

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]

Aquifer Storage and Recovery (ASR) Phase 1 (Shallow) Sites

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	108	19.0	155.6	61.7	54.6	100.0	99.1	100.0
Sulfate, dissolved (mg/L)	250 mg/L (SDWR) ^a	108	8.5	450.0	118.8	79.3	100.0	13.9	15.4
Chloride, dissolved (mg/L)	250 mg/L (SDWR) ^a	108	5.0	297.0	67.1	47.4	96.3	0.9	0.0
Nitrite plus nitrate as nitrogen, dissolved (mg/L)	10 mg/L (MCL) ^a	108	--	2.8	0.416*	*0.034	53.7	0.0	0.0
Arsenic, dissolved (µg/L)	10 µg/L (MCL) ^a	108	--	14.8	6.125*	*5.420	83.3	17.6	0.0
Iron, dissolved (µg/L)	300 µg/L (SDWR) ^a	108	--	12240.0	2519.781*	*1150.000	67.6	67.6	61.5
Manganese, dissolved (µg/L)	50 µg/L (SDWR) ^a	108	5.0	843.0	228.2	146.5	97.2	75.9	76.9
Total coliform bacteria (cols/100 mL)	0 cols/100 mL (MCLG) ^a	85	--	104.0	1.958*	*0.017	17.6	17.6	16.7
Fecal coliform bacteria ^c (cols/100 mL)	200 cols/100mL (MCLG) ^d	84	0.5	10.0	0.9	0.5	10.7	0.0	0.0
	2,000 cols/100mL (MCLG) ^d	41	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	29	0.5	11.0	1.1	0.5	20.7	0.0	0.0
	2,358 cols/100mL (MCLG) ^f	11	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)	44	0.0	1.7	0.1	0.0	50.0	0.0	0.0
Triazine herbicide screen, dissolved (µg/L as Atrazine)	3 µg/L as an annual average ^a (MCL)	108	0.1	1.9	0.1	0.1	14.8	0.0	0.0
Alachlor (µg/L)	2 µg/L (MCL) ^a	44	0.0	0.1	0.0	0.0	6.8	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)