Table 6.   Pesticides and pesticide degradates detected in samples collected for the Southern Sierra Groundwater Ambient Monitoring and Assessment (GAMA) study, California, June 2006.

[The five-digit number in parentheses below the constituent name is the U.S. Geological Survey parameter code used to uniquely identify a specific constituent or property. Samples from all fifty wells were analyzed, but only samples with detections are listed. Analytes are listed in order of decreasing detection frequency in the thirty-five grid wells. All analytes are listed in table 3C. SOSA, Southern Sierra study unit grid well; SOSAFP, Southern Sierra study unit flow-path well; HAL-US, U.S. Environmental Protection Agency Lifetime Health Advisory; MCL-US, U.S. Environmental Protection Agency maximum contaminant level; MCL-CA; California Department of Public Health maximum contaminant level; E, estimated value; LRL, laboratory reporting level; na, not available; µg/L, microgram per liter; —, not detected.]

GAMA well identification number	Atrazine (µg/L) (39632)	Deethyl-atrazine (µg/L) (04040)	Simazine (µg/L) (04035)	Prometon (µg/L) (04037)	Fipronil sulfide (µg/L) (62167)	Pesticide detections per well
LRL	0.007	0.014	0.005	0.01	0.013	
Threshold type[1]	MCL-CA	na	MCL-US	HAL-US	na	
Threshold level	1	na	4	100	na	
Grid Wells						
SOSA-03	E0.005	E0.005	—	—	—	2
SOSA-07	—	—	—	—	E0.005	1
SOSA-08	—	—	—	E0.01	—	1
SOSA-11	E0.006	E0.01	0.008	—	—	3
SOSA-14	E0.005	E0.011	E0.005	—	—	3
SOSA-16	0.008	E0.015	E0.007	E0.01	—	4
SOSA-31	—	—	E0.003	—	—	1
SOSA-34	E0.005	E0.013	—	—	—	2
Number of detections	5	5	4	2	1	17
Detection frequency (percent)	14	14	11	6	3	[2]23
Flow-path wells						
SOSAFP-04	E0.008	E0.012	—	—	—	2
SOSAFP-07	E0.004	E0.005	—	—	—	2
SOSAFP-08	—	E0.005	—	—	—	1
SOSAFP-09	E0.007	E0.007	E0.003	—	—	3
SOSAFP-15	E0.004	E0.006	E0.006	—	—	3

[1]Maximum contaminant level thresholds are listed as MCL-US when the MCL-US and MCL-CA are identical, and as MCL-CA when the MCL-CA is lower than the MCL-US or no MCL-US exists.

[2]Frequency of detection of at least one pesticide or pesticide degradate in the grid wells.