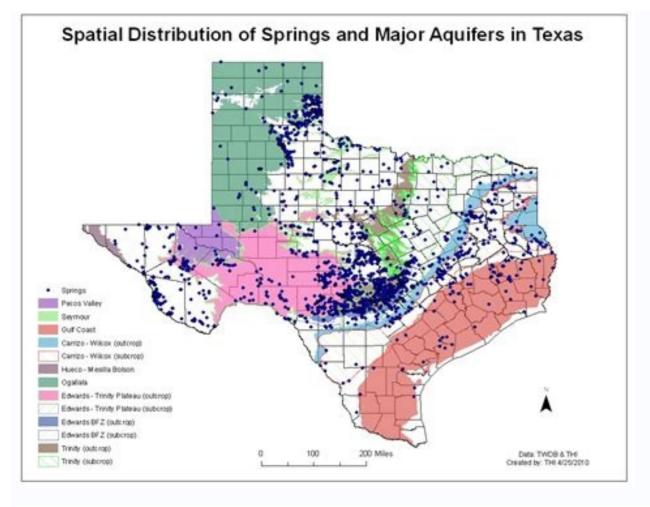
Chapter 7 aquifers and springs answers

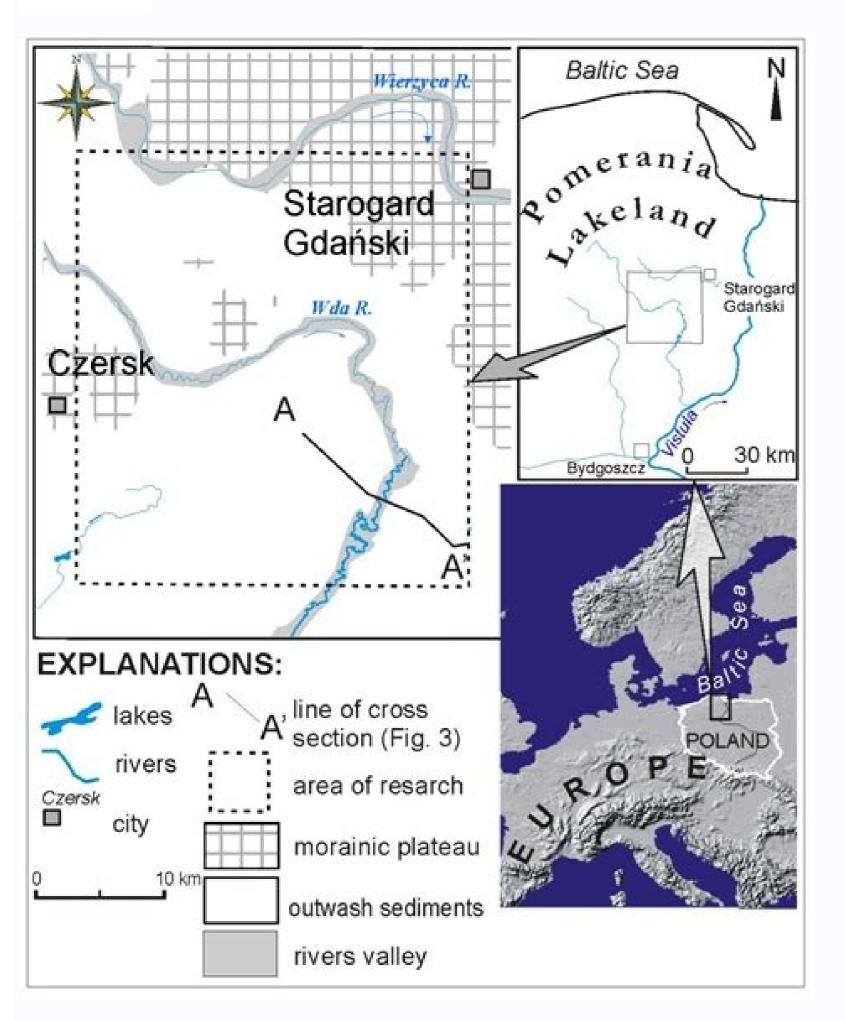
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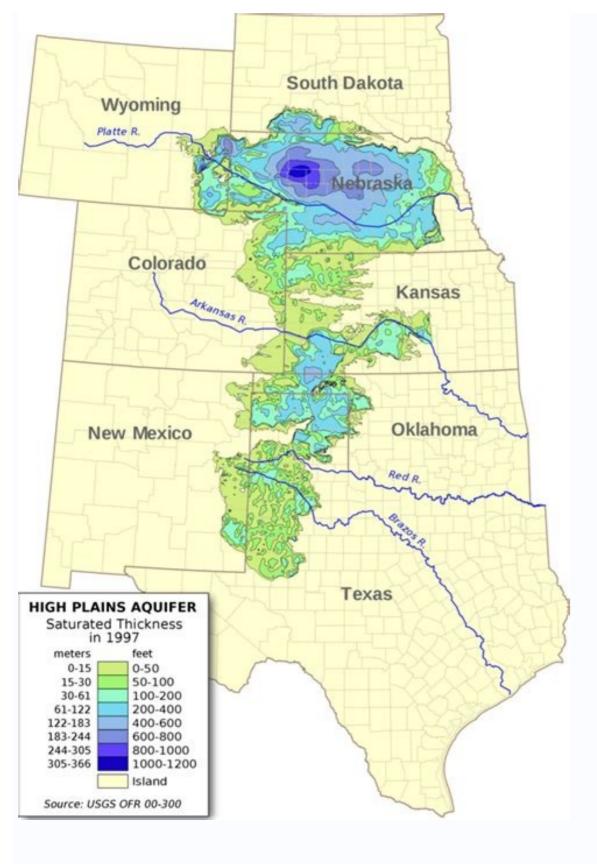






Which of the following geologic material would have the highest prosoft-one wheches and in Some effective is meaning accounted performent from the same? Name





What is an aquifer class 7. Chapter 7 class 6 question answer.

In order to continue enjoying our site, we ask that you confirm your identity as a human. Thank you very much for your cooperation. An aquifer is an underground layer of permeable rock or sand that collects, holds, and conducts water. The materials act like underground sponges allowing water to flow very slowly through it. Water in the aquifer is called groundwater. Many aquifers are like reservoirs because they store water useful to humans and aquatic ecosystems. Groundwater may naturally emerge from the aquifer's water table reaches the surface, groundwater can be released as surface water into rivers and lakes. Wetlands may form where groundwater reaches ground level. If groundwater drops below the surface, these wetlands will become dry and no longer be wetlands. Aquifers vary in size, from narrow to wide, and may be hundreds of feet thick. They may span one to two counties, or may stretch across thousands of square miles and several states. They are recharged, or refilled, when precipitation falling on the land seeps into the ground. Aquifers give rise to Texas streams and rivers where springs form headwaters. People also drill wells into the surface to use for drinking or irrigation. AquifersMost of Texas' land surface lies above aquifers, some large and some small. There are nine major aquifers (Fig. 7.1) and 21 minor aquifers (Fig. 7.2) in Texas. A major aquifer contains large area. Minor aquifers contain smaller amounts of water spread over small areas. Aquifers are an important source of water spread across a large area. we use. Most of the water pumped from aquifers goes to agriculture to irrigate food crops. Over 80% of the irrigation water used in Texas comes from South Dakota southward into Texas and underlies much of Texas' High Plains region. This aquifer's thickness averages 95 feet, although it can be over 800 feet thick in some places. The groundwater in some aquifers can be ancient. The Ogallala aquifer was formed about 2 to 6 million years ago. Groundwater can also be very new. Water that falls as rain and enters the Edwards aquifer near San Marcos can be found emerging from springs a few days or even hours later. Parts of the Edwards aquifer are like a giant underwater cave system. Groundwater can flow like a river through large openings in the underground limestone and marble rock that forms this aquifer. Texas has three kinds of aquifers underground limestone and marble rock that forms this aquifer. Texas has three kinds of aquifers are directly connected to the surface and have water levels dependent on relatively constant recharge. Groundwater flows to the surface whenever the aquifer's upper saturated layer, called the water table, rises to the level of the land's surface. Perhaps the best known unconfined aquifer is the organized in wetlands. As much as 95% of the recharge water in Texas comes from playa lakes. A playa lake is a naturally occurring wetland (averaging about 17 acres) formed when rain fills small depressions in the prairie. There are about 20,000 playa lakes in the High Plains of Texas. Confined aquifers are saturated layers of pervious rock bounded above and below by largely impervious rock, which water can't pass through. This placement of the aquifer between impervious rock layers can "squeeze" the groundwater, placing it under pressure is called an artesian aquifer. Artesian flow feeds many of Texas' famous springs, including San Solomon Springs in West Texas. (Fig. 7.3) Artesian pressure can be so great that if a well is drilled into the aquifer, groundwater can be pushed up all the way to the surface without the need for pumps.Karst aquifers are found in limestone and marble rock. Over long periods of time, limestone and marble rock. even large underground caverns, lakes and streams. One of the most famous aquifers in the world, the Edwards aquifer is a confined karst aquifer flowing through limestone in Texas. There are many well-known locations where water from this aquifer flows to the surface creating large springs. (Fig. 7.4) In some places cave entrances open directly on the surface and lead deep into the aquifer. Underwater divers have explored some of the Edwards aquifer's underwater caves and flowing rivers. (Fig. 7.5)SpringsSprings are the places aquifer water flows to the surface. A pool and often a stream are formed by springs. Texas is home to more than 3,000 springs. (Fig. 7.5)Springs can be cool water or so hot the water steams and almost boils when it reaches the surface. Springs often form along faults. These are places where an earthquake has cracked and split open the earth, exposing the southwest part of the state near Del Rio, to the north central region near Waco along Interstate 35. For a distance of about 300 miles, this fault has exposed the Edwards aquifer creating many prominent springs (Fig. 7.4). Aquifer and spring ecosystems Most aquifers do not support aquatic ecosystems as we normally think about them. There is no light underground, so no photosynthesis by plants can occur. There may be no dissolved oxygen. There are some organisms that can live in such dark, nutrient-poor anaerobic conditions. Microorganisms, primarily bacteria, protozoans, and other unicellular life, are found in aquifers. Some kinds of bacteria in groundwater are useful to humans. An example is denitrifying bacteria that remove nitrates. Excess nitrates are a water pollutant that may seep into the aquifer, particularly in agricultural regions where fertilizers or manure containing nitrates are spread on soils to enhance growth of food crops. There is one kind of aquifer that can support a more complex underground aquatic ecosystem, although the life here is very different than we see in lakes, rivers, or the ocean. The karst aquifers' caves and underground lakes and rivers can support entire ecosystems that include invertebrates, fish, and amphibians. But these species are unlike any we are used to seeing above ground. The aquifer has no sunlight and therefore no green plants or algae with chlorophyll taking the sun's energy and converting it to food. Without these primary producers, these aquatic systems do not have a lot of nutrients or food available. Available food is constantly recycled among the organisms, with only occasional additions from the outside. These underground ecosystems have a very low carrying capacity. They can only support a few individuals of any one species, and these individuals do not grow very large. The lack of sunlight has another consequence. The single most amazing adaptation of invertebrates, fish, and amphibians to the dark underground aquatic ecosystems is an absence of eyes. Without light there is no need for eyes. (Fig. 7.7) Predators have adapted ways to find and catch prey in the dark, and prey have adapted ways to escape. Sensory adaptations such as antennae, chemoreceptors, and touch receptors are usually highly developed in underground dwelling species. These species also often have a very low metabolism, allowing them to live on very little food. This adaptation is aided by the constant temperatures of aquifer waters, compared to surface water temperatures which can vary quickly and widely. Groundwater species live in a very stable and predictable environment. As with aquatic ecosystems above ground there can be overlaps with other ecosystems. This means species in the aquifer may not be completely isolated from life on the surface. The land surface above karst aquifers is an integral part of the habitat of animals inhabiting the underground areas. Holes in the limestone and marble of these aquifers often extending deep into the aquifer. There are also caves open to the surface that lead to the aquifer. Because plants can't grow in darkness, the cave and associated underwater ecosystem is dependent on plant and animal materials being washed into the cave from the outside. Food in a cave can also come from organisms such as bats, mice, and crickets that take shelter in caves. They can become food (prey) for cave dwellers or leave "food" behind when they leave. For example, bat and mouse feces dropped on a cave floor provides nutrients fungi need to grow. Fungi are eaten by several species of insects that may wander in and out of the cave. These insects reproduce rapidly, move about the cave, and become prey for predatory invertebrates that live their entire lives in the cave. These invertebrates fall into the water and are swept deep into the aquifer ecosystem extends beyond the aquifer itself where groundwater emerges into the spring. Here the groundwater mixes with surface water in the spring, stream, rivers, and lakes. However it is in the spring stream, rivers, and lakes. underground ecosystem when an invertebrate, fish or, salamander from the Edwards aquifer gets swept out at a spring. You may see one of these odd creatures, or one of the predators that like to eat them, when you tour the San Marcos Springs in Texas do. Some even contain species found nowhere else. The Edwards aquifer ecosystem and its springs contain over 60 species of plants and animals that live nowhere else in the world. Species of salamanders, fish, amphipods, beetles, spiders, and others have evolved in isolated habitats within the aquifer and springs. Many of these live in the dry caves above the water table and others live in the many springs fed by the aquifer. Barton Springs, located in Austin, is the only place where the Barton Springs and river immediately downstream of the springs. Because springs are exposed to sunlight, aquatic plants and algae play a role in providing nutrients. A relatively constant temperature, at least near spring, including in the stream and river the spring creates. Water temperatures in particular may limit a species adapted to a spring ecosystem from wandering beyond the vicinity of the spring. Cool spring waters may quickly warm when exposed to Texas' hot weather. As a result, spring ecosystems tend to be small, allowing only relatively small populations of any one species to survive. As with species adapted for a life completely underground, species in a spring low due to drought or groundwater withdrawals may reduce habitat. For species in a spring, lowered spring flow due to drought or groundwater withdrawals may reduce habitat. spring species. Many of Texas' stream ecosystems have been impacted by both flow reductions and invasive species. Humans have made the most changes to springs. Many of Texas' largest springs have even been turned into swimming pools by placing a dam across water flowing from the spring. These include Barton Springs Pool in Austin and the largest spring-fed swimming pool in the world, located at Balmorhea State Park in West Texas. At such places, the native spring ecosystems no longer exist. Use groundwater in an aquifer is like money in your bank. Each time you put money in your bank, the amount of money you have grows. When you withdraw money from your bank to buy something, your bank account goes down and stays down until you put more money in. Aquifers grow when nature puts water in through rainfall, snow, and through other openings. Humans greatly increase water withdrawals by drilling wells into the aquifer and pumping water out. Just as withdrawing money from your bank account depletes the money you have for future use, withdrawing groundwater. The size of the aquifer and how full it is determines how much water it is holding at any point in time. The porosity of the aquifer determines the rate at which water can move through or into the aquifer sefill rapidly, so if there is sufficient rainfall in the aquifer area the amount of time needed to recharge the aquifer can move as far as eight miles in a single day. Water may take hundreds or tens of thousands of years to move that far in other aguifers, such as the Ogallala, have an enormous capacity to store water, but can take very long to recharge. Water taken from aguifers that recharge slowly is almost like mining a nonrenewable resource such as coal or copper. Once water is taken out, recharge will take so long that for all practical purposes the aquifer is no being pumped out by nearly 200,000 irrigation wells, with the highest rates of pumping generally occurring during the driest years. In southern parts of the aquifer pumping has already lowered the water table as much as 200 feet. Pollutants, such as gasoline, oil, runoff from roads, fertilizers, and chemicals can seep into the groundwater. other particles. They provide natural purification of the groundwater flowing through them, so water coming out of an aquifer is usually cleaner than when going in. However, many dissolved substances may not be filtered. Despite natural purification, groundwater can become polluted. Natural concentrations of some contaminants can be high. For example some groundwater contains high natural concentrations of iron, hydrogen sulfide, salts, manganese, uranium, or arsenic. Sometimes groundwater must be treated through special processes so humans can use the water safely. Due to the increasing loss and contamination of this special habitat, many of Texas' unique spring and underground dwelling species have been declared by government agencies to be threatened or endangered with extinction.

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