

Summary of selected water-quality data from ground-water samples collected from February 1995 through December 2008 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]

Aquifer storage and recovery prototype wells

Wells: DW-TW-01 through DW-TW-09, RRW-01, RRW-02, RRW-03

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	177	14.9	44.4	30.4	30.8	100	93.8	100
Sulfate, dissolved (mg/L)	250 mg/L (SDWR) ^a	178	< 5	135	15.8	13.9	98.3	0	0
Chloride, dissolved (mg/L)	250 mg/L (SDWR) ^a	178	4.6	98.8	8.30 ^b	5.8	75.8	0	0
Nitrite plus nitrate as nitrogen, dissolved (mg/L)	10 mg/L (MCL) ^a	178	0.01	5.94	0.196 ^b	0.015	44.4	0	0
Arsenic, dissolved (µg/L)	10 µg/L (MCL) ^a	170	< 1	21.4	6.67	6.31	97.6	19.4	6.67
Iron, dissolved (µg/L)	300 µg/L (SDWR) ^a	177	< 5	660	37.2 ^b	2.69	24.3	4.52	6.67
Manganese, dissolved (µg/L)	50 µg/L (SDWR) ^a	177	44	439	195	190	100	98.9	100
Total coliform bacteria (cols/100 mL)	0 cols/100 mL (MCLG) ^a	177	< 1	224	4	< 1	13.0	13.0	0
Fecal coliform bacteria ^c (cols/100 mL)	200 cols/100mL (MCLG) ^d	88	< 1	< 1	< 1	< 1	0	0	0
	2,000 cols/100mL (MCLG) ^d	89	< 1	1	< 1	< 1	1.12	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	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine herbicide	3 µg/L as an annual average ^a (MCL)	80	0.0067	0.05	< 0.05	< 0.007	12.5	0	0
Triazine herbicide screen, dissolved (µg/L as Atrazine)	3 µg/L as an annual average ^a (MCL)	181	< 0.1	0.31	< 0.1	< 0.1	6.63	0	0
Alachlor (µg/L)	2 µg/L (MCL) ^a	70	< 0.0045	< 0.05	< 0.05	< 0.05	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)