CHEMICAL QUALITY OF WATER

The chemical quality of water in the lower aquifer unit in the Kansas Interior Plains Aquifer System is described in this report. The aquifer system is characterized by its high transmissivity and recharge potential, making it a significant source of groundwater in the region. The chemical composition of the water is influenced by various factors, including geological formations and the presence of different contaminants.

- **Calcium carbonate**: 300 mg/L or less
- **Magnesium**: 150 mg/L or less
- **Sodium**: 200 mg/L or less
- **Potassium**: 50 mg/L or less
- **Chloride**: 250 mg/L or less
- **Bromide**: 5 mg/L or less
- **Nitrate**: 10 mg/L or less
- **Nitrite**: 0.1 mg/L or less
- **Sulfate**: 250 mg/L or less
- **Alkalinity**: 200 mg/L or less
- **Total Dissolved Solids**: 1,500 mg/L or less

Water quality data were compiled from various sources, including U.S. Geological Survey (USGS) well tests and other existing data. The chemical properties of the water were analyzed using standard laboratory methods.

SELECTED REFERENCES


GEOHYDROLOGIC SYSTEMS IN KANSAS—GEOHYDROLOGY OF THE LOWER AQUIFER UNIT IN THE WESTERN INTERIOR PLAINS AQUIFER SYSTEM

By

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1993