Injection Well Encyclopedia Article

Injection Well

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Injection Well

Injection **wells** are used to dispose waste into the subsurface zone. These wastes can include brine from oil and gas wells, liquid hazardous wastes, agricultural and **urban runoff**, municipal sewage, and return water from air-conditioning. Recharge wells can also be used for injecting fluids to enhance oil recovery, injecting treated water for artificial **aquifer** recharge, or enhancing a pump-and-treat system. If the wells are poorly designed or constructed, or if the local geology is not sufficiently studied, injected liquids can enter an aquifer and cause **groundwater** contamination. Injection wells are regulated under the Underground Injection Control Program of the **Safe Drinking Water Act**.

See Also

Aquifer Restoration; Deep-Well Injection; Drinking-Water Supply; Groundwater Monitoring; Groundwater Pollution; Water Table