

Hydrogeology Vocabulary List

hydrogeology – the study of geology that deals with

the distribution and movement of groundwater in the soil and rocks of the Earth's crust.

groundwater - water held underground in the soil or in pores and crevices in rock.

hydrothermal - relating to or denoting the action of heated water in the earth's crust.

core – the innermost layer of the Earth.

mantle – the thick middle layer of the Earth.

crust – the thin outermost layer of the Earth.

lithosphere – the rigid, outer part of the Earth.

magma – molten rock.

convection - the movement caused within a fluid by the tendency of hotter and therefore less dense material to rise, and colder, denser material to sink under the influence of gravity, which consequently results in transfer of heat.

convection currents - a current in a fluid that results from convection.

hot springs - a spring produced by the emergence of geothermally heated groundwater that rises from the Earth's crust.

geyser - a hot spring in which water intermittently boils, sending a tall column of water and steam into the air.

Hot Springs Fact Sheet

- The core of the Earth can reach 9900 degrees Fahrenheit or more.
- Groundwater gets heated to more than 400 degrees Fahrenheit but stays a liquid due to the enormous pressure caused by other groundwater and rock.
- The average temperature of water in hot springs is about 147 degrees Fahrenheit. The average temperature of the hot springs in Hot Springs National Park is about 143 degrees Fahrenheit.
- People use the hot springs to alleviate symptoms of arthritis and other joint issues, as well as other conditions.
- The water in Hot Springs National Park is estimated to be over 4000 years old.
- Hot Springs National Park contains 47 natural hot springs.
- It takes the groundwater about a year to rise through the cracks and faults in the Earth.
- The total amount of water that comes out of the Hot Springs averages about 850,000 gallons a day.
- The water in the Hot Springs is safe to drink.
- Hot Springs National Park gets 6-7 million visitors per year.