

Table 6. Quality-control summary for constituents detected in field blanks and ground-water samples collected for 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. GAMA, Ground-Water Ambient Monitoring and Assessment; GC/MS, gas chromatography/mass spectrometry; mg/L, milligram per liter; N, nitrogen; na, not available; NPR, National Research Program (USGS); USGS, U.S. Geological Survey; µg/L, microgram per liter; —, all detections]

| Constituent | USGS parameter code | Reporting level | Censoring level | Censored sample groups | Minimum detection in ground water in this study | Maximum detection in a field blank |
|---|---------------------|-----------------|-----------------|-------------------------------|---|------------------------------------|
| Volatile organic compounds and gasoline oxygenates | | | | | | |
| 1,3- and 1,4-Dimethylbenzene, µg/L | 85795 | 0.060 | 1.165 | slow, depth dependent | 0.03 | 1.15 |
| Toluene, µg/L | 34010 | 0.020 | 0.695 | all | 0.02 | 0.69 |
| Tentatively identified organic compounds ¹ | | | | | | |
| Hexafluoropropene, µg/L | na | 0.1 | all | depth dependent | 0.3 | 0.3 |
| Pesticide compounds | | | | | | |
| Benfluralin, µg/L | 82673 | 0.01 | 0.01 | all | 0.007 | 0.006 |
| DCPA, µg/L | 82682 | 0.003 | 0.003 | all | 0.002 | 0.002 |
| Oxyamyl, µg/L | 38866 | 0.03 | — | monitoring wells ² | 0.01 | 0.01 |
| Trifluralin, µg/L | 82661 | 0.009 | 0.007 | all | 0.006 | 0.005 |
| Trace elements | | | | | | |
| Antimony, µg/L | 01095 | 0.2 | 0.2 | depth dependent | 0.1 | 0.1 |
| Cadmium, µg/L | 01025 | 0.04 | 0.07 | slow | 0.02 | 0.05 |
| Chromium(Total), µg/L, NRP | 01030 | 0.1 | 8.4 | all | 0.7 | 8.4 |
| Chromium(VI), µg/L | 01032 | 0.1 | 8.2 | all | 0.5 | 8.2 |
| Fluoride, µg/L | 00950 | 0.1 | 0.4 | depth dependent | 0.06 | 0.35 |
| Lead, µg/L | 01049 | 0.08 | 15.4 | all | 0.04 | 15.4 |
| Nutrients and dissolved organic carbon | | | | | | |
| Dissolved organic carbon, mg/L | 00681 | 0.33 | 0.56 | all | 0.2 | 0.4 |
| Nitrogen(Total), mg/L as N | 62854 | 0.06 | 0.09 | depth dependent | 0.06 | 0.06 |

¹Tentatively identified organic compounds (TIOCs) are based on comparison with the National Institute for Standards and Technology's (NIST) library spectra and examination by a GC/MS analyst. Reported concentrations are approximate.

²Bennett, G.L., V, Fram, M.S., and Belitz, Kenneth, 2011, Status of groundwater quality in the Southern, Middle, and Northern Sacramento Valley study units, 2005–08—California GAMA Priority Basin Project: U.S. Geological Survey Scientific Investigations Report 2011–5002, 120 p.