

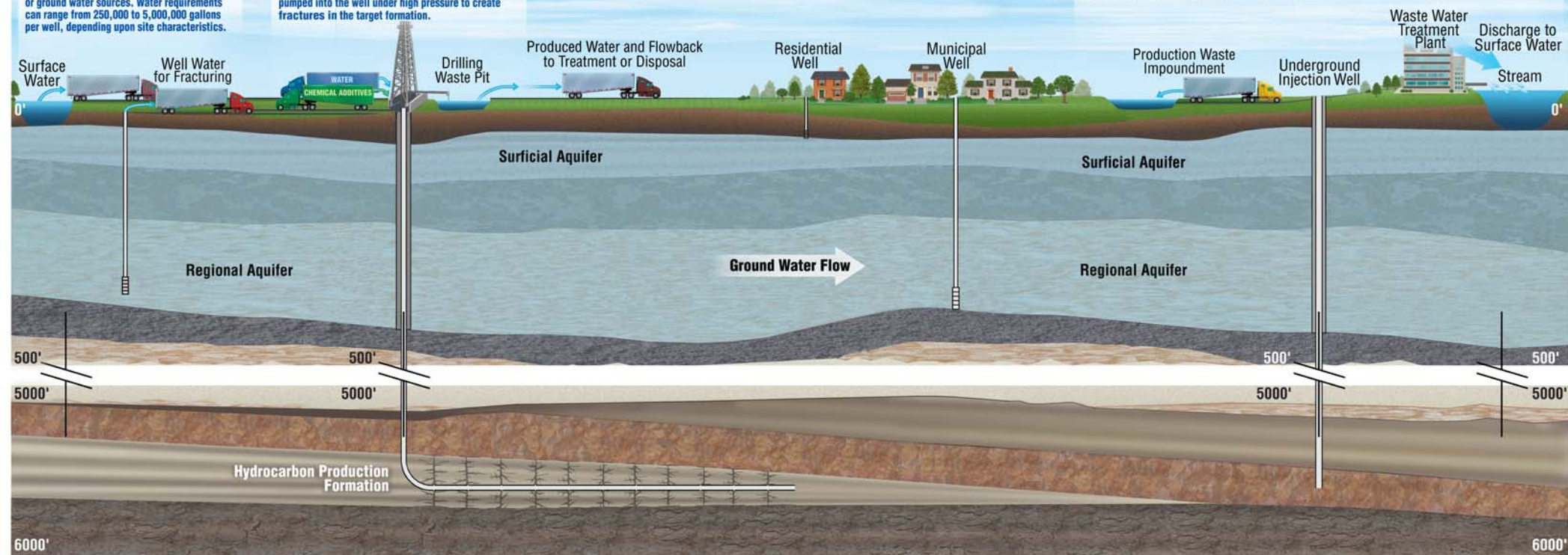


## Simplified Water Lifecycle in the Hydraulic Fracturing Process

Hydraulic fracturing (HF) uses water from public water supplies, or directly from surface or ground water sources. Water requirements can range from 250,000 to 5,000,000 gallons per well, depending upon site characteristics.

At the production well site, chemicals and proppant (sand or ceramic beads) are mixed with the water and pumped into the well under high pressure to create fractures in the target formation.

At the completion of HF, water mixed with the fracturing fluids (flowback and production water) is pumped back to the surface for disposal, treatment, or recycling.



Not To Scale