

Summary of selected water-quality data from ground-water samples collected from February 1995 through December 2013 as a part of the *Equus* Beds Ground-Water Recharge Project.

[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]

Little Arkansas River at Sedgwick, KS (07144100)

Compound or fecal indicator bacteria	Water-quality criteria	Number of Samples	Minimum	Maximum	Mean	Median	Percentage of Samples Detected	Percentage of Samples Exceeding Criteria	Percentage of Replicate Samples Exceeding Criteria
Sodium, dissolved (mg/L)	20 mg/L (DWA) ^a	280	1.5	132.0	48.5	47.1	100.0	71.8	75.0
Sulfate, dissolved (mg/L)	250 mg/L (SDWR) ^a	279	3.2	211.0	40.2	40.0	95.5	0.0	0.0
Chloride, dissolved (mg/L)	250 mg/L (SDWR) ^a	283	5.0	315.0	73.9	59.3	97.4	0.7	0.0
Nitrite plus nitrate as nitrogen, dissolved (mg/L)	10 mg/L (MCL) ^a	281	0.0	11.7	1.4	1.1	99.2	0.4	0.0
Arsenic, dissolved (µg/L)	10 µg/L (MCL) ^a	202	1.0	15.9	5.7	5.0	99.4	11.6	27.8
Iron, dissolved (µg/L)	300 µg/L (SDWR) ^a	280	--	620.9	61.437*	*16.175	56.4	8.1	0.0
Manganese, dissolved (µg/L)	50 µg/L (SDWR) ^a	258	--	740.0	110.702*	*36.450	81.8	46.1	50.0
Total coliform bacteria (cols/100 mL)	0 cols/100 mL (MCLG) ^a	190	--	9,000,000.0	56926.648*	*1700.000	93.2	93.2	78.3
Fecal coliform bacteria ^c (cols/100 mL)	200 cols/100mL (MCLG) ^d	273	16.0	4,000,000.0	20,202.2	1,133.0	100.0	74.7	60.0
	2,000 cols/100mL (MCLG) ^d	104	0.5	20,500.0	1,396.0	107.0	96.2	14.4	10.0
<i>Escherichia coli</i> ^e (cols/100 mL)	262 cols/100mL (MCLG) ^f	106	13.0	46,000.0	4,906.5	1,108.5	100.0	71.7	50.0
	2,358 cols/100mL (MCLG) ^f	39	3.0	17,250.0	1,299.1	116.0	100.0	17.9	0.0
Atrazine herbicide	3 µg/L as an annual average ^a (MCL)	462	0.0	48.0	5.4	3.1	98.9	51.5	50.0
Triazine herbicide screen, dissolved (µg/L as Atrazine)	3 µg/L as an annual average ^a (MCL)	3151	0.1	41.0	3.7	1.9	95.6	35.9	41.8
Alachlor (µg/L)	2 µg/L (MCL) ^a	507	0.0	12.7	0.4	0.1	65.1	2.2	0.0

^a U.S. Environmental Protection Agency (2006)

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

^c For fecal coliform bacteria, the primary contact recreation surface-water criterion of 200 cols/100mL was used from April 1 - October 31 (when most water-contact recreation occurs); from November 1 - March 31, the criterion of 2,358 cols/100mL was used.

^d Kansas Department of Health and Environment (2001)

^e For *Escherichia coli*, the primary contact recreation surface-water quality criterion of 262 cols/100mL was used from April 1 - October 31 for Class B (public access) stream segments; from November 1 - March 31, the criterion of 2,358 cols/100mL was used.

^f Kansas Department of Health and Environment (2004)