

**Table 7.** Summary of trace-element concentrations in water samples collected during baseline, 1995–98, and artificial recharge, 1996–98, conditions:

[MCL, Maximum Contaminant Level; SMCL, Secondary Maximum Contaminant level; µg/L, micrograms per liter; <, less than; %, median value is estimated by using a log-probability regression to predict values of the data less than the detection limit; --, not determined. The first set of numbers under each heading (for example, <8.0–460) indicates the range in concentrations. The number in parentheses ( ) indicates the number of samples collected, and the number below (for example, 8.4) is the median value]

Data-collection site (figs. 1, 2, 3, or 5)	Water-quality conditions (dates of collection)	Aluminum (µg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Boron (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Manganese (µg/L)	Selenium (µg/L)	Silver (µg/L)
<b>U.S. Environmental Protection Agency (1999) drinking-water criteria</b>													
		30 (SMCL)	6.0 (MCL)	30 (MCL)	2,000 (MCL)	4.0 (MCL)	600 (HAL)	300 (SMCL)	15 (MCL)	2.0 (MCL)	30 (SMCL)	30 (MCL)	100 (SMCL)
<b>Surface-water monitoring sites (Little Arkansas River)</b>													
07143672 (near Halstead)	Baseline (February 1995 through September 1997)	<8.0–960 (19) 8.4 <sup>*</sup>	<2.5–5.0 (18) --	2.0–13 (18) 6.0	30–320 (19) 210	<0.001–2.6 (19) --	28–130 (19) 70	<5.0–860 (10) 13 <sup>*</sup>	<1.0 (18) --	<0.02–0.10 (19) 0.02 <sup>*</sup>	<5.0–1,100 (84) 120 <sup>*</sup>	<2.0–23 (18) --	<7.0–23 (19) --
	Recharge (October 1997 through July 1998)	<10 (2) --	<2.5 (2) --	5.2, 6.1 (2) --	210, 213 (2) --	<1.0 (2) --	72, 81 (2) --	<5.0–30 (33) 5.23	<1.0 (2) --	<0.10, 0.14 (2) --	<5.0–340 (33) 100 <sup>*</sup>	2.1, 23 (2) --	11, 12 (2) --
07144100 (near Sedgwick)	Baseline (February 1995 through September 1997)	<8.0–840 (17) 20 <sup>*</sup>	<2.5 (16) --	3.3–13 (16) 6.4	62–270 (17) 170	<1.0–1.8 (17) --	30–130 (17) 86	<5.0–620 (51) 19 <sup>*</sup>	<1.0–1.1 (16) --	<0.02–0.45 (16) 0.02 <sup>*</sup>	<5.0–740 (51) 38 <sup>*</sup>	<2.0–2.6 (16) --	<7.0–28 (17) --
	Recharge (October 1997 through July 1998)	<10 (3) --	<2.5 (3) --	3.0–7.4 (3) --	66–220 (3) --	<1.0–1.0 (3) --	39–75 (3) --	<5.0–30 (22) 63 <sup>*</sup>	<1.0 (3) --	<0.10 (3) --	<5.0–160 (22) 14 <sup>*</sup>	<2.0 (3) --	11–18 (3) --
<b>Ground-water or diverted-water monitoring sites</b>													
<b>Background wells</b>													
	Baseline (February 1995 through September 1997)	<8.0–11 (26) --	<2.5 (26) --	<1.0–15 (26) 2.4 <sup>*</sup>	51–280 (26) 130	<1.0 (26) --	24–37 (26) 47	<5.0–1,800 (38) 550	<1.0–9.4 (26) --	<0.02–<0.20 (26) --	87–4,300 (38) 170	<1.0–2.0 (26) --	<1.0–<10 (26) --
	Recharge (October 1997 through July 1998)	<10 (2) --	<2.5 (2) --	1.0, 6.8 (2) --	120, 170 (2) --	<1.0 (2) --	30 (1) --	<10–660 (7) 810 <sup>*</sup>	<1.0 (2) --	<0.02–<0.10 (2) --	84–620 (7) 97	<2.0 (2) --	<10 (2) --
<b>Domestic wells near Halstead</b>													
	Baseline (April 1998)	--	--	--	--	--	--	<5.0–1,600 (5) --	--	--	<5.0–430 (5) --	--	--