

Table 4. Summary of determinations of physical properties and analyses of selected constituents in water samples collected during baseline, 1995–98, and artificial recharge, 1996–98, conditions

[MCL, Maximum Contaminant Level; SMCL, Secondary Maximum Contaminant Level; $\mu\text{S}/\text{cm}$, microsiemens per centimeter at 25 degrees Celsius; NTU, nephelometric turbidity units; mg/L , milligrams per liter; *, median value is estimated by using a log-probability regression to predict the values of data less than the detection limit; <, less than; >, greater than; --, not determined. The first set of numbers under each heading (for example, 99–2,000) indicates the range in concentrations. The number in parentheses () indicates the number of samples collected, and the number below (for example, 860) is the median value]

Data-collection site (figs. 1, 2, 3, or 5)	Water-quality conditions (dates of collection)	Specific conductance ($\mu\text{S}/\text{cm}$)	pH (standard units)	Water temperature (degrees Celsius)	Onsite turbidity (NTU)	Laboratory turbidity (NTU)	Dissolved oxygen (mg/L)	Total hardness (mg/L)	Alkalinity, as CaCO_3 (mg/L)	Suspended solids, residue, total (mg/L)	Dissolved solids (mg/L)
U.S. Environmental Protection Agency (1999) drinking-water criteria											
		--	6.5–8.5 (SMCL)	--	--	0.5–1.0 (MCL)	--	--	--	--	300 (SMCL)
Surface-water monitoring sites (Little Arkansas River)											
07143672 (near Halstead)	Baseline (February 1995 through September 1997)	99–2,000 (361) 860	6.2–8.4 (78) 7.7	1.9–27 (71) 17	--	0.3–1,200 (36) 39	2.5–14 (66) 7.5	27–490 (70) 320	27–310 (70) 230	4.0–1,600 (36) 69	68–1,100 (70) 390
	Recharge (October 1997 through July 1998)	190–3,600 (33) 1,000	6.9–8.3 (36) 7.7	0.22–27 (36) 6.3	17, 21 (2) --	5.1–1,100 (15) 100	4.7–16 (34) 11	54–380 (33) 350	44–290 (33) 200	4.0–780 (15) 80	110–2,000 (33) 620
07144100 (near Sedgwick)	Baseline (February 1995 through September 1997)	40–1,600 (654) 630	6.1–8.6 (62) 7.6	1.6–27 (53) 17	--	1.4–800 (51) 69	4.4–19 (51) 7.6	38–410 (51) 220	39–290 (51) 160	4.0–830 (51) 90	92–760 (51) 400
	Recharge (October 1997 through July 1998)	210–1,200 (212) 700	7.0–8.7 (31) 7.9	-0.20–32 (29) 14	19–120 (7) --	5.3–1,000 (16) 110	5.6–16 (27) 9.5	36–390 (22) 240	18–260 (22) 180	5.2–940 (20) 140	110–730 (18) 380
Ground-water or diverted-water monitoring sites											
Background wells											
	Baseline (February 1995 through September 1997)	330–1,000 (43) 630	6.1–7.4 (43) 6.8	15–17 (43) 16	0.03–26 (39) 0.64	0.13–48 (38) 0.6	0.03–0.80 (42) 0.15	190–360 (38) 240	180–300 (38) 210	0.8–100 (38) 1.4*	220–360 (38) 380
	Recharge (October 1997 through July 1998)	600–780 (7) 620	6.6–7.2 (7) 7.0	15–16 (7) 15	<0.10–0.92 (7) 0.27*	0.19–4.2 (7) 0.35	0.11–0.82 (7) 0.28	230–390 (7) 250	190–290 (7) 270	<4.0 (7) --	380–460 (7) 400
Domestic wells near Elba lead											
	Baseline (April 1996)	360–810 (3) --	6.3–7.0 (3) --	12–16 (3) --	0.02–1.1 (3) --	0.15–6.1 (3) --	0.07–7.5 (3) --	120–260 (3) --	100–220 (3) --	<4.0 (3) --	200–480 (3) --