

Summary of water-quality data near and associated with artificial recharge sites, February 1995 through December 2005. All values reported as average concentrations, except samples collected on 5/13/1997 at the Halstead Recharge Site, which are two individual sample results. [mg/L; milligrams per liter; mg/L as N, milligrams per liter as Nitrogen; µg/L, micrograms per liter; cols/100 mL, colonies per 100 mL; DWA, Drinking Water Advisory, SDWR, Secondary drinking water regulation; MCL, Maximum Contaminant Level; MCLG, Maximum Contaminant Level Goal; --, not determined; <, less than]

Water-quality monitoring sites near artificial recharge sites

	Data reporting period	Sodium (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	Nitrite plus Nitrate as Nitrogen (mg/L as N)	Arsenic (µg/L)	Iron (µg/L)	Manganese (µg/L)	Atrazine (µg/L)	Alachlor (µg/L)	Total Coliform Bacteria (cols/100 mL)
Drinking Water Criteria		20 mg/L (DWA)	250 mg/L (SDWR)	250 mg/L (SDWR)	10 mg/L (MCL)	10 µg/L (MCL)	300 µg/L (SDWR)	50 µg/L (SDWR)	3 µg/L as an annual average (MCL)	2 µg/L (MCL)	0 cols/100 mL (MCL)
Background monitoring wells located near the Halstead Recharge site	02/95 -12/02	39	41	31	1.8	7.9	880	268	0.04	--	10
Background monitoring Wells located near the Sedgwick Recharge site	02/95 -12/02	58	190	30	7.9	not sampled	2140	49	0.09	--	9
Background wells near Little Arkansas River	02/95-12/05	43	57	21	0.84	6.2	570	320	0.04	0.004	10

Water-quality monitoring sites associated with artificial recharge activities

Average Concentrations Before Artificial Recharge Activities											
Halstead Recharge Site											
Diverted recharge water	--	--	--	--	--	--	--	--	--	--	--
Shallow wells	05/13/97	40, 150	9.9, 19	20, 290	1.7, 7.0	1.0,1.7	<5, 11	20, 68	0.03, 0.14	--	<1, 1
Deep wells	05/13/97	29, 31	26, 30	5.8, 8.3	<0.02, <0.02	8.3,11	7.9, 300	210, 260	<0.001, 0.01	--	<1, 2
Sedgwick Recharge Site											
Treated diverted recharge water	--	--	--	--	--	--	--	--	--	--	--
Shallow wells	6/97-2/98	32	150	11	8.0	<1.0-2.7	260	45	0.01	--	2
Deep wells	6/97-2/98	85	56	63	0.8	3.2-4.2	<5	210	<0.05	--	<1
Diversion Well Site											
Shallow wells located less than 500 feet from Little Arkansas River	2/95-3/96	93	16	140	<0.02	1.4	2300	1700	0.08	--	<1
Shallow wells located more than 500 feet from Little Arkansas River	--	--	--	--	--	--	--	--	--	--	--
Deep monitoring well	2/95-3/96	51	39	14-15	<0.02	21,22	<5	450	<0.001, 0.004	--	<1
Average Concentrations After Artificial Recharge Activities											
Halstead Recharge Site											
Diverted recharge water	4/96- 12/02	66	68	59	0.03	19.8	459	743	0.69	--	1
Shallow wells	5/97-12/05	71	57	77	3.4	2.0	5.7	5.7	0.07	0.003	3
Deep wells	5/97-12/05	60	63	52	0.11	14	511	584	0.04	0.002	2
Sedgwick Recharge Site											
Treated diverted recharge water	4/98- 12/01	46	37	78	1.0	4.1	5.2	23	0.51	0.04	218
Shallow wells	4/98-12/05	40	75	48	5.1	1.0	12	6.2	0.07	0.004	5
Deep wells	4/98-12/05	78	51	45	1.8	3.5	7.9	192	0.002	0.002	1
Diversion Well Site											
Shallow wells located less than 500 feet from Little Arkansas River	4/96-12/05	89	17	152	0.03	1.4	2,300	1,800	0.15	0.01	2
Shallow wells located more than 500 feet from Little Arkansas River	4/96-12/05	56	78	32	0.03	22	369	753	0.002	0.002	1
Deep monitoring well	4/96-12/05	63	36	54	0.02	30	288	576	0.07	0.003	3