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This short course concentrates on the quantification of surface and groundwater hydrological processes. Read more Read less An understanding of rainfall, evapotranspiration, runoff, groundwater recharge, groundwater storage, and groundwater movement is essential for those involved in the science, engineering or management of the water environment.

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GROUND-WATER HYDROLOGY Ground-water supplies are obtained from aquifers, which are subsurface units of rock and unconsolidated sediments capable of yielding water in usable quantities to wells and springs. The hydrologic characteristics of aquifers and natural chemistry of ground water determine the availability and suitability of

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Groundwater Groundwater, water that occurs below the surface of Earth, where it occupies all or part of the void spaces in soils or geologic strata. It is also called subsurface water to distinguish it from surface water, which is found in large bodies like the oceans or lakes or which flows overland in streams.

### Surface-Water and Ground-Water Hydrology and Contaminant ...

### Surface Water vs. Groundwater - Water Education Foundation

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Hydrogeology (hydro- meaning water, and -geology meaning the study of the Earth) is the area of geology that deals with the distribution and movement of groundwater in the soil and rocks of the Earth's crust (commonly in aquifers). The terms groundwater hydrology, geohydrology, and hydrogeology are often used interchangeably.

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GROUND-WATER HYDROLOGY Ground-water supplies are obtained from aquifers, which are subsurface units of rock and unconsolidated sediments capable of yielding water in usable quantities to wells and springs. The hydrologic characteristics of aquifers and natural chemistry of ground water determine the availability and suitability of ground-water resources for specific uses. Ground-Water Resources

Pollution of surface water can cause degradation of ground-water quality and conversely pollution of ground water can degrade surface water. Thus, effective land and water management requires a clear understanding of the linkages between ground water and surface water as it applies to any given hydrologic setting.

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Ground water is part of the hydrologic cycle (see Reference Sheet 10.1, Watershed Function [ANR Publication 8064]). Aquifers are recharged from precipitation, seepage from rivers, and seepage from irrigated fields. If no one pumps the ground water, aquifers eventually "overflow;" that is, they discharge water to the surface through

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### **Basic Concepts of Groundwater Hydrology**

When surface water seeps into the ground above bedrock, it is categorized as groundwater, and the rate at which this occurs determines baseflow needs for instream flow, as well as subsurface water levels in wells. While groundwater is not part of surface-water hydrology, it must be taken into account for a full understanding of the behaviour of surface water.

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