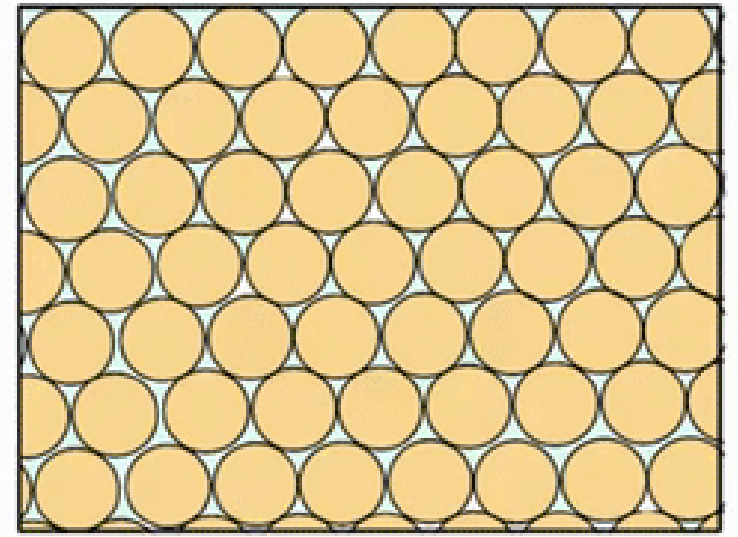
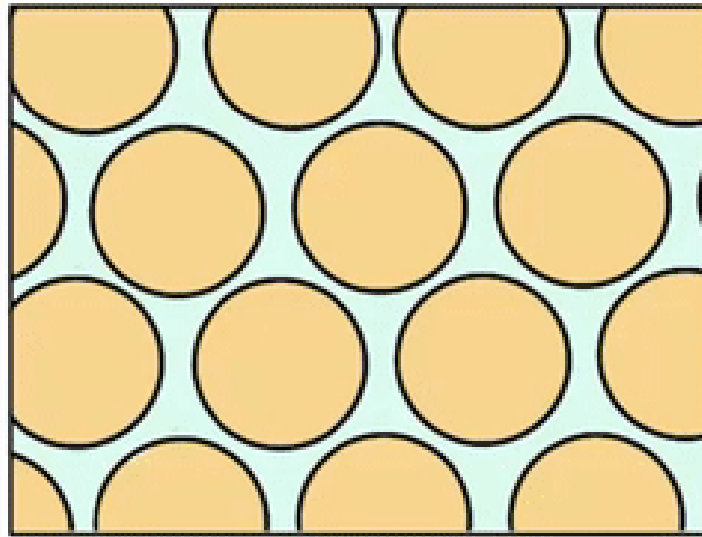
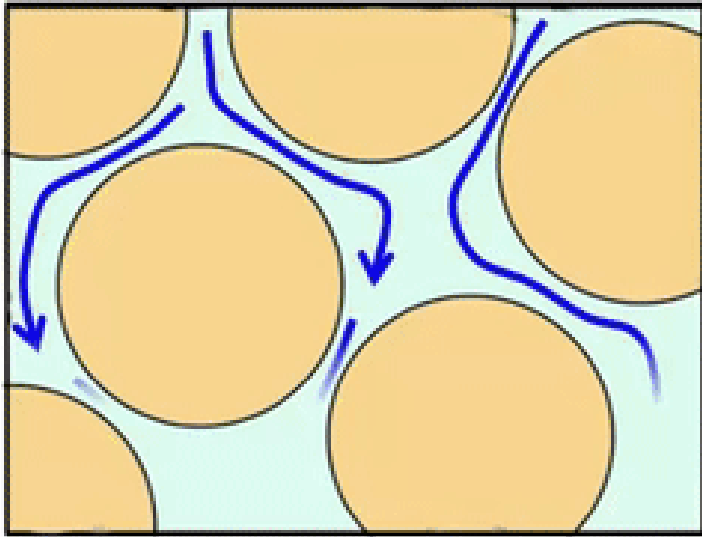
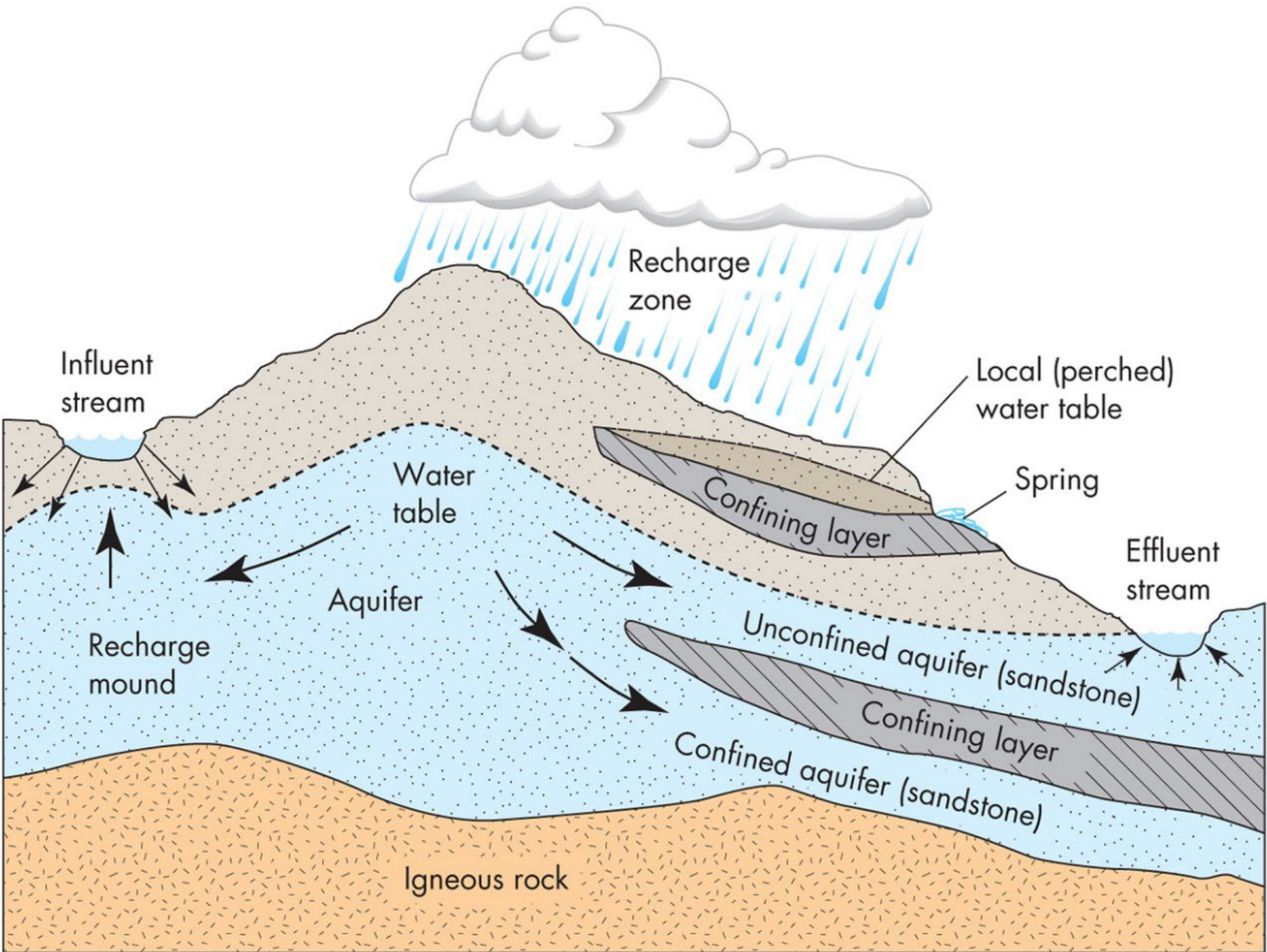


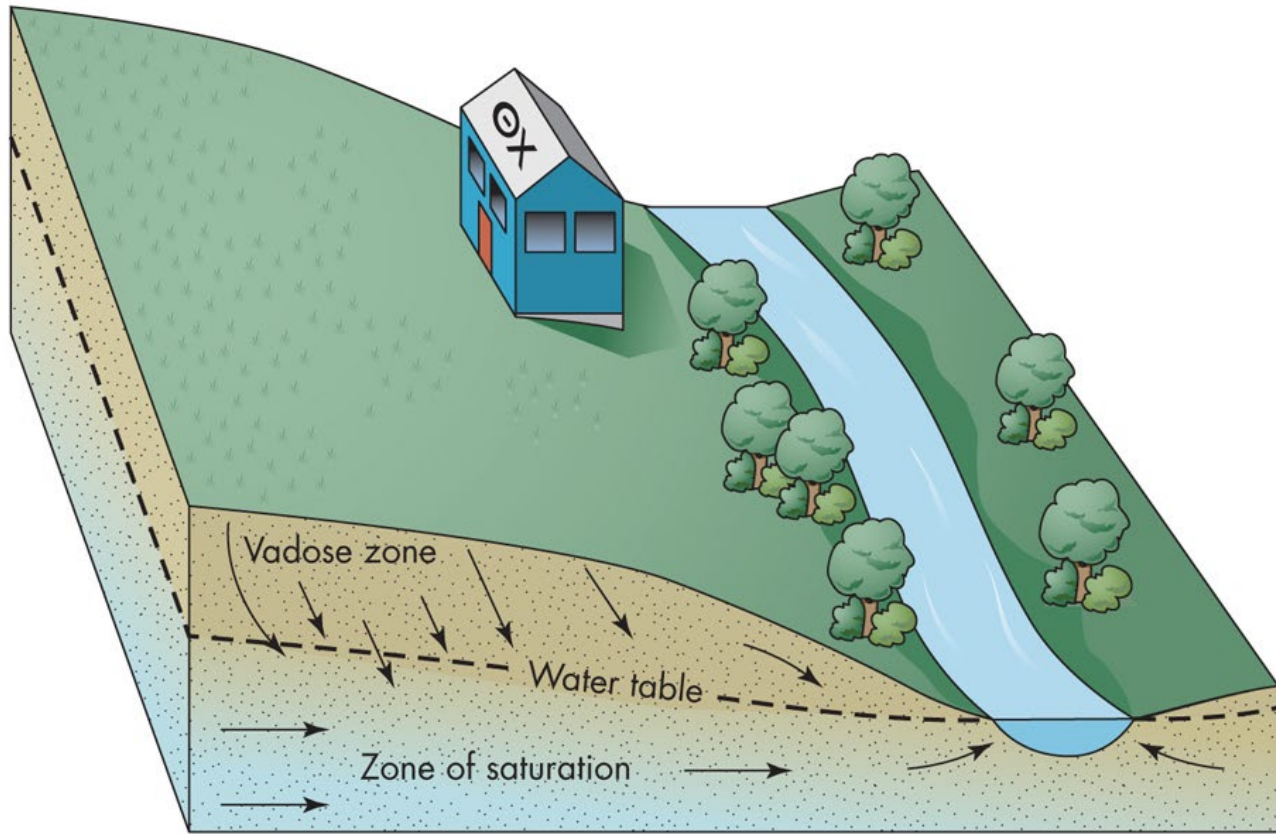
Holes in Earth Materials

Permeability is the capacity of water to flow through earth materials




Rock types and porosity permeability



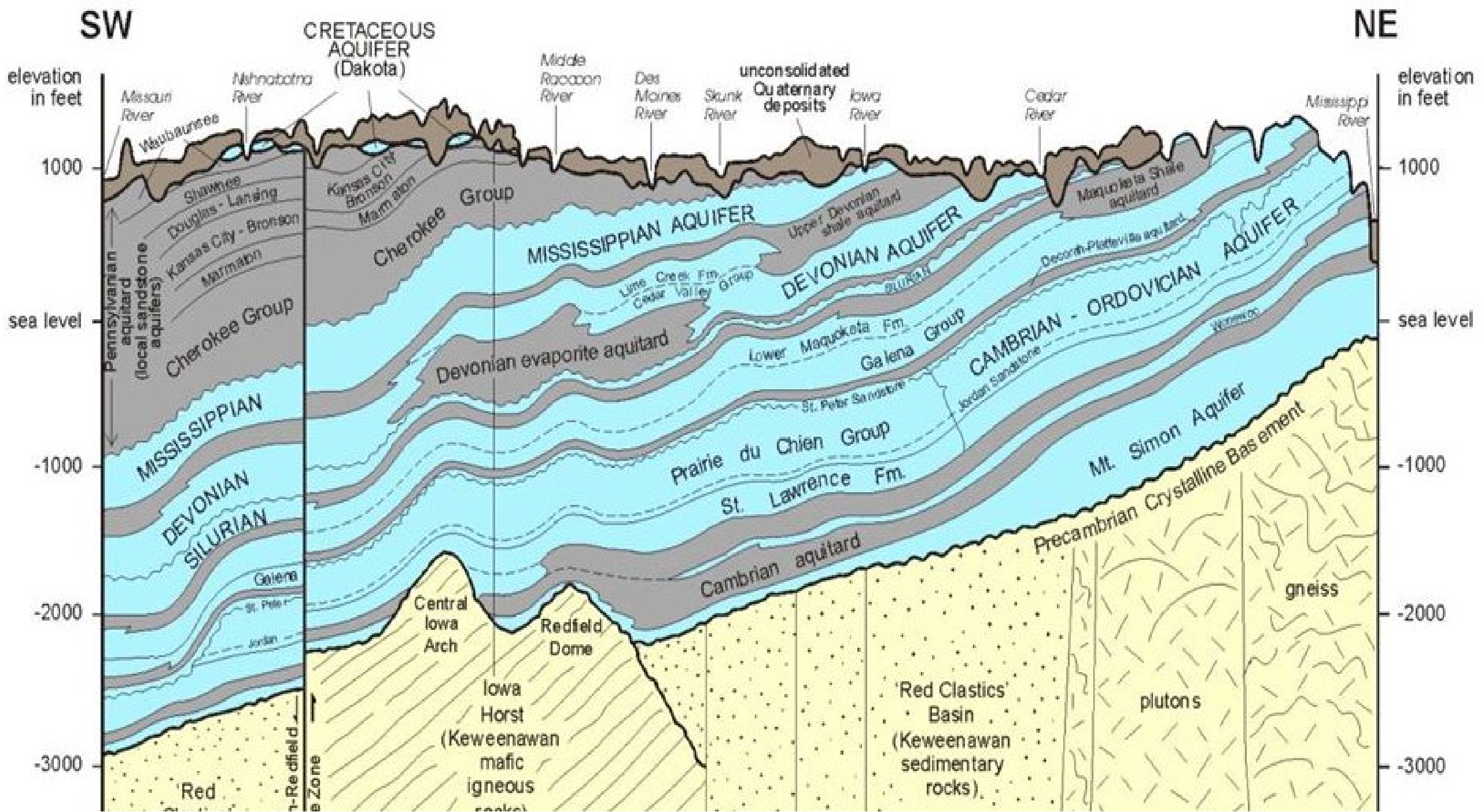


→ Direction of movement of groundwater

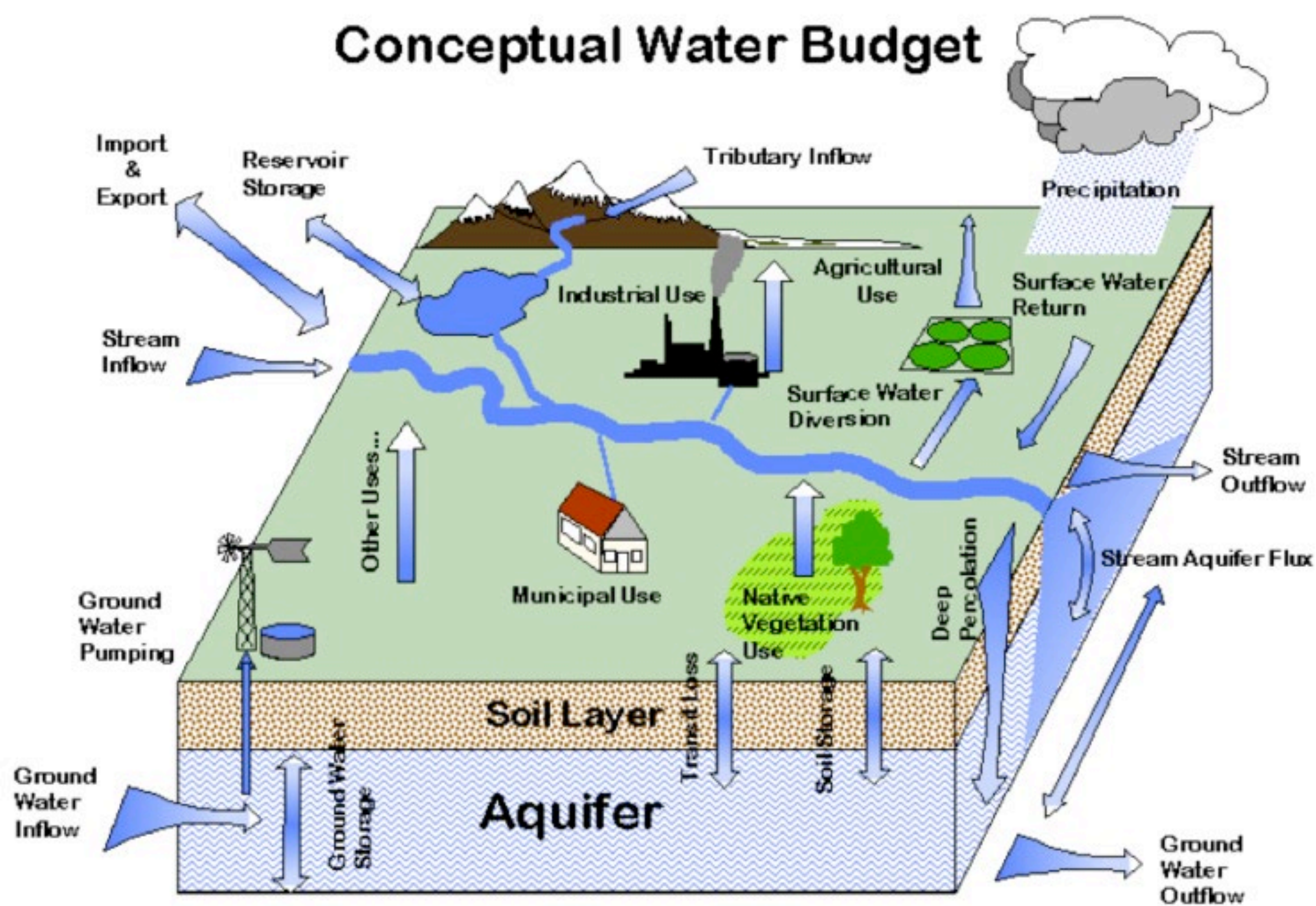
 Sandy soil not saturated, vadose zone

 Sandy soil saturated, zone of saturation

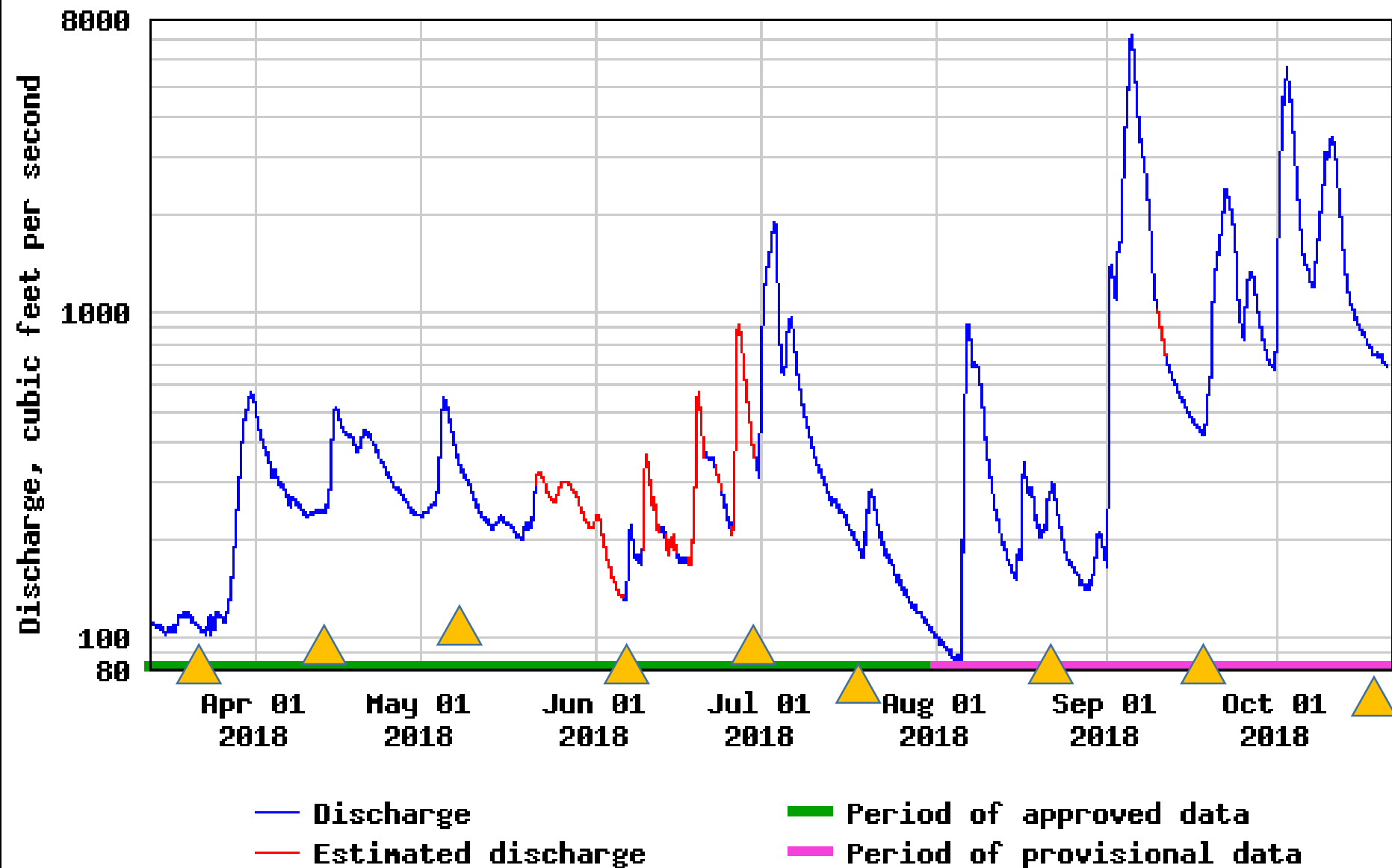
--- Water table, boundary between vadose zone and zone of saturation



Conceptual Water Budget

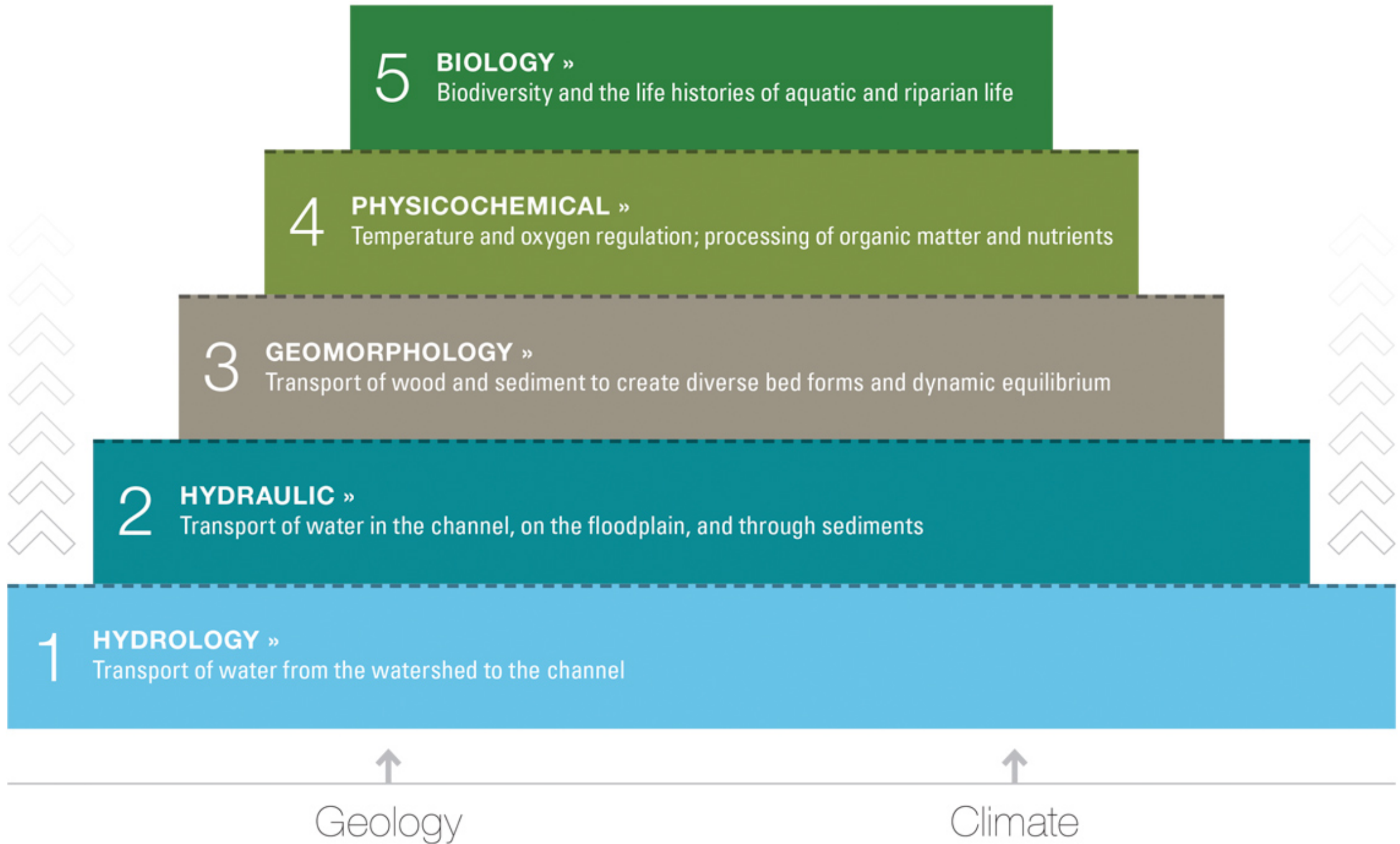


USGS 05463500 Black Hawk Creek at Hudson, IA



Hydrographs

Stream Function Pyramid



Functioning Streams

- Stable form
- Limited erosion
- Water quality
- Diverse aquatic habitat

