

Table 9. General water-quality parameters measured or calculated in ground-water samples from the Southern Sacramento Valley Ground-Water Ambient Monitoring and Assessment (GAMA) study unit, California, 2005.

[The five digit USGS parameter code is used in the USGS's computerized data system, the National Water Information System, to uniquely identify a specific constituent or property. An asterisk (*) in front of a number in the table indicates a concentration higher than the threshold. "DD" following a site area name in the first column indicates "depth dependent." "FP" following a site area name in the first column indicates "flowpath." av, averaged value; C, Celsius; e, estimated value; GAMA, Ground-Water Ambient Monitoring and Assessment; MCL-CA, California Department of Health Services Maximum Contaminant Level; SMCL-US, U.S. Environmental Protection Agency Secondary Maximum Contaminant Level; SMCL-CA, California Secondary Maximum Contaminant Level; mg/L, milligram per liter; na, not available; NAM, North American; ns, no sample; NTU, nephelometric turbidity units; QPC, Uplands; SAM, South American; SMCL, Secondary Maximum Contaminant Level; SOL, Solano; SUI, Suisun-Fairfield; USGS, U.S. Geological Survey; YOL, Yolo; $\mu\text{S}/\text{cm}$, microsiemens per centimeter; —, not detected]

GAMA sample identification number	Dissolved oxygen (mg/L)	pH, Standard units (field)	pH, Standard units (laboratory)	Specific conductance, $\mu\text{S}/\text{cm}$ at 25°C (field)	Specific conductance, $\mu\text{S}/\text{cm}$ at 25°C (laboratory)	Total dissolved solids (residue on evaporation) (mg/L)	Total dissolved solids (sum of constituents) (mg/L)	Water temperature, °C	Total hardness, as CaCO_3 (mg/L)	Alkalinity, dissolved, as CaCO_3 (mg/L)	Bicarbonate, dissolved, as HCO_3 (mg/L)	Carbonate, dissolved, as CO_3 (mg/L)	Turbidity, NTU
USGS parameter code	00300	00400	00403	00095	90095	70300	70301	00010	00900	29802	63786	63788	63676
Threshold	na	6.5–8.5	6.5–8.5	900 (1,600)	900 (1,600)	500 (1,000)	500 (1,000)	na	na	na	na	na	5
Threshold type	na	SMCL-US	SMCL-US	SMCL-CA ¹	SMCL-CA ¹	SMCL-CA ¹	SMCL-CA ¹	na	na	na	na	na	MCL-CA
Grid wells													
NAM-01	ns	ns	8	*1,050	*1,030	*666	*654	18.5	150	ns	ns	ns	ns
NAM-02	ns	ns	7.5	482	443	336	331	19.0	160	ns	ns	ns	ns
NAM-03	ns	ns	ns	382	ns	ns	ns	21.0	ns	ns	ns	ns	ns
NAM-04	ns	ns	ns	243	ns	ns	ns	19.5	ns	ns	ns	ns	ns
NAM-05	ns	ns	7.5	388	370	275	280	22.0	110	ns	ns	ns	ns
NAM-06	—	*8.8	*8.6	367	336	242	241	20.5	75	av144	av165	av5	2.5
NAM-07	ns	ns	ns	264	ns	ns	ns	20.0	ns	ns	ns	ns	ns
NAM-08	ns	ns	7.4	517	484	359	351	19.0	200	ns	ns	ns	ns
NAM-09	ns	ns	ns	616	ns	ns	ns	19.0	ns	ns	ns	ns	ns
NAM-10	ns	ns	ns	441	ns	ns	ns	19.5	ns	ns	ns	ns	ns
NAM-11	ns	ns	ns	369	ns	ns	ns	19.0	ns	ns	ns	ns	ns
QPC-01	ns	ns	ns	135	ns	ns	ns	18.0	ns	ns	ns	ns	ns
QPC-02	ns	ns	E7.1	356	331	259	271	20.0	110	ns	ns	ns	ns
QPC-03	ns	ns	ns	321	ns	ns	ns	20.5	ns	ns	ns	ns	ns
QPC-04	ns	ns	ns	615	ns	ns	ns	19.0	ns	ns	ns	ns	ns
QPC-05	ns	ns	7.7	200	170	159	155	19.5	75	ns	ns	ns	ns
QPC-06	8.6	7	7.2	404	379	289	299	20.0	150	av104	av127	—	0.2
QPC-07	4.7	7	7	604	570	408	408	20.0	150	av136	av165	—	0.4
QPC-08	ns	ns	7.2	383	354	286	293	20.5	74	ns	ns	ns	ns
QPC-09	ns	ns	7.4	152	152	147	155	ns	54	ns	ns	ns	ns
QPC-10	ns	ns	ns	161	ns	ns	ns	20.0	ns	ns	ns	ns	ns
QPC-11	ns	ns	ns	220	ns	ns	ns	17.0	ns	ns	ns	ns	ns

¹The SMCL-CA has recommended and upper threshold values. The upper value is shown in parentheses.

Table 9. General water-quality parameters measured or calculated in ground-water samples from the Southern Sacramento Valley Ground-Water Ambient Monitoring and Assessment (GAMA) study unit, California, 2005—Continued.

[The five digit USGS parameter code is used in the USGS's computerized data system, the National Water Information System, to uniquely identify a specific constituent or property. An asterisk (*) in front of a number in the table indicates a concentration higher than the threshold. "DD" following a site area name in the first column indicates "depth dependent." "FP" following a site area name in the first column indicates "flowpath." av, averaged value; C, Celsius; e, estimated value; GAMA, Ground-Water Ambient Monitoring and Assessment; MCL-CA, California Department of Health Services Maximum Contaminant Level; SMCL-US, U.S. Environmental Protection Agency Secondary Maximum Contaminant Level; SMCL-CA, California Secondary Maximum Contaminant Level; mg/L, milligram per liter; na, not available; NAM, North American; ns, no sample; NTU, nephelometric turbidity units; QPC, Uplands; SAM, South American; SMCL, Secondary Maximum Contaminant Level; SOL, Solano; SUI, Suisun-Fairfield; USGS, U.S. Geological Survey; YOL, Yolo; $\mu\text{S}/\text{cm}$, microsiemens per centimeter; —, not detected]

GAMA sample identification number	Dissolved oxygen (mg/L)	pH, Standard units (field)	pH, Standard units (laboratory)	Specific conductance, $\mu\text{S}/\text{cm}$ at 25°C (field)	Specific conductance, $\mu\text{S}/\text{cm}$ at 25°C (laboratory)	Total dissolved solids (residue on evaporation) (mg/L)	Total dissolved solids (sum of constituents) (mg/L)	Water temperature, °C	Total hardness, as CaCO_3 (mg/L)	Alkalinity, dissolved, as CaCO_3 (mg/L)	Bicarbonate, dissolved, as HCO_3 (mg/L)	Carbonate, dissolved, as CO_3 (mg/L)	Turbidity, NTU
USGS parameter code	00300	00400	00403	00095	90095	70300	70301	00010	00900	29802	63786	63788	63676
Threshold	na	6.5–8.5	6.5–8.5	900 (1,600)	900 (1,600)	500 (1,000)	500 (1,000)	na	na	na	na	na	5
Threshold type	na	SMCL-US	SMCL-US	SMCL-CA ¹	SMCL-CA ¹	SMCL-CA ¹	SMCL-CA ¹	na	na	na	na	na	MCL-CA
SAM-01	ns	ns	ns	367	ns	ns	ns	20.0	ns	ns	ns	ns	ns
SAM-02	ns	ns	7.2	433	394	279	301	20.0	190	ns	ns	ns	ns
SAM-03	ns	ns	7.9	276	267	195	195	16.0	130	ns	ns	ns	ns
SAM-04	ns	ns	ns	267	ns	ns	ns	19.5	ns	ns	ns	ns	ns
SAM-05	ns	ns	ns	215	ns	ns	ns	21.0	ns	ns	ns	ns	ns
SAM-06	ns	ns	ns	184	ns	ns	ns	21.0	ns	ns	ns	ns	ns
SAM-07	ns	ns	7.7	441	390	269	283	19.0	190	ns	ns	ns	ns
SAM-08	ns	ns	ns	413	ns	ns	ns	18.0	ns	ns	ns	ns	ns
SAM0-9	ns	ns	ns	236	ns	ns	ns	20.0	ns	ns	ns	ns	ns
SAM-10	ns	ns	ns	590	ns	ns	ns	18.5	ns	ns	ns	ns	ns
SAM-11	ns	ns	7.6	220	206	176	180	19.5	81	ns	ns	ns	ns
SAM-12	ns	ns	ns	521	ns	ns	ns	18.5	ns	ns	ns	ns	ns
SOL-01	ns	ns	8.3	678	647	418	423	19.0	51	ns	ns	ns	ns
SOL-02	ns	ns	ns	677	ns	ns	ns	19.0	ns	ns	ns	ns	ns
SOL-03	ns	ns	7.6	519	507	358	363	19.5	200	ns	ns	ns	ns
SOL-04	ns	ns	ns	692	ns	ns	ns	17.5	ns	ns	ns	ns	ns
SOL-05	ns	ns	ns	343	ns	ns	ns	16.5	ns	ns	ns	ns	ns
SOL-06	ns	ns	7.8	*1,230	*1,130	*707	*682	19.5	150	ns	ns	ns	ns
SOL-07	ns	ns	ns	440	ns	ns	ns	18.0	ns	ns	ns	ns	ns
SOL-08	ns	ns	ns	443	ns	ns	ns	26.0	ns	ns	ns	ns	ns
SOL-09	ns	ns	ns	*965	ns	ns	ns	18.5	ns	ns	ns	ns	ns
SOL-10	ns	ns	ns	578	ns	ns	ns	19.0	ns	ns	ns	ns	ns
SOL-11	ns	ns	ns	*1,230	ns	ns	ns	19.5	ns	ns	ns	ns	ns
SOL-12	ns	ns	ns	723	ns	ns	ns	18.0	ns	ns	ns	ns	ns

¹The SMCL-CA has recommended an upper threshold value. The upper value is shown in parentheses.

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GAMA sample identification number	Dissolved oxygen (mg/L)	pH, Standard units (field)	pH, Standard units (laboratory)	Specific conductance, $\mu\text{S}/\text{cm}$ at 25°C (field)	Specific conductance, $\mu\text{S}/\text{cm}$ at 25°C (laboratory)	Total dissolved solids (residue on evaporation) (mg/L)	Total dissolved solids (sum of constituents) (mg/L)	Water temperature, °C	Total hardness, as CaCO_3 (mg/L)	Alkalinity, dissolved, as CaCO_3 (mg/L)	Bicarbonate, dissolved, as HCO_3 (mg/L)	Carbonate, dissolved, as CO_3 (mg/L)	Turbidity, NTU
USGS parameter code	00300	00400	00403	00095	90095	70300	70301	00010	00900	29802	63786	63788	63676
Threshold	na	6.5–8.5	6.5–8.5	900 (1,600)	900 (1,600)	500 (1,000)	500 (1,000)	na	na	na	na	na	5
Threshold type	na	SMCL-US	SMCL-US	SMCL-CA ¹	SMCL-CA ¹	SMCL-CA ¹	SMCL-CA ¹	na	na	na	na	na	MCL-CA
SOL-13	ns	ns	ns	*1,490	ns	ns	ns	18.5	ns	ns	ns	ns	ns
SUI-01	ns	ns	7.6	*1,090	*1,080	*637	*644	17.0	310	ns	ns	ns	ns
SUI-02	ns	ns	8.2	*1,300	*1,300	*759	*706	19.5	57	ns	ns	ns	ns
SUI-03	ns	ns	ns	712	ns	ns	ns	20.0	ns	ns	ns	ns	ns
SUI-04	ns	ns	ns	*994	ns	ns	ns	19.5	ns	ns	ns	ns	ns
SUI-05	ns	ns	ns	859	ns	ns	ns	18.5	ns	ns	ns	ns	ns
YOL-01	ns	ns	ns	883	ns	ns	ns	20.0	ns	ns	ns	ns	ns
YOL-02	ns	ns	7.6	*1,270	*1,280	*808	*809	18.0	530	ns	ns	ns	ns
YOL-03	0.2	8.2	8.2	535	505	326	328	25.0	110	av204	av243	av2	0.3
YOL-04	4.9	7.4	7.5	810	789	490	489	18.5	410	av365	av443	av1	0.1
YOL-05	ns	ns	ns	574	ns	ns	ns	21.0	ns	ns	ns	ns	ns
YOL-06	ns	ns	8	819	701	441	431	20.5	170	ns	ns	ns	ns
YOL-07	ns	ns	ns	*1,340	ns	ns	ns	19.0	ns	ns	ns	ns	ns
YOL-08	0.2	8.2	8.2	696	634	430	434	19.0	60	av234	av279	av3	0.1
YOL-09	ns	ns	8.1	168	156	122	125	15.5	49	ns	ns	ns	ns
YOL-10	ns	ns	ns	*1,010	ns	ns	ns	18.5	ns	ns	ns	ns	ns
YOL-11	ns	ns	ns	692	ns	ns	ns	19.0	ns	ns	ns	ns	ns
YOL-12	ns	ns	ns	*2,360	ns	ns	ns	19.0	ns	ns	ns	ns	ns
YOL-13	ns	ns	7.5	676	627	408	401	20.0	250	ns	ns	ns	ns
YOL-14	—	6.3	7.6	*1,240	*1,400	*888	*788	19.0	320	av169	E204	—	0.5
YOL-15	ns	ns	ns	480	ns	ns	ns	19.0	ns	ns	ns	ns	ns

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USGS parameter code	00300	00400	00403	00095	90095	70300	70301	00010	00900	29802	63786	63788	63676
Threshold	na	6.5–8.5	6.5–8.5	900 (1,600)	900 (1,600)	500 (1,000)	500 (1,000)	na	na	na	na	na	5
Threshold type	na	SMCL-US	SMCL-US	SMCL-CA ¹	SMCL-CA ¹	SMCL-CA ¹	SMCL-CA ¹	na	na	na	na	na	MCL-CA
Nongrid wells													
QPCFP-01	4.9	6.9	E6.1	415	410	313	315	22.0	110	av115	av140	—	2.9
QPCFP-02	7.2	7	7.1	250	234	226	222	23.0	88	av74.0	av90	—	*6.2
QPCFP-03	ns	ns	7.1	429	397	303	306	19.5	110	ns	ns	ns	ns
QPCFP-04	ns	ns	7.2	259	242	209	222	21.0	86	ns	ns	ns	ns
NAMFP-05	—	8.5	8.4	*1,150	*1,100	*632	*641	19.0	100	av139	E164	E3	1.6
NAMFP-06	—	8.3	8.2	725	656	426	431	19.5	46	av185	av220	av3	2.2
NAMFP-07	—	8.2	8.3	800	756	495	*500	18.5	46	av268	av318	av5	1.7
NAMFP-08	—	8	8.1	*1,100	*1,050	*636	*656	19.0	180	av337	av404	av3	0.5
NAMFP-09	—	7.9	8	378	339	246	258	20.5	78	av159	av191	av1	ns
NAMFP-10	—	8	7.9	372	344	226	242	20.5	99	av150	av180	av1	0.7
NAMFP-11	ns	ns	ns	244	ns	ns	ns	19.5	ns	ns	ns	ns	ns
YOLFP-12	0.5	8.1	8.1	537	484	330	336	22.0	140	av226	av271	av2	0.1
YOLFP-13	3.7	7.7	7.8	883	852	*529	*528	19.0	360	av395	av478	av2	0.1
YOLFP-14	6.0	7.4	7.5	686	626	411	412	19.5	320	av262	av319	—	0.1
YOLFP-15	9.3	7.8	7.9	437	404	267	271	21.0	170	av158	av191	—	0.1
NAMFP-16	2.0	7.4	7.7	225	224	198	200	20.0	82	av97.9	E119	—	0.2
Depth-dependent samples													
NAMDD-01	ns	7.6	8	262	225	207	203	ns	86	ns	ns	ns	ns
NAMDD-02	ns	7.6	8.2	262	218	210	203	ns	85	ns	ns	ns	ns
NAMDD-03	ns	7.9	8	260	223	211	198	ns	84	ns	ns	ns	ns
NAMDD-04	ns	7.9	8.1	251	224	206	196	ns	80	ns	ns	ns	ns

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