

Table 8B. Quality-control summary of matrix spike recoveries of pesticides and pesticide degradates in samples collected for the Monterey Bay and Salinas Valley Ground-Water Ambient Monitoring and Assessment (GAMA) study, California, July to October 2005.

[Acceptable recovery range is between 70 and 130 percent]

Constituent (common name)	Number of spiked samples	Minimum recovery (percent)	Maximum recovery (percent)	Median recovery (percent)
1-Naphthol	9	9	51	19
2,6-Diethylaniline	9	85	103	92
2-Chloro-2',6'-diethylacetanilide	9	82	109	101
2-Ethyl-6-methylaniline	9	82	100	87
3,4-Dichloroaniline	9	61	88	83
4-Chloro-2-methylphenol	9	35	68	59
Acetochlor	9	82	101	96
Alachlor	9	86	106	102
Atrazine ¹	9	87	119	99
Azinphos-methyl	9	50	109	81
Azinphos-methyl oxygen analog	9	30	98	69
Benfluralin, water	9	45	67	57
Carbaryl	9	79	162	121
Chlorpyrifos	9	75	100	92
Chlorpyrifos oxygen analog	9	10	92	49
cis-Permethrin	9	43	81	55
Cyfluthrin	9	34	59	53
Cypermethrin	9	34	55	52
Dacthal (DCPA) ¹	9	87	111	105
Deethylatrazine (2-chloro-4-isopropylamino-6-amino-s-triazine) ¹	13	17	115	59
Deisopropyl atrazine (2-chloro-6-ethylamino-4-amino-s-triazine) ¹	4	44	90	71
Desulfinyl fipronil	9	86	102	95
Desulfinylfipronil amide	9	18	97	79
Diazinon	9	80	97	93
Diazinon oxygen analog	9	50	100	92
Dichlorvos	9	20	71	46
Dicrotophos	9	10	49	29
Dieldrin ¹	9	74	112	84
Dimethoate	9	13	40	28
Ethion	9	48	83	76
Ethion monoxon	9	50	98	84
Fenamiphos	9	70	120	80
Fenamiphos sulfone	9	37	94	77
Fenamiphos sulfoxide	9	20	69	40
Fipronil	9	62	101	91
Fipronil sulfide	9	80	100	91
Fipronil sulfone	9	64	87	75
Fonofos	9	77	96	91
Fonofos oxygen analog	0	0	0	0
Hexazinone	9	23	86	73
Iprodione	0	0	0	0
Isofenphos	9	87	119	101
Malaoxon	9	54	116	96
Malathion	9	82	128	114
Metalaxyl	9	79	107	98
Methidathion	9	74	110	91
Methyl paraoxon	9	30	71	65
Methyl parathion	9	53	83	74
Metolachlor ¹	9	98	123	114
Metribuzin	9	42	93	75
Myclobutanil	9	67	90	82
Pendimethalin	9	54	109	87

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Constituent (common name)	Number of spiked samples	Minimum recovery (percent)	Maximum recovery (percent)	Median recovery (percent)
Phorate	9	34	89	74
Phorate oxygen analog	9	59	121	91
Phosmet	9	0	25	12
Phosmet oxygen analog	9	0	29	10
Prometon ¹	9	80	102	95
Prometryn	9	90	108	103
Pronamide	9	78	101	93
Simazine ¹	9	71	110	95
Tebuthiuron	9	60	139	105
Terbufos	9	59	101	86
Terbufos oxygen analog sulfone	9	40	131	102
Terbuthylazine ¹	9	91	111	102
Trifluralin	9	47	75	65
2,4-D (2,4-dichlorophenoxyacetic acid)	4	104	130	120
2,4-D methyl ester	4	88	107	99
2,4-DB (4-(2,4-dichlorophenoxy)butanoic acid)	4	84	101	90
2-Hydroxy-4-isopropylamino-6-ethylamino-s-triazine (hydroxyatrazine)	4	103	115	112
3-Hydroxy carbofuran	4	74	106	101
3-Ketocarbofuran ¹	4	37	90	74
Acifluorfen	4	107	162	127
Aldicarb	4	32	75	63
Aldicarb sulfone	4	40	94	63
Aldicarb sulfoxide	4	71	105	96
Atrazine ¹	4	64	117	99
Bendiocarb	4	84	98	87
Benomyl	4	69	105	77
Bensulfuron	4	88	122	106
Bentazon	4	92	142	110
Bromacil	4	64	110	91
Bromoxynil	4	72	97	90
Caffeine ¹	4	74	130	106
Carbaryl	4	84	110	102
Carbofuran	4	82	110	103
Chloramben methyl ester	4	68	106	97
Chlorimuron	4	55	81	74
Chlorodiamino-s-triazine	4	68	146	109
Chlorothalonil	4	16	69	42
Clopyralid	4	61	85	75
Cycloate	4	80	114	96
Dacthal monoacid	4	108	138	126
Dicamba	4	84	106	102
Dichlorprop	4	84	118	106
Dinoseb	4	100	142	121
Diphenamid ¹	4	84	114	110
Diuron	4	80	118	108
Fenuron ¹	4	76	110	106
Flumetsulam	4	92	191	121
Fluometuron	4	84	118	110
Imazaquin	4	85	170	115
Imazethapyr ¹	4	112	158	122
Imidacloprid	4	100	167	119
Linuron	4	84	114	108

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[Acceptable recovery range is between 70 and 130 percent]

Constituent (common name)	Number of spiked samples	Minimum recovery (percent)	Maximum recovery (percent)	Median recovery (percent)
MCPA (2-Methyl-4-chlorophenoxyacetic acid)	4	88	105	100
MCPB (4-(2-Methyl-4-chlorophenoxy) butyric acid)	4	84	105	94
Metalaxyl	4	84	118	108
Methiocarb	4	88	110	102
Methomyl	4	38	115	94
Metsulfuron ¹	4	44	93	60
3-(4-Chlorophenyl)-1-methyl urea	4	64	114	85
Neburon	4	84	118	110
Nicosulfuron	4	65	183	117
Norflurazon	4	84	129	114
Oryzalin	4	80	110	97
Oxamyl	4	80	110	93
Picloram	4	94	105	97
Propham	4	90	115	109
Propiconazole	4	80	114	100
Propoxur	4	75	108	102
Siduron	4	88	122	114
Sulfometuron-methyl	4	86	131	103
Tebuthiuron	4	79	124	108
Terbacil	4	71	117	106
Triclopyr	4	100	126	110

¹Constituents detected in ground-water samples.