

Table 5.--Quality of irrigation-return flow entering drain wells

Well number	Date of sample	Instantaneous discharge (ft <sup>3</sup> /s)	Dissolved silica (SiO <sub>2</sub> ) (mg/l)	Dissolved calcium (Ca) (mg/l)	Dissolved magnesium (Mg) (mg/l)	Dissolved sodium (Na) (mg/l)	Dissolved potassium (K) (mg/l)	Bicarbonate (HCO <sub>3</sub> ) (mg/l)	Carbonate (CO <sub>3</sub> ) (mg/l)	Dissolved sulfate (SO <sub>4</sub> ) (mg/l)	Dissolved chloride (Cl) (mg/l)	Dissolved fluoride (F) (mg/l)	Total nitrite plus nitrate (N) (mg/l)	Dissolved nitrite plus nitrate (N) (mg/l)	Total Kjeldahl nitrogen (N) (mg/l)	Total nitrogen (N) (mg/l)	Total phosphorus (P) (mg/l)	Dissolved orthophosphorus (P) (mg/l)	Hardness (Ca, Mg) (mg/l)	Non-carbonate hardness (mg/l)	Specific conductance (µmhos)	pH (units)	Temperature (°C)	Turbidity (JTU)	Immediate coliform (col/100 ml)	Fecal coliform (col/100 ml)	Fecal streptococci (col/100 ml)	Total organic carbon (C) (mg/l)	Suspended sediment (mg/l)
05S-15E-19ddb1	73-08-73	E.30	18	49	16	22	7.9	215	0	41	21	.8	.03	.06	5.4	5.4	.67	.12	190	12	473	7.5	27.5	50	B4,500	B10,000	B6,000	11	10
05S-15E-29bcc1	72-06-15	E.10	19	35	9.2	9.1	6.7	154	0	15	6.2	.5	---	---	.56	.63	.52	.29	130	0	295	7.1	23.5	6	12,000	4,000	5,400	11	10
	73-01-16	E.01	---	---	---	---	---	---	---	---	---	---	.02	---	16	16	---	---	---	---	710	---	1.0	---	---	---	---	---	---
	73-01-16	<.01	---	---	---	---	---	---	---	---	---	---	.07	---	50	50	---	---	---	---	1,430	---	---	---	---	---	---	---	---
	73-01-16	<.01	---	---	---	---	---	---	---	---	---	---	.17	---	.95	1.1	---	---	---	---	---	---	---	---	---	---	---	---	---
	73-01-16	.01	---	---	---	---	---	---	---	---	---	---	.66	---	1.7	2.4	---	---	---	---	396	---	---	---	---	---	---	---	---
05S-17E-35cdb1	73-04-17	.01	---	---	---	---	---	---	---	110	43	---	---	9.8	---	---	---	4.6	---	---	713	---	---	1,700	---	---	---	---	---
06S-13E-04cdd1	73-09-18	E.10	7.1	43	17	26	6.1	190	0	46	23	.6	.01	.01	.61	.62	.12	.00	180	22	466	7.8	17.5	12	21,000	500	1,600	---	4,575
06S-14E-24bcc1	72-07-25	E.50	4.6	43	12	15	3.4	175	0	31	13	.6	.15	.15	1.4	1.6	.11	.04	160	13	369	8.2	25.5	77	B4,000	B150	B16,000	1.0	278
06S-15E-31cbc1	72-07-25	E.12	---	---	---	---	---	---	---	---	---	---	---	.37	---	---	.10	---	---	---	368	---	29.0	6	700	160	---	.0	15
07S-13E-26aaa1	72-12-20	E1.0	---	45	30	35	15	---	---	---	22	---	---	.82	1.8	2.6	.49	---	240	---	623	---	1.0	100	B11,000	120	B21,000	---	2
	73-10-15	E.75	---	---	---	---	---	---	---	33	15	---	---	.20	---	---	.16	---	---	---	494	---	16.0	---	B24,000	B230	B3,900	---	274
07S-17E-11cda1	72-06-22	E.50	17	46	13	14	6.4	187	0	36	16	.7	---	.01	.83	.84	.44	.25	170	15	412	7.4	23.5	10	23,000	800	E10,000	6.5	24
07S-17E-15bcc1	72-06-22	E1.3	8.6	44	12	13	2.9	173	0	35	14	.7	---	.01	.34	.35	.08	.01	160	17	---	7.9	24.0	4	1,600	E250	E3,500	7.5	10
	72-06-22	.70	9.2	45	12	13	3.6	177	0	36	14	.7	---	.00	.80	---	.31	.04	160	17	380	7.8	22.5	50	1,400	170	E10,000	5.5	173
07S-17E-16baa1	73-08-03	E2.8	10	46	16	19	4.0	189	0	42	19	.6	.06	.06	3.6	3.7	.15	.04	180	26	428	7.9	21.5	5	B20,000	340	10,000	---	39
07S-17E-32ada1	72-06-30	E.70	5.7	35	12	15	2.9	147	0	35	12	.8	---	.02	.34	.36	.06	.01	140	16	343	7.4	27.0	1	14,000	820	3,000	3.5	1
07S-17E-36bbd1	72-09-22	E.20	9.5	43	13	14	3.5	177	0	33	13	.6	---	.02	.30	.32	.10	.03	160	16	---	8.4	21.0	8	20,000	E270	E20,000	4.5	20
	72-09-22	E.20	4.0	43	15	19	6.1	191	0	37	18	.7	---	.01	.56	.57	.37	.20	170	12	424	7.8	13.5	---	E54,000	E450	E7,400	2.5	2
07S-17E-36bbd2	72-09-22	<.10	---	---	---	---	---	---	---	---	---	---	---	.03	.35	.38	---	---	---	---	420	---	---	---	E49,000	E400	E7,400	---	---
07S-18E-19acc1	72-10-03	E.75	4.7	39	15	19	4.9	176	0	38	20	.8	---	.01	.99	1.0	.19	.10	160	15	408	7.8	19.5	3	>1,400	1,200	2,800	7.0	2
07S-24E-26ddd1	73-06-26	2.2	---	---	---	---	---	---	---	57	60	---	---	.49	---	---	---	.03	---	---	577	---	17.5	8	---	---	---	---	13
07S-25E-32dab1	73-06-26	E.20	---	---	---	---	---	---	---	40	33	---	---	.36	---	---	---	.06	---	---	453	---	15.0	---	---	---	---	---	---
08S-15E-11ccc1	72-09-21	E.27	8.4	43	14	19	5.8	183	0	37	19	.7	---	.01	.71	---	.29	.11	160	15	---	7.6	20.5	---	200,000	E20,000	E18,000	9.5	1
08S-15E-11dcd1	72-09-21	E.60	---	---	---	---	---	---	---	---	---	---	---	.02	.94	.96	---	---	---	---	417	---	18.0	---	E13,000	E3,200	E14,000	---	---
08S-15E-13aba1	72-10-04	E.20	.4	39	15	19	4.0	178	0	37	19	.7	---	.00	.64	.64	.07	.02	160	13	408	7.6	11.5	3	1,200	E77	2,600	5.0	4
	73-05-08	.67	17	48	16	23	10	206	0	43	22	.9	.29	.69	.45	.74	---	.71	190	17	379	7.6	15.5	---	---	---	---	---	---
	73-05-10	.03	---	---	---	---	---	216	0	50	22	---	.06	.02	1.2	1.3	.94	.73	---	---	470	7.3	14.5	7	4,100	310	2,200	---	7
	73-06-27	.03	---	---	---	---	---	---	---	42	19	---	---	.00	---	---	---	.29	---	---	400	---	28.0	---	---	---	---	---	---
	73-08-02	.22	17	46	16	20	6.0	199	0	41	21	.7	.00	.00	4.6	4.6	.27	.14	180	18	453	7.5	22.0	2	6,000	B8	380	9.0	4
08S-15E-14aba1	73-09-18	.29	15	49	18	26	6.9	217	0	47	24	.6	.01	.01	.73	.74	.31	.19	200	18	493	8.0	19.0	---	30,000	B3,300	15,000	---	3
08S-16E-16cbc1	72-06-28	E.20	9.0	39	12	15	4.3	169	0	34	14	.7	---	.06	.73	.79	.17	.02	150	8	339	8.9	32.5	16	2,200	400	24,000	---	---
08S-16E-33ccd1	72-10-03	E.20	5.5	45	15	21	7.3	198	0	40	22	.8	---	.00	.96	.96	.36	.23	170	12	451	7.6	18.0	3	10,000	68	1,100	4.5	27
	72-10-03	E.20	---	---	---	---	---	---	---	40	22	.8	---	.00	.96	.96	.36	.23	170	12	451	7.6	18.0	3	B10,000	B1,000	28,000	9.0	3
08S-19E-34aaa2	72-10-04	E.16	---	---	---	---	---	---	---	---	---	---	---	.00	.25	.25	.14	---	---	---	420	---	11.5	5	3,200	B840	2,000	---	6
	73-01-16	E.14	---	---	---	---	---	---	---	---	---	---	1.4	---	5.8	7.2	---	---	---	---	556	---	2.0	---	---	---	---	---	---
08S-19E-34dad1	72-10-04	E.04	---	---	---	---	---	---	---	---	---	---	---	.10	1.2	1.3	.14	---	---	---	427	---	9.0	5	B1,400	B50	3,100	---	13
08S-23E-08dcb1	72-05-11	.04	---	---	---	---	---	---	---	---	---	---	---	1.2	---	---	---	---	---	---	917	---	20.5	---	---	---	---	---	---
08S-23E-27cca1	72-05-10	E.80	35	76	30	53	8.1	278	0	84	86	.4	---	3.8	.38	4.2	.51	---	310	85	885	8.2	9.0	110	E30	E4	>160	---	313
08S-23E-28dcc1	73-05-09	<.01	---	---	---	---	---	---	---	7.2	2.0	---	---	.87	---	---	---	.33	---	---	126	---	14.0	---	---	---	---	---	---
08S-25E-20bdb1	72-07-26	4.5	---	44	21	41	7.1	138	26	59	57	.7	---	.20	.43	.63	.08	.06	200	40	565	8.8	21.0	2	2,700	110	E520	1.0	2
	72-09-21	.44	24	47	21	36	7.9	203	0	60	50	.7	---	.28	---	---	.41	.07	200	37	591	7.5	12.0	---	48,000	7,000	7,600	7.0	78
	73-07-24	9.5	---	---	---	---	---	---	---	52	44	---	---	.67	---	---	---	.09	---	---	509	---	19.5	---	---	---	---	---	---
	73-09-19	.98	27	43	21	39	7.4	168	13	57	55	.6	.04	.03	.58	.62	.11	.08	190	34	549	8.8	14.0	---	22,000	540	5,300	---	1
08S-25E-29bdd1	73-03-08	<.01	---	---	---	---	---	---	---	---	13	---	.26	---	2.4	2.7	1.1	.55	---	---	345	---	5.5	---	---	---	---	---	---
	73-07-24	E2.0	---	---	---	---	---	---	---	53	44	---	---	.70	---	---	---	.10	---	---	517	---	17.0	245	---	---	---	---	---
09S-18E-03ddb2	72-06-29	E2.0	11	49	14	15	5.2	206	0	36	15	.6	---	.05	.41	.46	.35	.28	180	11	411	8.0	27.0	4	20,000	E120	3,900	---	145
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