

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]

Monitoring Wells near the Halstead Recharge Site

Site Numbers: 380047097335601, 380049097335401, 380052097335301, 380053097340501, 380118097342601

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	22	23.0	75.4	38.3	33.4	100.0	100.0	100.0
Sulfate, dissolved (mg/L)	250 mg/L (SDWR) ^a	22	16.0	82.0	41.0	35.2	100.0	0.0	0.0
Chloride, dissolved (mg/L)	250 mg/L (SDWR) ^a	22	9.0	73.0	29.9	28.2	100.0	0.0	0.0
Nitrite plus nitrate as nitrogen, dissolved (mg/L)	10 mg/L (MCL) ^a	22	0.0	9.2	2.009*	*0.096	45.5	0.0	0.0
Arsenic, dissolved (µg/L)	10 µg/L (MCL) ^a	8	2.2	12.5	6.7	5.8	100.0	37.5	0.0
Iron, dissolved (µg/L)	300 µg/L (SDWR) ^a	22	2.5	2180.0	869.137*	*829.000	68.2	63.6	100.0
Manganese, dissolved (µg/L)	50 µg/L (SDWR) ^a	22	2.5	627.0	329.818*	*318.500	63.6	63.6	100.0
Total coliform bacteria (cols/100 mL)	0 cols/100 mL (MCLG) ^a	19	0.5	175.0	10.0	0.5	26.3	26.3	0.0
Fecal coliform bacteria ^c (cols/100 mL)	200 cols/100mL (MCLG) ^d	14	0.5	1.0	0.5	0.5	7.1	0.0	0.0
	2,000 cols/100mL (MCLG) ^d	8	0.5	0.5	0.5	0.5	0.0	0.0	0.0
<i>Escherichia coli</i> ^e (cols/100 mL)	262 cols/100mL (MCLG) ^f	NA	NA	NA	NA	NA	NA	NA	NA
	2,358 cols/100mL (MCLG) ^f	3	0.5	0.5	0.5	0.5	0.0	0.0	0.0
Atrazine herbicide	3 µg/L as an annual average ^a (MCL)	10	0.0	0.1	0.0	0.0	80.0	0.0	0.0
Triazine herbicide screen, dissolved (µg/L as Atrazine)	3 µg/L as an annual average ^a (MCL)	22	0.1	0.1	0.1	0.1	0.0	0.0	0.0
Alachlor (µg/L)	2 µg/L (MCL) ^a	10	0.0	0.0	0.0	0.0	0.0	0.0	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)