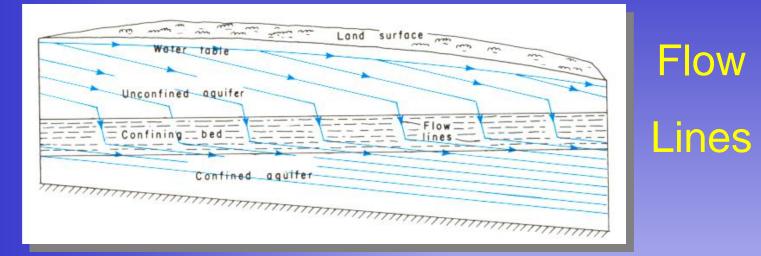


**Cross Section** 

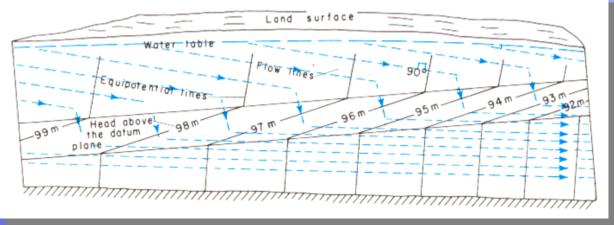
Plan View



### Flow in Stratified Systems

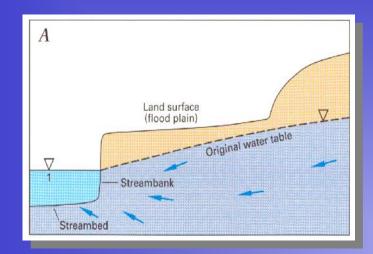


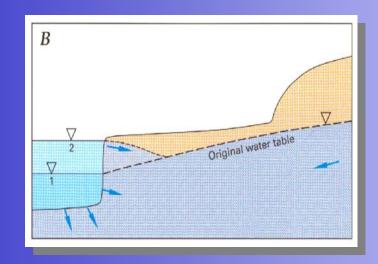


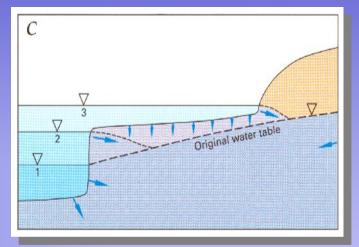




#### Effects of Changing Water Levels on Flow Direction

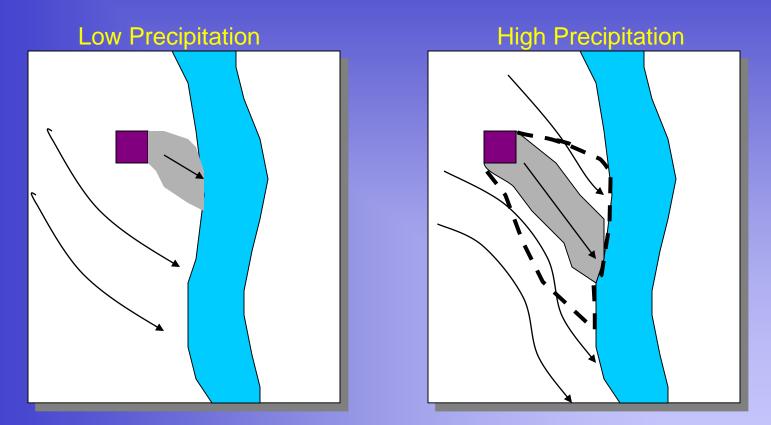








#### **Seasonal Effects on Flow Direction**



**Contamination can spread over wider areas** 

