Summary of selected water quality data from ground-water samples collected from February 1995 through December 2014 as a part of the Equus Beds Ground-Water Recharge Project.

| Little Arkansas River at Sedgwick, KS (07144100) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Constituent** | **Units** | **Water Quality Criteria** | **Number of Samples** | **Minimum** | **Maximum** | **Mean** | **Median** | **Percentage of Samples Detected** | **Percentage of Samples Exceeding Criteria** |
| Sodium | mg/L | - | 267 | 1.50 | 132 | 48.7 | 47.7 | 100 | - |
| Sulfate | mg/L | 250 (SDWR)[a] | 273 | 3.22 | 211 | 41.7 | 43.0 | 95.6 | 0.00 |
| Chloride | mg/L | 250 (SDWR)[a] | 277 | 5.00 | 315 | 73.2 | 60.7 | 97.5 | 0.72 |
| Nitrate plus nitrite | mg/L | 10 (MCL)[a] | 269 | 0.01 | 11.7 | 1.30 | 1.07 | 97.8 | 0.37 |
| Phosphorus | mg/L | - | 170 | 0.03 | 2.00 | 0.42 | 0.39 | 100 | - |
| Organic carbon | mg/L | - | 219 | 0.59 | 49.6 | 12.6 | 10.1 | 99.5 | - |
| Bromide | mg/L | - | 197 | - | 0.98 | 0.19* | 0.14* | 93.9 | - |
| Chlorine (total residual) | mg/L | 4000 (MCL)[a] | 47 | - | 0.21 | 0.03* | 0.02 | 19.1 | 0.00 |
| Total nitrogen | mg/L | - | 19 | 0.30 | 5.89 | 1.65 | 1.29 | 100 | - |
| Arsenic | µg/L | 10 (MCL)[a] | 189 | 1.000 | 15.9 | 5.92* | 5.08 | 99.5 | 12.7 |
| Copper | µg/L | 1300 (MCL)[a] | 132 | - | 7.00 | 2.26* | 2.01* | 5.30 | 0.00 |
| Iron | µg/L | 300 (SDWR)[a] | 267 | - | 621 | 60.3* | 16.0* | 55.4 | 7.87 |
| Manganese | µg/L | 50 (SDWR)[a] | 266 | - | 740 | 112* | 37.2* | 82.3 | 47.0 |
| Total coliforms | cfu/100 mL | - | 190 | 1.00 | 9,000,000 | 57,000 | 1,700 | 92.1 | 100 |
| Fecal coliforms | cfu/100 mL | 2000 (MCLG)[b] | 385 | 1.00 | 4,000,000 | 15,000 | 630 | 85.2 | 34.0 |
| Escherichia coli | cfu/100 mL | 2358 (MCLG)[b] | 153 | 3.00 | 46,000 | 3,780 | 690 | 73.9 | 31.4 |
| Atrazine | µg/L | 3 (MCL)[a] | 482 | 0.02 | 48.0 | 5.30 | 3.04 | 92.1 | 50.4 |
| Triazines | µg/L | 3 (MCL)[a] | 3209 | 0.09 | 41.0 | 3.65 | 1.83 | 95.2 | 35.4 |
| Alachlor | µg/L | 2 (MCL)[a] | 516 | - | 12.7 | 0.39* | 0.08* | 63.6 | 3.49 |
| Glyphosate | µg/L | 0.7 (MCL)[a] | 13 | 0.01 | 3.50 | 0.97 | 0.69 | 92.3 | 46.2 |

[mg/L, milligrams per liter; DWA, drinking water advisory; SDWR, secondary drinking water regulation; <, less than; MCL, maximum contaminant level; µg/L, micrograms per liter; cols/100 mL, colonies per 100 milliliters; MCLG, maximum contaminant level goal]

* - Value is estimated by using a log-probability regression to predict the values of data below the detection limit

[a] U.S. Environmental Protection Agency (2006)

[b] Kansas Department of Health and Environment (2004)