

Table 7. Quality-control summary of replicate samples for constituents collected for the Monterey Bay and Salinas Valley Ground-Water Ambient Monitoring and Assessment (GAMA) study, California, July to October 2005.

[E, estimated value; mg/L, milligram per liter; µg/L, microgram per liter; na, not available; pCi/L, picocurie per liter; TU, tritium unit; <, less than]

Constituent	Number of relative standard deviations greater than 20 percent/ number of replicate pairs	Maximum relative standard deviation (percent)	Environmental value; replicate value
Volatile organic compounds, gasoline oxygenates and additives from schedules 2020 and 4204			
Carbon disulfide (µg/L)	1/8	121	< 0.04; 0.13
All additional VOCs from schedule 2020 and 4024	0/8	< 20	na
Pesticides and pesticide degradates from schedules 2003 and 2060			
Caffeine (µg/L)	1/3	66	E 0.004; E 0.011
All additional pesticides and pesticide degradates from schedule 2003	0/8	< 20	na
All additional pesticides and pesticide degradates from schedule 2060	0/3	< 20	na
Constituents of special interest¹			
Perchlorate, 1,2,3-Trichloropropane, and <i>N</i> -Nitrosodimethylamine	0/1	< 20	na
Major ions, minor ions, trace elements, and nutrients			
Dissolved organic carbon (mg/L)	1/3	28	E 0.2; E 0.3
Arsenic (µg/L)	1/3	28	0.2; 0.3
Iron (µg/L)	1/3	70	18; E 6
Manganese (µg/L)	1/3	28	0.6; 0.4
Zinc (µg/L)	1/3	110	6.5; 0.8
All additional major ions, minor ions, trace elements, and nutrients from schedules 1948 and 2755	0/3	< 20	na
Isotopes, radioactivity, and noble gases			
Radium-226 ² (pCi/L)	1/2	75	0.02; 0.064
Radium-228 ² (pCi/L)	1/2	25	0.158; 0.110
Tritium ³ (TU)	1/6	32	1.5; 2.3
Tritium ⁴ (TU)	1/8	44	1.0; 1.9
Alpha radioactivity, 72-hour count ² (pCi/L)	1/2	141	0.02; 0.00
Beta radioactivity, 72-hour count ² (pCi/L)	1/2	22	3.7; 5.0
All additional isotopes, radioactivity, and (noble gases) ³	0/2 (0/9)	< 20	na
Microbial indicators			
F-specific and somatic coliphage	0/2	< 20	na
E. Coli, and total coliforms	0/30	< 20	na

¹Analyses performed at Montgomery Watson-Harza Laboratories, Monrovia, California.²Analyses performed at Eberline Analytical Services, Richmond, California.³Analyses performed at Lawrence Livermore National Laboratory, Livermore, California.⁴Analyses performed at U.S. Geological Survey, Menlo Park, California.