

Table A4B. Quality-control summary for replicate analyses of major and minor ions and nutrients detected in samples collected for the Southern Sierra Groundwater Ambient Monitoring and Assessment (GAMA) study, California, June 2006.

[RSD, relative standard deviation in percent; mg/L, milligrams per liter]

Constituent	Number of RSDs greater than zero/ number of replicates	Maximum RSD (percent)	Median RSD (percent)	Concentrations for replicates with RSD greater than zero (environmental/ replicate) (mg/L)
Major and minor ions				
Calcium	3/3	2.2	0.1	(42.5, 41.2), (56.3, 56.2), (66.5, 66.6)
Magnesium	3/3	2.1	1.4	(6.95, 6.75), (15.2, 15.5), (9.06, 9.08)
Potassium	3/3	1.6	1.5	(1.36, 1.39), (3.40, 3.48), (0.78, 0.77)
Sodium	3/3	1.8	0.4	(35.4, 34.5), (24.1, 24.0), (33.1, 33.3)
Bromide	0/0	0	0	
Chloride	2/3	0.5	0.4	(14.7, 14.8), (17.7, 17.8)
Fluoride	1/3	20	0	(0.4, 0.3)
Iodide	0/1	0	0	
Sulfate	1/3	0.2	0	(45.4, 45.5)
Silica	2/3	0.3	0.2	(46.7, 46.6), (23.9, 24.0)
Total dissolved solids	1/3	0.3	0	(256, 257)
Residue on evaporation	2/3	0.5	0.4	(266, 264), (341, 343)
Nutrients and dissolved organic carbon				
Dissolved organic carbon	2/3	28	20	(0.3, 0.2), (0.4, 0.3)
Phosphorus	1/3	3.4	0	(0.21, 0.20)
Total nitrogen	3/3	3.8	1.3	(1.89, 1.90), (3.42, 3.36), (5.31, 5.60)
Nitrate plus nitrite	2/3	0.5	0.4	(1.75, 1.76), (5.44, 5.40)
Ammonia	0/3	0	0	
Nitrite	0/3	0	0	