

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Byrnes Canal	BC-01	Benthos	Copper	Treated	Total Relative Abundance	Pre-App	86
Byrnes Canal	BC-01	Benthos	Copper	Treated	Total Relative Abundance	Pre-App	109
Byrnes Canal	BC-02	Benthos	Copper	Treated	Total Relative Abundance	Pre-App	653
Byrnes Canal	BC-02	Benthos	Copper	Treated	Total Relative Abundance	Pre-App	656
Byrnes Canal	BC-02	Benthos	Copper	Treated	Total Relative Abundance	Pre-App	43
Byrnes Canal	BC-01	Benthos	Copper	Treated	Total Relative Abundance	2 week post	271
Byrnes Canal	BC-01	Benthos	Copper	Treated	Total Relative Abundance	2 week post	731.4
Byrnes Canal	BC-01	Benthos	Copper	Treated	Total Relative Abundance	2 week post	834.3
Byrnes Canal	BC-02	Benthos	Copper	Treated	Total Relative Abundance	2 week post	156
Byrnes Canal	BC-02	Benthos	Copper	Treated	Total Relative Abundance	2 week post	357
Byrnes Canal	BC-02	Benthos	Copper	Treated	Total Relative Abundance	2 week post	82
Costa Ponds	CP-01	Benthos	none	Reference	Total Relative Abundance	Pre-App	54
Costa Ponds	CP-01	Benthos	none	Reference	Total Relative Abundance	Pre-App	20
Costa Ponds	CP-01	Benthos	none	Reference	Total Relative Abundance	Pre-App	23
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Total Relative Abundance	Pre-App	68
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Total Relative Abundance	Pre-App	29
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Total Relative Abundance	Pre-App	60
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Total Relative Abundance	Pre-App	23
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Total Relative Abundance	Pre-App	9
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Total Relative Abundance	Pre-App	19
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Total Relative Abundance	Pre-App	81
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Total Relative Abundance	Pre-App	48
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Total Relative Abundance	Pre-App	55
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Total Relative Abundance	Pre-App	20
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Total Relative Abundance	Pre-App	47
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Total Relative Abundance	Pre-App	37
Costa Ponds	CP-01	Benthos	none	Reference	Total Relative Abundance	2 week post	30
Costa Ponds	CP-01	Benthos	none	Reference	Total Relative Abundance	2 week post	16
Costa Ponds	CP-01	Benthos	none	Reference	Total Relative Abundance	2 week post	23
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Total Relative Abundance	2 week post	9
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Total Relative Abundance	2 week post	32
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Total Relative Abundance	2 week post	14
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Total Relative Abundance	2 week post	34
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Total Relative Abundance	2 week post	15
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Total Relative Abundance	2 week post	19
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Total Relative Abundance	2 week post	13
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Total Relative Abundance	2 week post	16
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Total Relative Abundance	2 week post	25
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Total Relative Abundance	2 week post	23
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Total Relative Abundance	2 week post	49
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Total Relative Abundance	2 week post	34
Costa Ponds	CP-01	Benthos	none	Reference	Total Relative Abundance	6 week post	32
Costa Ponds	CP-01	Benthos	none	Reference	Total Relative Abundance	6 week post	20
Costa Ponds	CP-01	Benthos	none	Reference	Total Relative Abundance	6 week post	27
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Total Relative Abundance	6 week post	31
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Total Relative Abundance	6 week post	18
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Total Relative Abundance	6 week post	3
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Total Relative Abundance	6 week post	42
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Total Relative Abundance	6 week post	4
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Total Relative Abundance	6 week post	29
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Total Relative Abundance	6 week post	28
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Total Relative Abundance	6 week post	17
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Total Relative Abundance	6 week post	31
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Total Relative Abundance	6 week post	48
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Total Relative Abundance	6 week post	36
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Total Relative Abundance	6 week post	36
Doris Drain	D-01	Benthos	Glyphosate	Treated	Total Relative Abundance	3 hours	616
Doris Drain	D-01	Benthos	Glyphosate	Treated	Total Relative Abundance	3 hours	619
Doris Drain	D-01	Benthos	Glyphosate	Treated	Total Relative Abundance	3 hours	612
Lake Lagunitas	L-01	Benthos	none	Reference	Total Relative Abundance	Pre-App	12
Lake Lagunitas	L-01	Benthos	none	Reference	Total Relative Abundance	Pre-App	62
Lake Lagunitas	L-01	Benthos	none	Reference	Total Relative Abundance	Pre-App	53
Lake Lagunitas	L-01	Benthos	none	Reference	Total Relative Abundance	2 week post	101
Lake Lagunitas	L-01	Benthos	none	Reference	Total Relative Abundance	2 week post	68
Lake Lagunitas	L-01	Benthos	none	Reference	Total Relative Abundance	2 week post	73
Lake Lagunitas	L-01	Benthos	none	Reference	Total Relative Abundance	6 week post	285
Lake Lagunitas	L-01	Benthos	none	Reference	Total Relative Abundance	6 week post	89
Lake Lagunitas	L-01	Benthos	none	Reference	Total Relative Abundance	6 week post	377
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Total Relative Abundance	Pre-App	27
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Total Relative Abundance	Pre-App	42
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Total Relative Abundance	Pre-App	14
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Total Relative Abundance	Pre-App	72
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Total Relative Abundance	Pre-App	56
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Total Relative Abundance	Pre-App	89
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Total Relative Abundance	Pre-App	19
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Total Relative Abundance	Pre-App	42

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Total Relative Abundance	Pre-App	18
Nicasio Reservoir	N-11	Benthos	none	Reference	Total Relative Abundance	Pre-App	160
Nicasio Reservoir	N-11	Benthos	none	Reference	Total Relative Abundance	Pre-App	53
Nicasio Reservoir	N-11	Benthos	none	Reference	Total Relative Abundance	Pre-App	145
Nicasio Reservoir	N-13	Benthos	none	Reference	Total Relative Abundance	Pre-App	66
Nicasio Reservoir	N-13	Benthos	none	Reference	Total Relative Abundance	Pre-App	39
Nicasio Reservoir	N-13	Benthos	none	Reference	Total Relative Abundance	Pre-App	85
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Total Relative Abundance	2 week post	17
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Total Relative Abundance	2 week post	24
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Total Relative Abundance	2 week post	13
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Total Relative Abundance	2 week post	98
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Total Relative Abundance	2 week post	60
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Total Relative Abundance	2 week post	68
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Total Relative Abundance	2 week post	32
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Total Relative Abundance	2 week post	128
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Total Relative Abundance	2 week post	97
Nicasio Reservoir	N-13	Benthos	none	Reference	Total Relative Abundance	2 week post	153
Nicasio Reservoir	N-13	Benthos	none	Reference	Total Relative Abundance	2 week post	149
Nicasio Reservoir	N-13	Benthos	none	Reference	Total Relative Abundance	2 week post	131
Nicasio Reservoir	N-14	Benthos	Copper	Treated	Total Relative Abundance	2 week post	37
Nicasio Reservoir	N-14	Benthos	Copper	Treated	Total Relative Abundance	2 week post	22
Nicasio Reservoir	N-14	Benthos	Copper	Treated	Total Relative Abundance	2 week post	33
East Fork Russian River	PV-01	Benthos	Copper	Treated	Total Relative Abundance	Pre-App	486
East Fork Russian River	PV-01	Benthos	Copper	Treated	Total Relative Abundance	Pre-App	636
East Fork Russian River	PV-01	Benthos	Copper	Treated	Total Relative Abundance	Pre-App	140
East Fork Russian River	PV-01	Benthos	Copper	Treated	Total Relative Abundance	2 week post	586
East Fork Russian River	PV-01	Benthos	Copper	Treated	Total Relative Abundance	2 week post	512
East Fork Russian River	PV-01	Benthos	Copper	Treated	Total Relative Abundance	2 week post	722
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Total Relative Abundance	Pre-App	64
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Total Relative Abundance	Pre-App	154
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Total Relative Abundance	Pre-App	136
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Total Relative Abundance	2 week post	347
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Total Relative Abundance	2 week post	226
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Total Relative Abundance	2 week post	254
Sand Bay Isle	SB-01	Benthos	Copper	Treated	Total Relative Abundance	1 week post	212
Sand Bay Isle	SB-01	Benthos	Copper	Treated	Total Relative Abundance	1 week post	1059.2
Sand Bay Isle	SB-01	Benthos	Copper	Treated	Total Relative Abundance	1 week post	606
Sand Bay Isle	SB-02	Benthos	none	Reference	Total Relative Abundance	1 week post	4944
Sand Bay Isle	SB-02	Benthos	none	Reference	Total Relative Abundance	1 week post	221
Sand Bay Isle	SB-02	Benthos	none	Reference	Total Relative Abundance	1 week post	22
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Total Relative Abundance	Pre-App	9
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Total Relative Abundance	Pre-App	192
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Total Relative Abundance	Pre-App	42
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Total Relative Abundance	Pre-App	204
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Total Relative Abundance	Pre-App	136
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Total Relative Abundance	Pre-App	143
Stone Lake	SL-01	Benthos	none	Reference	Total Relative Abundance	4 week post	2
Stone Lake	SL-01	Benthos	none	Reference	Total Relative Abundance	4 week post	6
Stone Lake	SL-01	Benthos	none	Reference	Total Relative Abundance	4 week post	22
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Total Relative Abundance	4 week post	3
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Total Relative Abundance	4 week post	11
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Total Relative Abundance	4 week post	8
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Total Relative Abundance	4 week post	195
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Total Relative Abundance	4 week post	13
Stone Lake	SL-01	Benthos	none	Reference	Total Relative Abundance	8 week post	2
Stone Lake	SL-01	Benthos	none	Reference	Total Relative Abundance	8 week post	4
Stone Lake	SL-01	Benthos	none	Reference	Total Relative Abundance	8 week post	13
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Total Relative Abundance	8 week post	17
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Total Relative Abundance	8 week post	4
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Total Relative Abundance	8 week post	10
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Total Relative Abundance	8 week post	34
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Total Relative Abundance	8 week post	193
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Total Relative Abundance	8 week post	19
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Total Relative Abundance	Pre-App	646
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Total Relative Abundance	Pre-App	730
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Total Relative Abundance	Pre-App	652
Big Bear Lake	BBC-01	EI	none	Reference	Total Relative Abundance	2 week post	214
Big Bear Lake	BBC-01	EI	none	Reference	Total Relative Abundance	2 week post	123
Big Bear Lake	BBC-01	EI	none	Reference	Total Relative Abundance	2 week post	159
Big Bear Lake	BBP-03	EI	Fluridone	Treated	Total Relative Abundance	2 week post	654
Byrnes Canal	BC-02	EI	Copper	Treated	Total Relative Abundance	Pre-App	326
Byrnes Canal	BC-02	EI	Copper	Treated	Total Relative Abundance	Pre-App	349
Byrnes Canal	BC-02	EI	Copper	Treated	Total Relative Abundance	2 week post	429
Byrnes Canal	BC-02	EI	Copper	Treated	Total Relative Abundance	2 week post	231
Byrnes Canal	BC-02	EI	Copper	Treated	Total Relative Abundance	2 week post	167
Costa Ponds	CP-01	EI	none	Reference	Total Relative Abundance	Pre-App	4573.3

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SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Costa Ponds	CP-01	EI	none	Reference	Total Relative Abundance	Pre-App	7104
Costa Ponds	CP-01	EI	none	Reference	Total Relative Abundance	Pre-App	7140
Costa Ponds	CP-02	EI	Fluridone	Treated	Total Relative Abundance	Pre-App	3417.1
Costa Ponds	CP-02	EI	Fluridone	Treated	Total Relative Abundance	Pre-App	1184
Costa Ponds	CP-02	EI	Fluridone	Treated	Total Relative Abundance	Pre-App	926.7
Costa Ponds	CP-01	EI	none	Reference	Total Relative Abundance	2 week post	5712
Costa Ponds	CP-01	EI	none	Reference	Total Relative Abundance	2 week post	2471
Costa Ponds	CP-01	EI	none	Reference	Total Relative Abundance	2 week post	2504
Costa Ponds	CP-02	EI	Fluridone	Treated	Total Relative Abundance	2 week post	519
Costa Ponds	CP-02	EI	Fluridone	Treated	Total Relative Abundance	2 week post	880
Costa Ponds	CP-02	EI	Fluridone	Treated	Total Relative Abundance	2 week post	154
Costa Ponds	CP-01	EI	none	Reference	Total Relative Abundance	6 week post	322
Costa Ponds	CP-01	EI	none	Reference	Total Relative Abundance	6 week post	141
Costa Ponds	CP-01	EI	none	Reference	Total Relative Abundance	6 week post	1230
Costa Ponds	CP-02	EI	Fluridone	Treated	Total Relative Abundance	6 week post	97
Costa Ponds	CP-02	EI	Fluridone	Treated	Total Relative Abundance	6 week post	87
Costa Ponds	CP-02	EI	Fluridone	Treated	Total Relative Abundance	6 week post	368
Doris Drain	D-01	EI	Glyphosate	Treated	Total Relative Abundance	3 hours	618
Doris Drain	D-01	EI	Glyphosate	Treated	Total Relative Abundance	3 hours	631
Doris Drain	D-01	EI	Glyphosate	Treated	Total Relative Abundance	3 hours	632
Bear Creek	H-01	EI	Triclopyr	Treated	Total Relative Abundance	Pre-App	657
Bear Creek	H-01	EI	Triclopyr	Treated	Total Relative Abundance	Pre-App	630
Bear Creek	H-01	EI	Triclopyr	Treated	Total Relative Abundance	Pre-App	152
Bear Creek	H-01	EI	Triclopyr	Treated	Total Relative Abundance	24 hours	668
Bear Creek	H-01	EI	Triclopyr	Treated	Total Relative Abundance	24 hours	664
Bear Creek	H-01	EI	Triclopyr	Treated	Total Relative Abundance	24 hours	668
Bear Creek	H-01	EI	Triclopyr	Treated	Total Relative Abundance	2 week post	720
Bear Creek	H-01	EI	Triclopyr	Treated	Total Relative Abundance	2 week post	669
Bear Creek	H-01	EI	Triclopyr	Treated	Total Relative Abundance	2 week post	509
Sand Bay Isle	SB-01	EI	Diquat	Treated	Total Relative Abundance	Pre-App	2856
Sand Bay Isle	SB-01	EI	Diquat	Treated	Total Relative Abundance	2 week post	634
Sand Bay Isle	SB-01	EI	Diquat	Treated	Total Relative Abundance	2 week post	950.4
Sand Bay Isle	SB-01	EI	Diquat	Treated	Total Relative Abundance	2 week post	430
Stone Lake	SL-02	EI	Glyphosate	Treated	Total Relative Abundance	Pre-App	882.9
Stone Lake	SL-02	EI	Glyphosate	Treated	Total Relative Abundance	Pre-App	421.3
Stone Lake	SL-01	EI	none	Reference	Total Relative Abundance	4 week post	746.7
Stone Lake	SL-01	EI	none	Reference	Total Relative Abundance	4 week post	462.5
Stone Lake	SL-01	EI	none	Reference	Total Relative Abundance	4 week post	792.5
Stone Lake	SL-02	EI	Glyphosate	Treated	Total Relative Abundance	4 week post	1328
Stone Lake	SL-02	EI	Glyphosate	Treated	Total Relative Abundance	4 week post	1116.7
Stone Lake	SL-02	EI	Glyphosate	Treated	Total Relative Abundance	4 week post	8906.7
Stone Lake	SL-01	EI	none	Reference	Total Relative Abundance	8 week post	22
Stone Lake	SL-01	EI	none	Reference	Total Relative Abundance	8 week post	612
Stone Lake	SL-01	EI	none	Reference	Total Relative Abundance	8 week post	32
Stone Lake	SL-02	EI	Glyphosate	Treated	Total Relative Abundance	8 week post	990
Stone Lake	SL-02	EI	Glyphosate	Treated	Total Relative Abundance	8 week post	1891.4
Stone Lake	SL-02	EI	Glyphosate	Treated	Total Relative Abundance	8 week post	1847
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	Species Richness	Pre-App	20
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	Species Richness	Pre-App	18
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	Species Richness	Pre-App	14
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Species Richness	Pre-App	5
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Species Richness	Pre-App	3
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Species Richness	Pre-App	1
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Species Richness	Pre-App	7
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Species Richness	Pre-App	6
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Species Richness	Pre-App	3
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Species Richness	Pre-App	11
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Species Richness	Pre-App	7
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Species Richness	Pre-App	3
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Species Richness	Pre-App	3
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Species Richness	Pre-App	4
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Species Richness	Pre-App	10
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Species Richness	Pre-App	5
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Species Richness	Pre-App	4
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Species Richness	Pre-App	4
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Species Richness	Pre-App	7
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Species Richness	Pre-App	7
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Species Richness	Pre-App	10
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Species Richness	2 week post	15
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Species Richness	2 week post	11
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Species Richness	2 week post	12
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Species Richness	2 week post	11
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Species Richness	2 week post	10
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Species Richness	2 week post	8
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Species Richness	2 week post	4
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Species Richness	2 week post	7

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SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Species Richness	2 week post	5
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Species Richness	2 week post	8
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Species Richness	2 week post	6
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Species Richness	2 week post	10
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Species Richness	2 week post	8
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Species Richness	2 week post	7
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Species Richness	2 week post	3
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Species Richness	2 week post	4
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Species Richness	2 week post	4
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Species Richness	2 week post	5
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Species Richness	2 week post	9
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Species Richness	2 week post	4
Costa Ponds	CP-01	Benthos	none	Reference	Species Richness	6 week post	2
Costa Ponds	CP-01	Benthos	none	Reference	Species Richness	6 week post	2
Costa Ponds	CP-01	Benthos	none	Reference	Species Richness	6 week post	2
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Species Richness	6 week post	6
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Species Richness	6 week post	8
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Species Richness	6 week post	3
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Species Richness	6 week post	10
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Species Richness	6 week post	3
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Species Richness	6 week post	6
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Species Richness	6 week post	7
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Species Richness	6 week post	6
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Species Richness	6 week post	8
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Species Richness	6 week post	8
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Species Richness	6 week post	4
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Species Richness	6 week post	7
Doris Drain	D-01	Benthos	Glyphosate	Treated	Species Richness	3 hours	13
Doris Drain	D-01	Benthos	Glyphosate	Treated	Species Richness	3 hours	11
Doris Drain	D-01	Benthos	Glyphosate	Treated	Species Richness	3 hours	13
Lake Lagunitas	L-01	Benthos	none	Reference	Species Richness	Pre-App	5
Lake Lagunitas	L-01	Benthos	none	Reference	Species Richness	Pre-App	9
Lake Lagunitas	L-01	Benthos	none	Reference	Species Richness	Pre-App	12
Lake Lagunitas	L-01	Benthos	none	Reference	Species Richness	2 week post	22
Lake Lagunitas	L-01	Benthos	none	Reference	Species Richness	2 week post	18
Lake Lagunitas	L-01	Benthos	none	Reference	Species Richness	2 week post	19
Lake Lagunitas	L-01	Benthos	none	Reference	Species Richness	6 week post	17
Lake Lagunitas	L-01	Benthos	none	Reference	Species Richness	6 week post	13
Lake Lagunitas	L-01	Benthos	none	Reference	Species Richness	6 week post	23
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Species Richness	Pre-App	6
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Species Richness	Pre-App	7
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Species Richness	Pre-App	7
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Species Richness	Pre-App	8
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Species Richness	Pre-App	8
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Species Richness	Pre-App	11
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Species Richness	Pre-App	5
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Species Richness	Pre-App	9
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Species Richness	Pre-App	8
Nicasio Reservoir	N-11	Benthos	none	Reference	Species Richness	Pre-App	14
Nicasio Reservoir	N-11	Benthos	none	Reference	Species Richness	Pre-App	9
Nicasio Reservoir	N-11	Benthos	none	Reference	Species Richness	Pre-App	7
Nicasio Reservoir	N-13	Benthos	none	Reference	Species Richness	Pre-App	9
Nicasio Reservoir	N-13	Benthos	none	Reference	Species Richness	Pre-App	5
Nicasio Reservoir	N-13	Benthos	none	Reference	Species Richness	Pre-App	8
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Species Richness	2 week post	6
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Species Richness	2 week post	8
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Species Richness	2 week post	5
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Species Richness	2 week post	10
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Species Richness	2 week post	8
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Species Richness	2 week post	10
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Species Richness	2 week post	8
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Species Richness	2 week post	16
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Species Richness	2 week post	11
Nicasio Reservoir	N-13	Benthos	none	Reference	Species Richness	2 week post	7
Nicasio Reservoir	N-13	Benthos	none	Reference	Species Richness	2 week post	9
Nicasio Reservoir	N-13	Benthos	none	Reference	Species Richness	2 week post	7
Nicasio Reservoir	N-14	Benthos	Copper	Treated	Species Richness	2 week post	9
Nicasio Reservoir	N-14	Benthos	Copper	Treated	Species Richness	2 week post	9
Nicasio Reservoir	N-14	Benthos	Copper	Treated	Species Richness	2 week post	11
East Fork Russian River	PV-01	Benthos	Copper	Treated	Species Richness	Pre-App	19
East Fork Russian River	PV-01	Benthos	Copper	Treated	Species Richness	Pre-App	23
East Fork Russian River	PV-01	Benthos	Copper	Treated	Species Richness	Pre-App	8
East Fork Russian River	PV-01	Benthos	Copper	Treated	Species Richness	2 week post	24
East Fork Russian River	PV-01	Benthos	Copper	Treated	Species Richness	2 week post	14
East Fork Russian River	PV-01	Benthos	Copper	Treated	Species Richness	2 week post	22
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Species Richness	Pre-App	15

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Species Richness	Pre-App	23
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Species Richness	Pre-App	18
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Species Richness	2 week post	27
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Species Richness	2 week post	20
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Species Richness	2 week post	17
Sand Bay Isle	SB-01	Benthos	Copper	Treated	Species Richness	1 week post	12
Sand Bay Isle	SB-01	Benthos	Copper	Treated	Species Richness	1 week post	13
Sand Bay Isle	SB-01	Benthos	Copper	Treated	Species Richness	1 week post	14
Sand Bay Isle	SB-02	Benthos	none	Reference	Species Richness	1 week post	13
Sand Bay Isle	SB-02	Benthos	none	Reference	Species Richness	1 week post	12
Sand Bay Isle	SB-02	Benthos	none	Reference	Species Richness	1 week post	5
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Species Richness	Pre-App	5
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Species Richness	Pre-App	27
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Species Richness	Pre-App	12
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Species Richness	Pre-App	17
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Species Richness	Pre-App	23
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Species Richness	Pre-App	16
Stone Lake	SL-01	Benthos	none	Reference	Species Richness	4 week post	2
Stone Lake	SL-01	Benthos	none	Reference	Species Richness	4 week post	4
Stone Lake	SL-01	Benthos	none	Reference	Species Richness	4 week post	5
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Species Richness	4 week post	3
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Species Richness	4 week post	4
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Species Richness	4 week post	4
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Species Richness	4 week post	18
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Species Richness	4 week post	5
Stone Lake	SL-01	Benthos	none	Reference	Species Richness	8 week post	2
Stone Lake	SL-01	Benthos	none	Reference	Species Richness	8 week post	3
Stone Lake	SL-01	Benthos	none	Reference	Species Richness	8 week post	4
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Species Richness	8 week post	12
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Species Richness	8 week post	3
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Species Richness	8 week post	7
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Species Richness	8 week post	14
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Species Richness	8 week post	25
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Species Richness	8 week post	11
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Species Richness	Pre-App	14
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Species Richness	Pre-App	20
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Species Richness	Pre-App	16
Big Bear Lake	BBC-01	EI	none	Reference	Species Richness	2 week post	8
Big Bear Lake	BBC-01	EI	none	Reference	Species Richness	2 week post	11
Big Bear Lake	BBC-01	EI	none	Reference	Species Richness	2 week post	9
Big Bear Lake	BBP-03	EI	Fluridone	Treated	Species Richness	2 week post	16
Byrnes Canal	BC-02	EI	Copper	Treated	Species Richness	Pre-App	18
Byrnes Canal	BC-02	EI	Copper	Treated	Species Richness	Pre-App	19
Byrnes Canal	BC-02	EI	Copper	Treated	Species Richness	2 week post	25
Byrnes Canal	BC-02	EI	Copper	Treated	Species Richness	2 week post	20
Byrnes Canal	BC-02	EI	Copper	Treated	Species Richness	2 week post	15
Costa Ponds	CP-01	EI	none	Reference	Species Richness	Pre-App	17
Costa Ponds	CP-01	EI	none	Reference	Species Richness	Pre-App	22
Costa Ponds	CP-01	EI	none	Reference	Species Richness	Pre-App	10
Costa Ponds	CP-02	EI	Fluridone	Treated	Species Richness	Pre-App	24
Costa Ponds	CP-02	EI	Fluridone	Treated	Species Richness	Pre-App	24
Costa Ponds	CP-02	EI	Fluridone	Treated	Species Richness	Pre-App	25
Costa Ponds	CP-01	EI	none	Reference	Species Richness	2 week post	16
Costa Ponds	CP-01	EI	none	Reference	Species Richness	2 week post	25
Costa Ponds	CP-01	EI	none	Reference	Species Richness	2 week post	19
Costa Ponds	CP-02	EI	Fluridone	Treated	Species Richness	2 week post	23
Costa Ponds	CP-02	EI	Fluridone	Treated	Species Richness	2 week post	21
Costa Ponds	CP-02	EI	Fluridone	Treated	Species Richness	2 week post	20
Costa Ponds	CP-01	EI	none	Reference	Species Richness	6 week post	21
Costa Ponds	CP-01	EI	none	Reference	Species Richness	6 week post	13
Costa Ponds	CP-01	EI	none	Reference	Species Richness	6 week post	21
Costa Ponds	CP-02	EI	Fluridone	Treated	Species Richness	6 week post	17
Costa Ponds	CP-02	EI	Fluridone	Treated	Species Richness	6 week post	13
Costa Ponds	CP-02	EI	Fluridone	Treated	Species Richness	6 week post	23
Doris Drain	D-01	EI	Glyphosate	Treated	Species Richness	3 hours	17
Doris Drain	D-01	EI	Glyphosate	Treated	Species Richness	3 hours	20
Doris Drain	D-01	EI	Glyphosate	Treated	Species Richness	3 hours	20
Bear Creek	H-01	EI	Triclopyr	Treated	Species Richness	Pre-App	17
Bear Creek	H-01	EI	Triclopyr	Treated	Species Richness	Pre-App	22
Bear Creek	H-01	EI	Triclopyr	Treated	Species Richness	Pre-App	16
Bear Creek	H-01	EI	Triclopyr	Treated	Species Richness	24 hours	24
Bear Creek	H-01	EI	Triclopyr	Treated	Species Richness	24 hours	20
Bear Creek	H-01	EI	Triclopyr	Treated	Species Richness	24 hours	24
Bear Creek	H-01	EI	Triclopyr	Treated	Species Richness	2 week post	20
Bear Creek	H-01	EI	Triclopyr	Treated	Species Richness	2 week post	21
Bear Creek	H-01	EI	Triclopyr	Treated	Species Richness	2 week post	21

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Shannon-Weiner Diversity	8 week post	1.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Shannon-Weiner Diversity	8 week post	1.8
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Shannon-Weiner Diversity	8 week post	2.4
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Shannon-Weiner Diversity	8 week post	2.8
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Shannon-Weiner Diversity	8 week post	2.3
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Shannon-Weiner Diversity	Pre-App	0.6
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Shannon-Weiner Diversity	Pre-App	0.8
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Shannon-Weiner Diversity	Pre-App	0.6
Big Bear Lake	BBC-01	EI	none	Reference	Shannon-Weiner Diversity	2 week post	0.5
Big Bear Lake	BBC-01	EI	none	Reference	Shannon-Weiner Diversity	2 week post	0.7
Big Bear Lake	BBC-01	EI	none	Reference	Shannon-Weiner Diversity	2 week post	0.6
Big Bear Lake	BBP-03	EI	Fluridone	Treated	Shannon-Weiner Diversity	2 week post	0.7
Byrnes Canal	BC-02	EI	Copper	Treated	Shannon-Weiner Diversity	Pre-App	1.0
Byrnes Canal	BC-02	EI	Copper	Treated	Shannon-Weiner Diversity	Pre-App	0.7
Byrnes Canal	BC-02	EI	Copper	Treated	Shannon-Weiner Diversity	2 week post	0.6
Byrnes Canal	BC-02	EI	Copper	Treated	Shannon-Weiner Diversity	2 week post	0.7
Byrnes Canal	BC-02	EI	Copper	Treated	Shannon-Weiner Diversity	2 week post	0.5
Costa Ponds	CP-01	EI	none	Reference	Shannon-Weiner Diversity	Pre-App	1.7
Costa Ponds	CP-01	EI	none	Reference	Shannon-Weiner Diversity	Pre-App	1.6
Costa Ponds	CP-01	EI	none	Reference	Shannon-Weiner Diversity	Pre-App	0.9
Costa Ponds	CP-02	EI	Fluridone	Treated	Shannon-Weiner Diversity	Pre-App	2.3
Costa Ponds	CP-02	EI	Fluridone	Treated	Shannon-Weiner Diversity	Pre-App	2.4
Costa Ponds	CP-02	EI	Fluridone	Treated	Shannon-Weiner Diversity	Pre-App	2.6
Costa Ponds	CP-01	EI	none	Reference	Shannon-Weiner Diversity	2 week post	1.7
Costa Ponds	CP-01	EI	none	Reference	Shannon-Weiner Diversity	2 week post	2.3
Costa Ponds	CP-01	EI	none	Reference	Shannon-Weiner Diversity	2 week post	1.8
Costa Ponds	CP-02	EI	Fluridone	Treated	Shannon-Weiner Diversity	2 week post	2.4
Costa Ponds	CP-02	EI	Fluridone	Treated	Shannon-Weiner Diversity	2 week post	2.5
Costa Ponds	CP-02	EI	Fluridone	Treated	Shannon-Weiner Diversity	2 week post	2.6
Costa Ponds	CP-01	EI	none	Reference	Shannon-Weiner Diversity	6 week post	2.1
Costa Ponds	CP-01	EI	none	Reference	Shannon-Weiner Diversity	6 week post	1.6
Costa Ponds	CP-01	EI	none	Reference	Shannon-Weiner Diversity	6 week post	2.0
Costa Ponds	CP-02	EI	Fluridone	Treated	Shannon-Weiner Diversity	6 week post	2.3
Costa Ponds	CP-02	EI	Fluridone	Treated	Shannon-Weiner Diversity	6 week post	2.0
Costa Ponds	CP-02	EI	Fluridone	Treated	Shannon-Weiner Diversity	6 week post	2.1
Doris Drain	D-01	EI	Glyphosate	Treated	Shannon-Weiner Diversity	3 hours	0.6
Doris Drain	D-01	EI	Glyphosate	Treated	Shannon-Weiner Diversity	3 hours	0.7
Doris Drain	D-01	EI	Glyphosate	Treated	Shannon-Weiner Diversity	3 hours	0.7
Bear Creek	H-01	EI	Triclopyr	Treated	Shannon-Weiner Diversity	Pre-App	0.5
Bear Creek	H-01	EI	Triclopyr	Treated	Shannon-Weiner Diversity	Pre-App	0.7
Bear Creek	H-01	EI	Triclopyr	Treated	Shannon-Weiner Diversity	Pre-App	0.9
Bear Creek	H-01	EI	Triclopyr	Treated	Shannon-Weiner Diversity	24 hours	0.9
Bear Creek	H-01	EI	Triclopyr	Treated	Shannon-Weiner Diversity	24 hours	0.7
Bear Creek	H-01	EI	Triclopyr	Treated	Shannon-Weiner Diversity	24 hours	0.9
Bear Creek	H-01	EI	Triclopyr	Treated	Shannon-Weiner Diversity	2 week post	0.9
Bear Creek	H-01	EI	Triclopyr	Treated	Shannon-Weiner Diversity	2 week post	0.7
Bear Creek	H-01	EI	Triclopyr	Treated	Shannon-Weiner Diversity	2 week post	0.9
Sand Bay Isle	SB-01	EI	Diquat	Treated	Shannon-Weiner Diversity	Pre-App	0.5
Sand Bay Isle	SB-01	EI	Diquat	Treated	Shannon-Weiner Diversity	2 week post	0.9
Sand Bay Isle	SB-01	EI	Diquat	Treated	Shannon-Weiner Diversity	2 week post	0.9
Sand Bay Isle	SB-01	EI	Diquat	Treated	Shannon-Weiner Diversity	2 week post	1.1
Stone Lake	SL-02	EI	Glyphosate	Treated	Shannon-Weiner Diversity	Pre-App	1.7
Stone Lake	SL-02	EI	Glyphosate	Treated	Shannon-Weiner Diversity	Pre-App	1.3
Stone Lake	SL-01	EI	none	Reference	Shannon-Weiner Diversity	4 week post	0.8
Stone Lake	SL-01	EI	none	Reference	Shannon-Weiner Diversity	4 week post	0.7
Stone Lake	SL-01	EI	none	Reference	Shannon-Weiner Diversity	4 week post	0.6
Stone Lake	SL-02	EI	Glyphosate	Treated	Shannon-Weiner Diversity	4 week post	2.2
Stone Lake	SL-02	EI	Glyphosate	Treated	Shannon-Weiner Diversity	4 week post	1.4
Stone Lake	SL-02	EI	Glyphosate	Treated	Shannon-Weiner Diversity	4 week post	0.9
Stone Lake	SL-01	EI	none	Reference	Shannon-Weiner Diversity	8 week post	1.4
Stone Lake	SL-01	EI	none	Reference	Shannon-Weiner Diversity	8 week post	1.9
Stone Lake	SL-01	EI	none	Reference	Shannon-Weiner Diversity	8 week post	1.9
Stone Lake	SL-02	EI	Glyphosate	Treated	Shannon-Weiner Diversity	8 week post	2.6
Stone Lake	SL-02	EI	Glyphosate	Treated	Shannon-Weiner Diversity	8 week post	2.8
Stone Lake	SL-02	EI	Glyphosate	Treated	Shannon-Weiner Diversity	8 week post	1.1
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	ToleranceValue	Pre-App	8.0
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	ToleranceValue	Pre-App	8.1
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	ToleranceValue	Pre-App	7.1
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	ToleranceValue	Pre-App	9.4
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	ToleranceValue	Pre-App	9.7
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	ToleranceValue	Pre-App	10.0
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	ToleranceValue	Pre-App	9.3
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	ToleranceValue	Pre-App	8.7
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	ToleranceValue	Pre-App	9.6
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	ToleranceValue	Pre-App	9.1
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	ToleranceValue	Pre-App	9.2

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Costa Ponds	CP-01	Benthos	none	Reference	ToleranceValue	Pre-App	8.4
Costa Ponds	CP-01	Benthos	none	Reference	ToleranceValue	Pre-App	0.0
Costa Ponds	CP-01	Benthos	none	Reference	ToleranceValue	Pre-App	6.7
Costa Ponds	CP-02	Benthos	Fluridone	Treated	ToleranceValue	Pre-App	8.8
Costa Ponds	CP-02	Benthos	Fluridone	Treated	ToleranceValue	Pre-App	9.0
Costa Ponds	CP-02	Benthos	Fluridone	Treated	ToleranceValue	Pre-App	8.7
Costa Ponds	CP-03	Benthos	Fluridone	Treated	ToleranceValue	Pre-App	8.1
Costa Ponds	CP-03	Benthos	Fluridone	Treated	ToleranceValue	Pre-App	9.2
Costa Ponds	CP-03	Benthos	Fluridone	Treated	ToleranceValue	Pre-App	9.2
Costa Ponds	CP-04	Benthos	Fluridone	Treated	ToleranceValue	Pre-App	9.3
Costa Ponds	CP-04	Benthos	Fluridone	Treated	ToleranceValue	Pre-App	9.4
Costa Ponds	CP-04	Benthos	Fluridone	Treated	ToleranceValue	Pre-App	9.1
Costa Ponds	CP-05	Benthos	Fluridone	Treated	ToleranceValue	Pre-App	8.3
Costa Ponds	CP-05	Benthos	Fluridone	Treated	ToleranceValue	Pre-App	9.0
Costa Ponds	CP-05	Benthos	Fluridone	Treated	ToleranceValue	Pre-App	9.2
Costa Ponds	CP-01	Benthos	none	Reference	ToleranceValue	2 week post	8.0
Costa Ponds	CP-01	Benthos	none	Reference	ToleranceValue	2 week post	9.8
Costa Ponds	CP-01	Benthos	none	Reference	ToleranceValue	2 week post	9.3
Costa Ponds	CP-02	Benthos	Fluridone	Treated	ToleranceValue	2 week post	9.5
Costa Ponds	CP-02	Benthos	Fluridone	Treated	ToleranceValue	2 week post	9.4
Costa Ponds	CP-02	Benthos	Fluridone	Treated	ToleranceValue	2 week post	8.8
Costa Ponds	CP-03	Benthos	Fluridone	Treated	ToleranceValue	2 week post	8.6
Costa Ponds	CP-03	Benthos	Fluridone	Treated	ToleranceValue	2 week post	8.6
Costa Ponds	CP-03	Benthos	Fluridone	Treated	ToleranceValue	2 week post	8.1
Costa Ponds	CP-04	Benthos	Fluridone	Treated	ToleranceValue	2 week post	9.7
Costa Ponds	CP-04	Benthos	Fluridone	Treated	ToleranceValue	2 week post	9.3
Costa Ponds	CP-04	Benthos	Fluridone	Treated	ToleranceValue	2 week post	8.0
Costa Ponds	CP-05	Benthos	Fluridone	Treated	ToleranceValue	2 week post	9.4
Costa Ponds	CP-05	Benthos	Fluridone	Treated	ToleranceValue	2 week post	9.4
Costa Ponds	CP-05	Benthos	Fluridone	Treated	ToleranceValue	2 week post	9.6
Costa Ponds	CP-01	Benthos	none	Reference	ToleranceValue	6 week post	6.0
Costa Ponds	CP-01	Benthos	none	Reference	ToleranceValue	6 week post	9.0
Costa Ponds	CP-01	Benthos	none	Reference	ToleranceValue	6 week post	0.0
Costa Ponds	CP-02	Benthos	Fluridone	Treated	ToleranceValue	6 week post	7.9
Costa Ponds	CP-02	Benthos	Fluridone	Treated	ToleranceValue	6 week post	8.5
Costa Ponds	CP-02	Benthos	Fluridone	Treated	ToleranceValue	6 week post	7.0
Costa Ponds	CP-03	Benthos	Fluridone	Treated	ToleranceValue	6 week post	8.9
Costa Ponds	CP-03	Benthos	Fluridone	Treated	ToleranceValue	6 week post	8.0
Costa Ponds	CP-03	Benthos	Fluridone	Treated	ToleranceValue	6 week post	9.3
Costa Ponds	CP-04	Benthos	Fluridone	Treated	ToleranceValue	6 week post	9.1
Costa Ponds	CP-04	Benthos	Fluridone	Treated	ToleranceValue	6 week post	9.2
Costa Ponds	CP-04	Benthos	Fluridone	Treated	ToleranceValue	6 week post	9.2
Costa Ponds	CP-05	Benthos	Fluridone	Treated	ToleranceValue	6 week post	9.8
Costa Ponds	CP-05	Benthos	Fluridone	Treated	ToleranceValue	6 week post	9.9
Costa Ponds	CP-05	Benthos	Fluridone	Treated	ToleranceValue	6 week post	9.6
Doris Drain	D-01	Benthos	Glyphosate	Treated	ToleranceValue	3 hours	9.5
Doris Drain	D-01	Benthos	Glyphosate	Treated	ToleranceValue	3 hours	9.2
Doris Drain	D-01	Benthos	Glyphosate	Treated	ToleranceValue	3 hours	9.4
Lake Lagunitas	L-01	Benthos	none	Reference	ToleranceValue	Pre-App	9.1
Lake Lagunitas	L-01	Benthos	none	Reference	ToleranceValue	Pre-App	8.2
Lake Lagunitas	L-01	Benthos	none	Reference	ToleranceValue	Pre-App	8.4
Lake Lagunitas	L-01	Benthos	none	Reference	ToleranceValue	2 week post	6.9
Lake Lagunitas	L-01	Benthos	none	Reference	ToleranceValue	2 week post	6.8
Lake Lagunitas	L-01	Benthos	none	Reference	ToleranceValue	2 week post	6.4
Lake Lagunitas	L-01	Benthos	none	Reference	ToleranceValue	6 week post	7.3
Lake Lagunitas	L-01	Benthos	none	Reference	ToleranceValue	6 week post	6.2
Lake Lagunitas	L-01	Benthos	none	Reference	ToleranceValue	6 week post	6.8
Nicasio Reservoir	N-05	Benthos	Copper	Treated	ToleranceValue	Pre-App	9.0
Nicasio Reservoir	N-05	Benthos	Copper	Treated	ToleranceValue	Pre-App	9.6
Nicasio Reservoir	N-05	Benthos	Copper	Treated	ToleranceValue	Pre-App	9.8
Nicasio Reservoir	N-06	Benthos	Copper	Treated	ToleranceValue	Pre-App	9.0
Nicasio Reservoir	N-06	Benthos	Copper	Treated	ToleranceValue	Pre-App	8.9
Nicasio Reservoir	N-06	Benthos	Copper	Treated	ToleranceValue	Pre-App	8.9
Nicasio Reservoir	N-07	Benthos	Copper	Treated	ToleranceValue	Pre-App	9.4
Nicasio Reservoir	N-07	Benthos	Copper	Treated	ToleranceValue	Pre-App	9.1
Nicasio Reservoir	N-07	Benthos	Copper	Treated	ToleranceValue	Pre-App	8.7
Nicasio Reservoir	N-11	Benthos	none	Reference	ToleranceValue	Pre-App	9.3
Nicasio Reservoir	N-11	Benthos	none	Reference	ToleranceValue	Pre-App	9.5
Nicasio Reservoir	N-11	Benthos	none	Reference	ToleranceValue	Pre-App	9.8
Nicasio Reservoir	N-13	Benthos	none	Reference	ToleranceValue	Pre-App	9.8
Nicasio Reservoir	N-13	Benthos	none	Reference	ToleranceValue	Pre-App	9.9
Nicasio Reservoir	N-13	Benthos	none	Reference	ToleranceValue	Pre-App	9.6
Nicasio Reservoir	N-05	Benthos	Copper	Treated	ToleranceValue	2 week post	9.1
Nicasio Reservoir	N-05	Benthos	Copper	Treated	ToleranceValue	2 week post	8.9
Nicasio Reservoir	N-05	Benthos	Copper	Treated	ToleranceValue	2 week post	9.7
Nicasio Reservoir	N-06	Benthos	Copper	Treated	ToleranceValue	2 week post	9.1

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Nicasio Reservoir	N-06	Benthos	Copper	Treated	ToleranceValue	2 week post	8.6
Nicasio Reservoir	N-06	Benthos	Copper	Treated	ToleranceValue	2 week post	8.9
Nicasio Reservoir	N-07	Benthos	Copper	Treated	ToleranceValue	2 week post	8.6
Nicasio Reservoir	N-07	Benthos	Copper	Treated	ToleranceValue	2 week post	8.2
Nicasio Reservoir	N-07	Benthos	Copper	Treated	ToleranceValue	2 week post	9.1
Nicasio Reservoir	N-13	Benthos	none	Reference	ToleranceValue	2 week post	9.8
Nicasio Reservoir	N-13	Benthos	none	Reference	ToleranceValue	2 week post	9.7
Nicasio Reservoir	N-13	Benthos	none	Reference	ToleranceValue	2 week post	9.8
Nicasio Reservoir	N-14	Benthos	Copper	Treated	ToleranceValue	2 week post	9.3
Nicasio Reservoir	N-14	Benthos	Copper	Treated	ToleranceValue	2 week post	8.8
Nicasio Reservoir	N-14	Benthos	Copper	Treated	ToleranceValue	2 week post	8.5
East Fork Russian River	PV-01	Benthos	Copper	Treated	ToleranceValue	Pre-App	9.1
East Fork Russian River	PV-01	Benthos	Copper	Treated	ToleranceValue	Pre-App	9.1
East Fork Russian River	PV-01	Benthos	Copper	Treated	ToleranceValue	Pre-App	9.4
East Fork Russian River	PV-01	Benthos	Copper	Treated	ToleranceValue	2 week post	9.4
East Fork Russian River	PV-01	Benthos	Copper	Treated	ToleranceValue	2 week post	9.2
East Fork Russian River	PV-01	Benthos	Copper	Treated	ToleranceValue	2 week post	9.4
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	ToleranceValue	Pre-App	7.9
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	ToleranceValue	Pre-App	7.9
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	ToleranceValue	Pre-App	7.9
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	ToleranceValue	2 week post	7.7
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	ToleranceValue	2 week post	8.0
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	ToleranceValue	2 week post	8.0
Sand Bay Isle	SB-01	Benthos	Copper	Treated	ToleranceValue	1 week post	8.0
Sand Bay Isle	SB-01	Benthos	Copper	Treated	ToleranceValue	1 week post	6.4
Sand Bay Isle	SB-01	Benthos	Copper	Treated	ToleranceValue	1 week post	7.7
Sand Bay Isle	SB-02	Benthos	none	Reference	ToleranceValue	1 week post	7.7
Sand Bay Isle	SB-02	Benthos	none	Reference	ToleranceValue	1 week post	7.9
Sand Bay Isle	SB-02	Benthos	none	Reference	ToleranceValue	1 week post	8.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	ToleranceValue	Pre-App	7.5
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	ToleranceValue	Pre-App	8.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	ToleranceValue	Pre-App	7.7
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	ToleranceValue	Pre-App	8.8
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	ToleranceValue	Pre-App	8.1
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	ToleranceValue	Pre-App	7.5
Stone Lake	SL-01	Benthos	none	Reference	ToleranceValue	4 week post	10.0
Stone Lake	SL-01	Benthos	none	Reference	ToleranceValue	4 week post	9.0
Stone Lake	SL-01	Benthos	none	Reference	ToleranceValue	4 week post	8.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	ToleranceValue	4 week post	8.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	ToleranceValue	4 week post	8.2
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	ToleranceValue	4 week post	9.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	ToleranceValue	4 week post	7.8
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	ToleranceValue	4 week post	6.2
Stone Lake	SL-01	Benthos	none	Reference	ToleranceValue	8 week post	8.0
Stone Lake	SL-01	Benthos	none	Reference	ToleranceValue	8 week post	5.8
Stone Lake	SL-01	Benthos	none	Reference	ToleranceValue	8 week post	8.5
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	ToleranceValue	8 week post	8.4
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	ToleranceValue	8 week post	7.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	ToleranceValue	8 week post	8.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	ToleranceValue	8 week post	8.1
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	ToleranceValue	8 week post	7.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	ToleranceValue	8 week post	7.7
7 Mile Slough	7MILE-01	EI	Diquat	Treated	ToleranceValue	Pre-App	7.7
7 Mile Slough	7MILE-01	EI	Diquat	Treated	ToleranceValue	Pre-App	7.1
7 Mile Slough	7MILE-01	EI	Diquat	Treated	ToleranceValue	Pre-App	7.7
Big Bear Lake	BBC-01	EI	none	Reference	ToleranceValue	2 week post	5.1
Big Bear Lake	BBC-01	EI	none	Reference	ToleranceValue	2 week post	5.5
Big Bear Lake	BBC-01	EI	none	Reference	ToleranceValue	2 week post	8.6
Big Bear Lake	BBP-03	EI	Fluridone	Treated	ToleranceValue	2 week post	5.1
Byrnes Canal	BC-02	EI	Copper	Treated	ToleranceValue	Pre-App	6.6
Byrnes Canal	BC-02	EI	Copper	Treated	ToleranceValue	Pre-App	6.2
Byrnes Canal	BC-02	EI	Copper	Treated	ToleranceValue	2 week post	7.6
Byrnes Canal	BC-02	EI	Copper	Treated	ToleranceValue	2 week post	7.6
Byrnes Canal	BC-02	EI	Copper	Treated	ToleranceValue	2 week post	7.7
Costa Ponds	CP-01	EI	none	Reference	ToleranceValue	Pre-App	7.4
Costa Ponds	CP-01	EI	none	Reference	ToleranceValue	Pre-App	7.6
Costa Ponds	CP-01	EI	none	Reference	ToleranceValue	Pre-App	7.8
Costa Ponds	CP-02	EI	Fluridone	Treated	ToleranceValue	Pre-App	6.8
Costa Ponds	CP-02	EI	Fluridone	Treated	ToleranceValue	Pre-App	6.8
Costa Ponds	CP-02	EI	Fluridone	Treated	ToleranceValue	Pre-App	7.0
Costa Ponds	CP-01	EI	none	Reference	ToleranceValue	2 week post	7.2
Costa Ponds	CP-01	EI	none	Reference	ToleranceValue	2 week post	6.9
Costa Ponds	CP-01	EI	none	Reference	ToleranceValue	2 week post	7.0
Costa Ponds	CP-02	EI	Fluridone	Treated	ToleranceValue	2 week post	6.2
Costa Ponds	CP-02	EI	Fluridone	Treated	ToleranceValue	2 week post	7.1
Costa Ponds	CP-02	EI	Fluridone	Treated	ToleranceValue	2 week post	7.1

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Costa Ponds	CP-01	EI	none	Reference	ToleranceValue	6 week post	6.0
Costa Ponds	CP-01	EI	none	Reference	ToleranceValue	6 week post	5.7
Costa Ponds	CP-01	EI	none	Reference	ToleranceValue	6 week post	7.0
Costa Ponds	CP-02	EI	Fluridone	Treated	ToleranceValue	6 week post	6.6
Costa Ponds	CP-02	EI	Fluridone	Treated	ToleranceValue	6 week post	6.3
Costa Ponds	CP-02	EI	Fluridone	Treated	ToleranceValue	6 week post	6.3
Doris Drain	D-01	EI	Glyphosate	Treated	ToleranceValue	3 hours	7.9
Doris Drain	D-01	EI	Glyphosate	Treated	ToleranceValue	3 hours	8.1
Doris Drain	D-01	EI	Glyphosate	Treated	ToleranceValue	3 hours	8.0
Bear Creek	H-01	EI	Triclopyr	Treated	ToleranceValue	Pre-App	7.7
Bear Creek	H-01	EI	Triclopyr	Treated	ToleranceValue	Pre-App	7.0
Bear Creek	H-01	EI	Triclopyr	Treated	ToleranceValue	Pre-App	7.7
Bear Creek	H-01	EI	Triclopyr	Treated	ToleranceValue	24 hours	7.4
Bear Creek	H-01	EI	Triclopyr	Treated	ToleranceValue	24 hours	7.6
Bear Creek	H-01	EI	Triclopyr	Treated	ToleranceValue	24 hours	7.4
Bear Creek	H-01	EI	Triclopyr	Treated	ToleranceValue	2 week post	6.9
Bear Creek	H-01	EI	Triclopyr	Treated	ToleranceValue	2 week post	7.0
Bear Creek	H-01	EI	Triclopyr	Treated	ToleranceValue	2 week post	7.2
Sand Bay Isle	SB-01	EI	Diquat	Treated	ToleranceValue	Pre-App	8.0
Sand Bay Isle	SB-01	EI	Diquat	Treated	ToleranceValue	2 week post	7.4
Sand Bay Isle	SB-01	EI	Diquat	Treated	ToleranceValue	2 week post	7.6
Sand Bay Isle	SB-01	EI	Diquat	Treated	ToleranceValue	2 week post	7.1
Stone Lake	SL-02	EI	Glyphosate	Treated	ToleranceValue	Pre-App	7.7
Stone Lake	SL-02	EI	Glyphosate	Treated	ToleranceValue	Pre-App	7.8
Stone Lake	SL-01	EI	none	Reference	ToleranceValue	4 week post	8.0
Stone Lake	SL-01	EI	none	Reference	ToleranceValue	4 week post	8.0
Stone Lake	SL-01	EI	none	Reference	ToleranceValue	4 week post	8.0
Stone Lake	SL-02	EI	Glyphosate	Treated	ToleranceValue	4 week post	7.5
Stone Lake	SL-02	EI	Glyphosate	Treated	ToleranceValue	4 week post	7.8
Stone Lake	SL-02	EI	Glyphosate	Treated	ToleranceValue	4 week post	7.9
Stone Lake	SL-01	EI	none	Reference	ToleranceValue	8 week post	8.0
Stone Lake	SL-01	EI	none	Reference	ToleranceValue	8 week post	5.9
Stone Lake	SL-01	EI	none	Reference	ToleranceValue	8 week post	7.0
Stone Lake	SL-02	EI	Glyphosate	Treated	ToleranceValue	8 week post	7.8
Stone Lake	SL-02	EI	Glyphosate	Treated	ToleranceValue	8 week post	7.4
Stone Lake	SL-02	EI	Glyphosate	Treated	ToleranceValue	8 week post	7.6
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	PercentTolerantTaxa	Pre-App	73.7
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	PercentTolerantTaxa	Pre-App	74.6
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	PercentTolerantTaxa	Pre-App	64.9
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	PercentTolerantTaxa	Pre-App	90.5
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	PercentTolerantTaxa	Pre-App	100.0
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	PercentTolerantTaxa	Pre-App	100.0
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	PercentTolerantTaxa	Pre-App	100.0
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	PercentTolerantTaxa	Pre-App	76.9
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	PercentTolerantTaxa	Pre-App	100.0
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	PercentTolerantTaxa	Pre-App	82.1
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	PercentTolerantTaxa	Pre-App	83.8
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	PercentTolerantTaxa	Pre-App	100.0
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	PercentTolerantTaxa	Pre-App	80.0
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	PercentTolerantTaxa	Pre-App	66.7
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	PercentTolerantTaxa	Pre-App	63.4
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	PercentTolerantTaxa	Pre-App	88.9
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	PercentTolerantTaxa	Pre-App	100.0
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	PercentTolerantTaxa	Pre-App	0.0
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	PercentTolerantTaxa	Pre-App	91.7
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	PercentTolerantTaxa	Pre-App	90.9
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	PercentTolerantTaxa	Pre-App	81.6
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	92.7
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	97.2
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	95.6
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	84.8
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	76.7
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	50.0
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	87.5
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	53.6
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	85.2
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	76.5
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	100.0
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	90.0
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	90.7
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	94.8
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	76.4
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	86.7
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	77.2
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	90.6
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	PercentTolerantTaxa	6 week post	100.0

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	PercentTolerantTaxa	6 week post	87.6
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	PercentTolerantTaxa	6 week post	69.6
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	PercentTolerantTaxa	6 week post	80.0
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	PercentTolerantTaxa	6 week post	73.7
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	PercentTolerantTaxa	6 week post	84.2
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	PercentTolerantTaxa	6 week post	62.5
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	PercentTolerantTaxa	6 week post	75.5
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	PercentTolerantTaxa	6 week post	64.5
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	PercentTolerantTaxa	6 week post	95.2
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	PercentTolerantTaxa	6 week post	98.4
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	PercentTolerantTaxa	6 week post	84.6
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	PercentTolerantTaxa	6 week post	80.6
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	PercentTolerantTaxa	6 week post	85.5
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	PercentTolerantTaxa	6 week post	92.4
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	PercentTolerantTaxa	6 week post	30.0
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	PercentTolerantTaxa	6 week post	49.5
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	PercentTolerantTaxa	6 week post	40.7
Big Bear Lake	BBC-01	Benthos	none	Reference	PercentTolerantTaxa	2 week post	99.0
Big Bear Lake	BBC-01	Benthos	none	Reference	PercentTolerantTaxa	2 week post	93.5
Big Bear Lake	BBC-01	Benthos	none	Reference	PercentTolerantTaxa	2 week post	93.1
Big Bear Lake	BBE-01	Benthos	Fluridone	Treated	PercentTolerantTaxa	2 week post	85.3
Big Bear Lake	BBE-01	Benthos	Fluridone	Treated	PercentTolerantTaxa	2 week post	86.5
Big Bear Lake	BBE-01	Benthos	Fluridone	Treated	PercentTolerantTaxa	2 week post	100.0
Big Bear Lake	BBE-02	Benthos	Fluridone	Treated	PercentTolerantTaxa	2 week post	48.8
Big Bear Lake	BBE-02	Benthos	Fluridone	Treated	PercentTolerantTaxa	2 week post	83.0
Big Bear Lake	BBE-02	Benthos	Fluridone	Treated	PercentTolerantTaxa	2 week post	70.4
Big Bear Lake	BBP-01	Benthos	Fluridone	Treated	PercentTolerantTaxa	2 week post	100.0
Big Bear Lake	BBP-01	Benthos	Fluridone	Treated	PercentTolerantTaxa	2 week post	96.9
Big Bear Lake	BBP-01	Benthos	Fluridone	Treated	PercentTolerantTaxa	2 week post	97.9
Big Bear Lake	BBP-02	Benthos	Fluridone	Treated	PercentTolerantTaxa	2 week post	94.7
Big Bear Lake	BBP-02	Benthos	Fluridone	Treated	PercentTolerantTaxa	2 week post	100.0
Big Bear Lake	BBP-02	Benthos	Fluridone	Treated	PercentTolerantTaxa	2 week post	100.0
Big Bear Lake	BBP-03	Benthos	Fluridone	Treated	PercentTolerantTaxa	2 week post	100.0
Big Bear Lake	BBP-03	Benthos	Fluridone	Treated	PercentTolerantTaxa	2 week post	98.9
Big Bear Lake	BBP-03	Benthos	Fluridone	Treated	PercentTolerantTaxa	2 week post	100.0
Byrnes Canal	BC-01	Benthos	Copper	Treated	PercentTolerantTaxa	Pre-App	13.6
Byrnes Canal	BC-01	Benthos	Copper	Treated	PercentTolerantTaxa	Pre-App	5.0
Byrnes Canal	BC-01	Benthos	Copper	Treated	PercentTolerantTaxa	Pre-App	24.0
Byrnes Canal	BC-02	Benthos	Copper	Treated	PercentTolerantTaxa	Pre-App	32.6
Byrnes Canal	BC-02	Benthos	Copper	Treated	PercentTolerantTaxa	Pre-App	18.9
Byrnes Canal	BC-02	Benthos	Copper	Treated	PercentTolerantTaxa	Pre-App	58.8
Byrnes Canal	BC-01	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	31.6
Byrnes Canal	BC-01	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	29.9
Byrnes Canal	BC-01	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	26.6
Byrnes Canal	BC-02	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	78.5
Byrnes Canal	BC-02	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	74.5
Byrnes Canal	BC-02	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	83.1
Costa Ponds	CP-01	Benthos	none	Reference	PercentTolerantTaxa	Pre-App	60.0
Costa Ponds	CP-01	Benthos	none	Reference	PercentTolerantTaxa	Pre-App	0.0
Costa Ponds	CP-01	Benthos	none	Reference	PercentTolerantTaxa	Pre-App	0.0
Costa Ponds	CP-02	Benthos	Fluridone	Treated	PercentTolerantTaxa	Pre-App	89.7
Costa Ponds	CP-02	Benthos	Fluridone	Treated	PercentTolerantTaxa	Pre-App	100.0
Costa Ponds	CP-02	Benthos	Fluridone	Treated	PercentTolerantTaxa	Pre-App	87.9
Costa Ponds	CP-03	Benthos	Fluridone	Treated	PercentTolerantTaxa	Pre-App	100.0
Costa Ponds	CP-03	Benthos	Fluridone	Treated	PercentTolerantTaxa	Pre-App	83.3
Costa Ponds	CP-03	Benthos	Fluridone	Treated	PercentTolerantTaxa	Pre-App	100.0
Costa Ponds	CP-04	Benthos	Fluridone	Treated	PercentTolerantTaxa	Pre-App	100.0
Costa Ponds	CP-04	Benthos	Fluridone	Treated	PercentTolerantTaxa	Pre-App	100.0
Costa Ponds	CP-04	Benthos	Fluridone	Treated	PercentTolerantTaxa	Pre-App	100.0
Costa Ponds	CP-05	Benthos	Fluridone	Treated	PercentTolerantTaxa	Pre-App	70.0
Costa Ponds	CP-05	Benthos	Fluridone	Treated	PercentTolerantTaxa	Pre-App	95.7
Costa Ponds	CP-05	Benthos	Fluridone	Treated	PercentTolerantTaxa	Pre-App	100.0
Costa Ponds	CP-01	Benthos	none	Reference	PercentTolerantTaxa	2 week post	50.0
Costa Ponds	CP-01	Benthos	none	Reference	PercentTolerantTaxa	2 week post	93.8
Costa Ponds	CP-01	Benthos	none	Reference	PercentTolerantTaxa	2 week post	81.8
Costa Ponds	CP-02	Benthos	Fluridone	Treated	PercentTolerantTaxa	2 week post	100.0
Costa Ponds	CP-02	Benthos	Fluridone	Treated	PercentTolerantTaxa	2 week post	100.0
Costa Ponds	CP-02	Benthos	Fluridone	Treated	PercentTolerantTaxa	2 week post	81.8
Costa Ponds	CP-03	Benthos	Fluridone	Treated	PercentTolerantTaxa	2 week post	75.0
Costa Ponds	CP-03	Benthos	Fluridone	Treated	PercentTolerantTaxa	2 week post	90.0
Costa Ponds	CP-03	Benthos	Fluridone	Treated	PercentTolerantTaxa	2 week post	71.4
Costa Ponds	CP-04	Benthos	Fluridone	Treated	PercentTolerantTaxa	2 week post	100.0
Costa Ponds	CP-04	Benthos	Fluridone	Treated	PercentTolerantTaxa	2 week post	100.0
Costa Ponds	CP-04	Benthos	Fluridone	Treated	PercentTolerantTaxa	2 week post	50.0
Costa Ponds	CP-05	Benthos	Fluridone	Treated	PercentTolerantTaxa	2 week post	94.1
Costa Ponds	CP-05	Benthos	Fluridone	Treated	PercentTolerantTaxa	2 week post	97.2

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Costa Ponds	CP-05	Benthos	Fluridone	Treated	PercentTolerantTaxa	2 week post	100.0
Costa Ponds	CP-01	Benthos	none	Reference	PercentTolerantTaxa	6 week post	0.0
Costa Ponds	CP-01	Benthos	none	Reference	PercentTolerantTaxa	6 week post	100.0
Costa Ponds	CP-01	Benthos	none	Reference	PercentTolerantTaxa	6 week post	0.0
Costa Ponds	CP-02	Benthos	Fluridone	Treated	PercentTolerantTaxa	6 week post	61.5
Costa Ponds	CP-02	Benthos	Fluridone	Treated	PercentTolerantTaxa	6 week post	75.0
Costa Ponds	CP-02	Benthos	Fluridone	Treated	PercentTolerantTaxa	6 week post	33.3
Costa Ponds	CP-03	Benthos	Fluridone	Treated	PercentTolerantTaxa	6 week post	86.1
Costa Ponds	CP-03	Benthos	Fluridone	Treated	PercentTolerantTaxa	6 week post	75.0
Costa Ponds	CP-03	Benthos	Fluridone	Treated	PercentTolerantTaxa	6 week post	88.9
Costa Ponds	CP-04	Benthos	Fluridone	Treated	PercentTolerantTaxa	6 week post	86.7
Costa Ponds	CP-04	Benthos	Fluridone	Treated	PercentTolerantTaxa	6 week post	88.9
Costa Ponds	CP-04	Benthos	Fluridone	Treated	PercentTolerantTaxa	6 week post	84.2
Costa Ponds	CP-05	Benthos	Fluridone	Treated	PercentTolerantTaxa	6 week post	97.7
Costa Ponds	CP-05	Benthos	Fluridone	Treated	PercentTolerantTaxa	6 week post	100.0
Costa Ponds	CP-05	Benthos	Fluridone	Treated	PercentTolerantTaxa	6 week post	93.5
Doris Drain	D-01	Benthos	Glyphosate	Treated	PercentTolerantTaxa	3 hours	88.3
Doris Drain	D-01	Benthos	Glyphosate	Treated	PercentTolerantTaxa	3 hours	80.5
Doris Drain	D-01	Benthos	Glyphosate	Treated	PercentTolerantTaxa	3 hours	86.0
Lake Lagunitas	L-01	Benthos	none	Reference	PercentTolerantTaxa	Pre-App	90.9
Lake Lagunitas	L-01	Benthos	none	Reference	PercentTolerantTaxa	Pre-App	69.1
Lake Lagunitas	L-01	Benthos	none	Reference	PercentTolerantTaxa	Pre-App	78.0
Lake Lagunitas	L-01	Benthos	none	Reference	PercentTolerantTaxa	2 week post	38.3
Lake Lagunitas	L-01	Benthos	none	Reference	PercentTolerantTaxa	2 week post	64.1
Lake Lagunitas	L-01	Benthos	none	Reference	PercentTolerantTaxa	2 week post	48.0
Lake Lagunitas	L-01	Benthos	none	Reference	PercentTolerantTaxa	6 week post	69.5
Lake Lagunitas	L-01	Benthos	none	Reference	PercentTolerantTaxa	6 week post	31.4
Lake Lagunitas	L-01	Benthos	none	Reference	PercentTolerantTaxa	6 week post	59.9
Nicasio Reservoir	N-05	Benthos	Copper	Treated	PercentTolerantTaxa	Pre-App	88.9
Nicasio Reservoir	N-05	Benthos	Copper	Treated	PercentTolerantTaxa	Pre-App	97.4
Nicasio Reservoir	N-05	Benthos	Copper	Treated	PercentTolerantTaxa	Pre-App	100.0
Nicasio Reservoir	N-06	Benthos	Copper	Treated	PercentTolerantTaxa	Pre-App	93.5
Nicasio Reservoir	N-06	Benthos	Copper	Treated	PercentTolerantTaxa	Pre-App	95.0
Nicasio Reservoir	N-06	Benthos	Copper	Treated	PercentTolerantTaxa	Pre-App	94.4
Nicasio Reservoir	N-07	Benthos	Copper	Treated	PercentTolerantTaxa	Pre-App	100.0
Nicasio Reservoir	N-07	Benthos	Copper	Treated	PercentTolerantTaxa	Pre-App	94.7
Nicasio Reservoir	N-07	Benthos	Copper	Treated	PercentTolerantTaxa	Pre-App	77.8
Nicasio Reservoir	N-11	Benthos	none	Reference	PercentTolerantTaxa	Pre-App	88.3
Nicasio Reservoir	N-11	Benthos	none	Reference	PercentTolerantTaxa	Pre-App	90.2
Nicasio Reservoir	N-11	Benthos	none	Reference	PercentTolerantTaxa	Pre-App	100.0
Nicasio Reservoir	N-13	Benthos	none	Reference	PercentTolerantTaxa	Pre-App	100.0
Nicasio Reservoir	N-13	Benthos	none	Reference	PercentTolerantTaxa	Pre-App	100.0
Nicasio Reservoir	N-13	Benthos	none	Reference	PercentTolerantTaxa	Pre-App	98.3
Nicasio Reservoir	N-05	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	85.7
Nicasio Reservoir	N-05	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	90.5
Nicasio Reservoir	N-05	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	100.0
Nicasio Reservoir	N-06	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	83.9
Nicasio Reservoir	N-06	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	78.9
Nicasio Reservoir	N-06	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	77.8
Nicasio Reservoir	N-07	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	66.7
Nicasio Reservoir	N-07	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	68.4
Nicasio Reservoir	N-07	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	92.1
Nicasio Reservoir	N-13	Benthos	none	Reference	PercentTolerantTaxa	2 week post	100.0
Nicasio Reservoir	N-13	Benthos	none	Reference	PercentTolerantTaxa	2 week post	100.0
Nicasio Reservoir	N-13	Benthos	none	Reference	PercentTolerantTaxa	2 week post	100.0
Nicasio Reservoir	N-14	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	85.2
Nicasio Reservoir	N-14	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	72.2
Nicasio Reservoir	N-14	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	69.2
East Fork Russian River	PV-01	Benthos	Copper	Treated	PercentTolerantTaxa	Pre-App	80.3
East Fork Russian River	PV-01	Benthos	Copper	Treated	PercentTolerantTaxa	Pre-App	83.0
East Fork Russian River	PV-01	Benthos	Copper	Treated	PercentTolerantTaxa	Pre-App	86.8
East Fork Russian River	PV-01	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	88.3
East Fork Russian River	PV-01	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	85.7
East Fork Russian River	PV-01	Benthos	Copper	Treated	PercentTolerantTaxa	2 week post	94.0
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	PercentTolerantTaxa	Pre-App	64.4
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	PercentTolerantTaxa	Pre-App	85.5
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	PercentTolerantTaxa	Pre-App	81.3
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	PercentTolerantTaxa	2 week post	72.4
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	PercentTolerantTaxa	2 week post	83.3
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	PercentTolerantTaxa	2 week post	88.1
Sand Bay Isle	SB-01	Benthos	Copper	Treated	PercentTolerantTaxa	1 week post	87.6
Sand Bay Isle	SB-01	Benthos	Copper	Treated	PercentTolerantTaxa	1 week post	55.6
Sand Bay Isle	SB-01	Benthos	Copper	Treated	PercentTolerantTaxa	1 week post	90.1
Sand Bay Isle	SB-02	Benthos	none	Reference	PercentTolerantTaxa	1 week post	84.9
Sand Bay Isle	SB-02	Benthos	none	Reference	PercentTolerantTaxa	1 week post	96.6
Sand Bay Isle	SB-02	Benthos	none	Reference	PercentTolerantTaxa	1 week post	100.0

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	PercentTolerantTaxa	Pre-App	50.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	PercentTolerantTaxa	Pre-App	64.3
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	PercentTolerantTaxa	Pre-App	83.3
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	PercentTolerantTaxa	Pre-App	73.1
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	PercentTolerantTaxa	Pre-App	57.9
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	PercentTolerantTaxa	Pre-App	45.0
Stone Lake	SL-01	Benthos	none	Reference	PercentTolerantTaxa	4 week post	100.0
Stone Lake	SL-01	Benthos	none	Reference	PercentTolerantTaxa	4 week post	100.0
Stone Lake	SL-01	Benthos	none	Reference	PercentTolerantTaxa	4 week post	100.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	PercentTolerantTaxa	4 week post	50.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	PercentTolerantTaxa	4 week post	100.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	PercentTolerantTaxa	4 week post	100.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	PercentTolerantTaxa	4 week post	72.7
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	PercentTolerantTaxa	4 week post	11.1
Stone Lake	SL-01	Benthos	none	Reference	PercentTolerantTaxa	8 week post	100.0
Stone Lake	SL-01	Benthos	none	Reference	PercentTolerantTaxa	8 week post	25.0
Stone Lake	SL-01	Benthos	none	Reference	PercentTolerantTaxa	8 week post	50.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	PercentTolerantTaxa	8 week post	84.6
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	PercentTolerantTaxa	8 week post	25.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	PercentTolerantTaxa	8 week post	85.7
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	PercentTolerantTaxa	8 week post	83.3
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	PercentTolerantTaxa	8 week post	40.1
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	PercentTolerantTaxa	8 week post	57.1
7 Mile Slough	7MILE-01	EI	Diquat	Treated	PercentTolerantTaxa	Pre-App	92.2
7 Mile Slough	7MILE-01	EI	Diquat	Treated	PercentTolerantTaxa	Pre-App	69.9
7 Mile Slough	7MILE-01	EI	Diquat	Treated	PercentTolerantTaxa	Pre-App	91.9
Big Bear Lake	BBC-01	EI	none	Reference	PercentTolerantTaxa	2 week post	2.2
Big Bear Lake	BBC-01	EI	none	Reference	PercentTolerantTaxa	2 week post	13.5
Big Bear Lake	BBC-01	EI	none	Reference	PercentTolerantTaxa	2 week post	100.0
Big Bear Lake	BBP-03	EI	Fluridone	Treated	PercentTolerantTaxa	2 week post	2.7
Byrnes Canal	BC-02	EI	Copper	Treated	PercentTolerantTaxa	Pre-App	40.2
Byrnes Canal	BC-02	EI	Copper	Treated	PercentTolerantTaxa	Pre-App	15.8
Byrnes Canal	BC-02	EI	Copper	Treated	PercentTolerantTaxa	2 week post	84.3
Byrnes Canal	BC-02	EI	Copper	Treated	PercentTolerantTaxa	2 week post	83.9
Byrnes Canal	BC-02	EI	Copper	Treated	PercentTolerantTaxa	2 week post	88.4
Costa Ponds	CP-01	EI	none	Reference	PercentTolerantTaxa	Pre-App	67.0
Costa Ponds	CP-01	EI	none	Reference	PercentTolerantTaxa	Pre-App	85.8
Costa Ponds	CP-01	EI	none	Reference	PercentTolerantTaxa	Pre-App	88.8
Costa Ponds	CP-02	EI	Fluridone	Treated	PercentTolerantTaxa	Pre-App	37.9
Costa Ponds	CP-02	EI	Fluridone	Treated	PercentTolerantTaxa	Pre-App	34.7
Costa Ponds	CP-02	EI	Fluridone	Treated	PercentTolerantTaxa	Pre-App	45.6
Costa Ponds	CP-01	EI	none	Reference	PercentTolerantTaxa	2 week post	58.2
Costa Ponds	CP-01	EI	none	Reference	PercentTolerantTaxa	2 week post	57.5
Costa Ponds	CP-01	EI	none	Reference	PercentTolerantTaxa	2 week post	56.4
Costa Ponds	CP-02	EI	Fluridone	Treated	PercentTolerantTaxa	2 week post	10.4
Costa Ponds	CP-02	EI	Fluridone	Treated	PercentTolerantTaxa	2 week post	47.7
Costa Ponds	CP-02	EI	Fluridone	Treated	PercentTolerantTaxa	2 week post	53.2
Costa Ponds	CP-01	EI	none	Reference	PercentTolerantTaxa	6 week post	20.7
Costa Ponds	CP-01	EI	none	Reference	PercentTolerantTaxa	6 week post	10.0
Costa Ponds	CP-01	EI	none	Reference	PercentTolerantTaxa	6 week post	62.8
Costa Ponds	CP-02	EI	Fluridone	Treated	PercentTolerantTaxa	6 week post	29.1
Costa Ponds	CP-02	EI	Fluridone	Treated	PercentTolerantTaxa	6 week post	14.0
Costa Ponds	CP-02	EI	Fluridone	Treated	PercentTolerantTaxa	6 week post	10.0
Doris Drain	D-01	EI	Glyphosate	Treated	PercentTolerantTaxa	3 hours	89.6
Doris Drain	D-01	EI	Glyphosate	Treated	PercentTolerantTaxa	3 hours	91.1
Doris Drain	D-01	EI	Glyphosate	Treated	PercentTolerantTaxa	3 hours	92.4
Bear Creek	H-01	EI	Triclopyr	Treated	PercentTolerantTaxa	Pre-App	60.2
Bear Creek	H-01	EI	Triclopyr	Treated	PercentTolerantTaxa	Pre-App	50.7
Bear Creek	H-01	EI	Triclopyr	Treated	PercentTolerantTaxa	Pre-App	77.1
Bear Creek	H-01	EI	Triclopyr	Treated	PercentTolerantTaxa	24 hours	61.6
Bear Creek	H-01	EI	Triclopyr	Treated	PercentTolerantTaxa	24 hours	67.2
Bear Creek	H-01	EI	Triclopyr	Treated	PercentTolerantTaxa	24 hours	64.9
Bear Creek	H-01	EI	Triclopyr	Treated	PercentTolerantTaxa	2 week post	35.4
Bear Creek	H-01	EI	Triclopyr	Treated	PercentTolerantTaxa	2 week post	39.9
Bear Creek	H-01	EI	Triclopyr	Treated	PercentTolerantTaxa	2 week post	53.7
Sand Bay Isle	SB-01	EI	Diquat	Treated	PercentTolerantTaxa	Pre-App	99.3
Sand Bay Isle	SB-01	EI	Diquat	Treated	PercentTolerantTaxa	2 week post	76.1
Sand Bay Isle	SB-01	EI	Diquat	Treated	PercentTolerantTaxa	2 week post	73.8
Sand Bay Isle	SB-01	EI	Diquat	Treated	PercentTolerantTaxa	2 week post	46.8
Stone Lake	SL-02	EI	Glyphosate	Treated	PercentTolerantTaxa	Pre-App	80.6
Stone Lake	SL-02	EI	Glyphosate	Treated	PercentTolerantTaxa	Pre-App	86.4
Stone Lake	SL-01	EI	none	Reference	PercentTolerantTaxa	4 week post	97.0
Stone Lake	SL-01	EI	none	Reference	PercentTolerantTaxa	4 week post	96.7
Stone Lake	SL-01	EI	none	Reference	PercentTolerantTaxa	4 week post	98.0
Stone Lake	SL-02	EI	Glyphosate	Treated	PercentTolerantTaxa	4 week post	75.3
Stone Lake	SL-02	EI	Glyphosate	Treated	PercentTolerantTaxa	4 week post	87.2

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Stone Lake	SL-02	EI	Glyphosate	Treated	PercentTolerantTaxa	4 week post	93.3
Stone Lake	SL-01	EI	none	Reference	PercentTolerantTaxa	8 week post	100.0
Stone Lake	SL-01	EI	none	Reference	PercentTolerantTaxa	8 week post	41.4
Stone Lake	SL-01	EI	none	Reference	PercentTolerantTaxa	8 week post	66.7
Stone Lake	SL-02	EI	Glyphosate	Treated	PercentTolerantTaxa	8 week post	78.4
Stone Lake	SL-02	EI	Glyphosate	Treated	PercentTolerantTaxa	8 week post	58.8
Stone Lake	SL-02	EI	Glyphosate	Treated	PercentTolerantTaxa	8 week post	67.6
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	Percent Collectors	Pre-App	73.4
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	Percent Collectors	Pre-App	78.8
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	Percent Collectors	Pre-App	60.3
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Collectors	Pre-App	68.4
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Collectors	Pre-App	66.7
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Collectors	Pre-App	100.0
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Collectors	Pre-App	69.0
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Collectors	Pre-App	28.6
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Collectors	Pre-App	58.8
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Collectors	Pre-App	74.3
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Collectors	Pre-App	68.6
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Collectors	Pre-App	100.0
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Collectors	Pre-App	73.3
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Collectors	Pre-App	68.4
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Collectors	Pre-App	42.9
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Collectors	Pre-App	66.7
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Collectors	Pre-App	50.0
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Collectors	Pre-App	33.3
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Collectors	Pre-App	79.2
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Collectors	Pre-App	50.0
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Collectors	Pre-App	65.3
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Collectors	2 week post	60.7
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Collectors	2 week post	81.6
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Collectors	2 week post	81.5
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Collectors	2 week post	45.7
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Collectors	2 week post	44.7
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Collectors	2 week post	43.8
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Collectors	2 week post	12.5
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Collectors	2 week post	41.9
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Collectors	2 week post	52.3
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Collectors	2 week post	76.3
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Collectors	2 week post	77.8
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Collectors	2 week post	85.2
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Collectors	2 week post	88.2
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Collectors	2 week post	80.3
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Collectors	2 week post	49.0
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Collectors	2 week post	82.4
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Collectors	2 week post	68.8
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Collectors	2 week post	75.8
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Collectors	6 week post	73.3
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Collectors	6 week post	70.7
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Collectors	6 week post	50.0
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Collectors	6 week post	31.3
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Collectors	6 week post	60.0
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Collectors	6 week post	63.2
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Collectors	6 week post	56.0
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Collectors	6 week post	77.4
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Collectors	6 week post	59.5
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Collectors	6 week post	92.0
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Collectors	6 week post	95.3
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Collectors	6 week post	83.9
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Collectors	6 week post	60.8
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Collectors	6 week post	74.7
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Collectors	6 week post	56.5
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Collectors	6 week post	21.2
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Collectors	6 week post	41.2
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Collectors	6 week post	25.3
Big Bear Lake	BBC-01	Benthos	none	Reference	Percent Collectors	2 week post	85.6
Big Bear Lake	BBC-01	Benthos	none	Reference	Percent Collectors	2 week post	64.2
Big Bear Lake	BBC-01	Benthos	none	Reference	Percent Collectors	2 week post	89.2
Big Bear Lake	BBE-01	Benthos	Fluridone	Treated	Percent Collectors	2 week post	46.2
Big Bear Lake	BBE-01	Benthos	Fluridone	Treated	Percent Collectors	2 week post	15.4
Big Bear Lake	BBE-01	Benthos	Fluridone	Treated	Percent Collectors	2 week post	17.6
Big Bear Lake	BBE-02	Benthos	Fluridone	Treated	Percent Collectors	2 week post	35.7
Big Bear Lake	BBE-02	Benthos	Fluridone	Treated	Percent Collectors	2 week post	57.2
Big Bear Lake	BBE-02	Benthos	Fluridone	Treated	Percent Collectors	2 week post	53.4
Big Bear Lake	BBP-01	Benthos	Fluridone	Treated	Percent Collectors	2 week post	63.8
Big Bear Lake	BBP-01	Benthos	Fluridone	Treated	Percent Collectors	2 week post	50.0
Big Bear Lake	BBP-01	Benthos	Fluridone	Treated	Percent Collectors	2 week post	84.6

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Big Bear Lake	BBP-02	Benthos	Fluridone	Treated	Percent Collectors	2 week post	91.3
Big Bear Lake	BBP-02	Benthos	Fluridone	Treated	Percent Collectors	2 week post	96.2
Big Bear Lake	BBP-02	Benthos	Fluridone	Treated	Percent Collectors	2 week post	93.8
Big Bear Lake	BBP-03	Benthos	Fluridone	Treated	Percent Collectors	2 week post	57.9
Big Bear Lake	BBP-03	Benthos	Fluridone	Treated	Percent Collectors	2 week post	72.0
Big Bear Lake	BBP-03	Benthos	Fluridone	Treated	Percent Collectors	2 week post	61.3
Byrnes Canal	BC-01	Benthos	Copper	Treated	Percent Collectors	Pre-App	37.1
Byrnes Canal	BC-01	Benthos	Copper	Treated	Percent Collectors	Pre-App	25.0
Byrnes Canal	BC-01	Benthos	Copper	Treated	Percent Collectors	Pre-App	40.0
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Collectors	Pre-App	72.5
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Collectors	Pre-App	63.6
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Collectors	Pre-App	64.3
Byrnes Canal	BC-01	Benthos	Copper	Treated	Percent Collectors	2 week post	42.6
Byrnes Canal	BC-01	Benthos	Copper	Treated	Percent Collectors	2 week post	31.6
Byrnes Canal	BC-01	Benthos	Copper	Treated	Percent Collectors	2 week post	37.5
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Collectors	2 week post	3.3
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Collectors	2 week post	11.5
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Collectors	2 week post	5.2
Costa Ponds	CP-01	Benthos	none	Reference	Percent Collectors	Pre-App	91.7
Costa Ponds	CP-01	Benthos	none	Reference	Percent Collectors	Pre-App	100.0
Costa Ponds	CP-01	Benthos	none	Reference	Percent Collectors	Pre-App	76.9
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Collectors	Pre-App	40.4
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Collectors	Pre-App	17.2
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Collectors	Pre-App	39.2
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Collectors	Pre-App	47.4
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Collectors	Pre-App	71.4
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Collectors	Pre-App	77.8
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Collectors	Pre-App	62.2
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Collectors	Pre-App	55.3
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Collectors	Pre-App	42.9
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Collectors	Pre-App	63.2
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Collectors	Pre-App	56.5
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Collectors	Pre-App	67.6
Costa Ponds	CP-01	Benthos	none	Reference	Percent Collectors	2 week post	92.9
Costa Ponds	CP-01	Benthos	none	Reference	Percent Collectors	2 week post	87.5
Costa Ponds	CP-01	Benthos	none	Reference	Percent Collectors	2 week post	72.7
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Collectors	2 week post	44.4
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Collectors	2 week post	40.0
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Collectors	2 week post	66.7
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Collectors	2 week post	63.6
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Collectors	2 week post	53.8
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Collectors	2 week post	18.8
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Collectors	2 week post	72.7
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Collectors	2 week post	80.0
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Collectors	2 week post	94.4
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Collectors	2 week post	73.9
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Collectors	2 week post	68.2
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Collectors	2 week post	67.6
Costa Ponds	CP-01	Benthos	none	Reference	Percent Collectors	6 week post	96.9
Costa Ponds	CP-01	Benthos	none	Reference	Percent Collectors	6 week post	95.0
Costa Ponds	CP-01	Benthos	none	Reference	Percent Collectors	6 week post	100.0
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Collectors	6 week post	41.4
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Collectors	6 week post	29.4
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Collectors	6 week post	33.3
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Collectors	6 week post	40.5
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Collectors	6 week post	25.0
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Collectors	6 week post	63.0
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Collectors	6 week post	50.0
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Collectors	6 week post	58.3
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Collectors	6 week post	62.5
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Collectors	6 week post	80.0
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Collectors	6 week post	88.2
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Collectors	6 week post	74.3
Doris Drain	D-01	Benthos	Glyphosate	Treated	Percent Collectors	3 hours	95.3
Doris Drain	D-01	Benthos	Glyphosate	Treated	Percent Collectors	3 hours	93.2
Doris Drain	D-01	Benthos	Glyphosate	Treated	Percent Collectors	3 hours	95.0
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Collectors	Pre-App	41.7
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Collectors	Pre-App	19.3
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Collectors	Pre-App	25.6
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Collectors	2 week post	61.0
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Collectors	2 week post	52.1
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Collectors	2 week post	67.3
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Collectors	6 week post	72.0
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Collectors	6 week post	36.1
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Collectors	6 week post	62.9
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Collectors	Pre-App	85.2

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Collectors	Pre-App	79.5
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Collectors	Pre-App	83.3
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Collectors	Pre-App	45.2
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Collectors	Pre-App	25.0
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Collectors	Pre-App	33.3
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Collectors	Pre-App	17.6
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Collectors	Pre-App	28.9
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Collectors	Pre-App	22.2
Nicasio Reservoir	N-11	Benthos	none	Reference	Percent Collectors	Pre-App	66.7
Nicasio Reservoir	N-11	Benthos	none	Reference	Percent Collectors	Pre-App	65.4
Nicasio Reservoir	N-11	Benthos	none	Reference	Percent Collectors	Pre-App	72.5
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Collectors	Pre-App	75.0
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Collectors	Pre-App	87.9
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Collectors	Pre-App	66.7
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Collectors	2 week post	46.7
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Collectors	2 week post	56.5
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Collectors	2 week post	72.7
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Collectors	2 week post	61.3
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Collectors	2 week post	38.1
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Collectors	2 week post	40.7
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Collectors	2 week post	22.2
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Collectors	2 week post	48.9
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Collectors	2 week post	42.1
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Collectors	2 week post	92.3
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Collectors	2 week post	80.6
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Collectors	2 week post	91.7
Nicasio Reservoir	N-14	Benthos	Copper	Treated	Percent Collectors	2 week post	77.4
Nicasio Reservoir	N-14	Benthos	Copper	Treated	Percent Collectors	2 week post	52.6
Nicasio Reservoir	N-14	Benthos	Copper	Treated	Percent Collectors	2 week post	51.9
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Collectors	Pre-App	83.7
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Collectors	Pre-App	83.0
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Collectors	Pre-App	76.4
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Collectors	2 week post	85.3
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Collectors	2 week post	89.7
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Collectors	2 week post	91.0
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Collectors	Pre-App	19.6
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Collectors	Pre-App	20.5
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Collectors	Pre-App	17.0
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Collectors	2 week post	34.0
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Collectors	2 week post	34.8
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Collectors	2 week post	24.2
Sand Bay Isle	SB-01	Benthos	Copper	Treated	Percent Collectors	1 week post	22.1
Sand Bay Isle	SB-01	Benthos	Copper	Treated	Percent Collectors	1 week post	10.2
Sand Bay Isle	SB-01	Benthos	Copper	Treated	Percent Collectors	1 week post	34.5
Sand Bay Isle	SB-02	Benthos	none	Reference	Percent Collectors	1 week post	15.2
Sand Bay Isle	SB-02	Benthos	none	Reference	Percent Collectors	1 week post	0.5
Sand Bay Isle	SB-02	Benthos	none	Reference	Percent Collectors	1 week post	0.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Collectors	Pre-App	100.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Collectors	Pre-App	81.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Collectors	Pre-App	82.6
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Collectors	Pre-App	91.1
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Collectors	Pre-App	91.4
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Collectors	Pre-App	71.1
Stone Lake	SL-01	Benthos	none	Reference	Percent Collectors	4 week post	50.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Collectors	4 week post	100.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Collectors	4 week post	90.5
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Collectors	4 week post	50.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Collectors	4 week post	87.5
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Collectors	4 week post	50.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Collectors	4 week post	67.9
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Collectors	4 week post	0.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Collectors	8 week post	100.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Collectors	8 week post	75.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Collectors	8 week post	100.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Collectors	8 week post	64.7
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Collectors	8 week post	75.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Collectors	8 week post	77.8
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Collectors	8 week post	52.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Collectors	8 week post	55.9
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Collectors	8 week post	61.5
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Percent Collectors	Pre-App	90.0
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Percent Collectors	Pre-App	88.9
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Percent Collectors	Pre-App	89.0
Big Bear Lake	BBC-01	EI	none	Reference	Percent Collectors	2 week post	56.0
Big Bear Lake	BBC-01	EI	none	Reference	Percent Collectors	2 week post	20.5
Big Bear Lake	BBC-01	EI	none	Reference	Percent Collectors	2 week post	92.3

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Big Bear Lake	BBP-03	EI	Fluridone	Treated	Percent Collectors	2 week post	6.8
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Collectors	Pre-App	6.8
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Collectors	Pre-App	10.4
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Collectors	2 week post	12.0
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Collectors	2 week post	8.9
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Collectors	2 week post	10.3
Costa Ponds	CP-01	EI	none	Reference	Percent Collectors	Pre-App	73.1
Costa Ponds	CP-01	EI	none	Reference	Percent Collectors	Pre-App	87.3
Costa Ponds	CP-01	EI	none	Reference	Percent Collectors	Pre-App	91.8
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Collectors	Pre-App	35.2
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Collectors	Pre-App	40.9
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Collectors	Pre-App	29.6
Costa Ponds	CP-01	EI	none	Reference	Percent Collectors	2 week post	74.1
Costa Ponds	CP-01	EI	none	Reference	Percent Collectors	2 week post	67.3
Costa Ponds	CP-01	EI	none	Reference	Percent Collectors	2 week post	71.0
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Collectors	2 week post	53.7
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Collectors	2 week post	40.1
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Collectors	2 week post	40.8
Costa Ponds	CP-01	EI	none	Reference	Percent Collectors	6 week post	51.0
Costa Ponds	CP-01	EI	none	Reference	Percent Collectors	6 week post	27.5
Costa Ponds	CP-01	EI	none	Reference	Percent Collectors	6 week post	73.4
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Collectors	6 week post	21.6
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Collectors	6 week post	68.9
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Collectors	6 week post	72.6
Doris Drain	D-01	EI	Glyphosate	Treated	Percent Collectors	3 hours	23.9
Doris Drain	D-01	EI	Glyphosate	Treated	Percent Collectors	3 hours	32.3
Doris Drain	D-01	EI	Glyphosate	Treated	Percent Collectors	3 hours	32.2
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Collectors	Pre-App	80.5
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Collectors	Pre-App	90.6
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Collectors	Pre-App	73.1
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Collectors	24 hours	78.8
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Collectors	24 hours	77.3
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Collectors	24 hours	81.7
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Collectors	2 week post	77.6
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Collectors	2 week post	79.3
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Collectors	2 week post	75.0
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Collectors	Pre-App	6.7
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Collectors	2 week post	23.7
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Collectors	2 week post	38.4
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Collectors	2 week post	29.1
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Collectors	Pre-App	82.3
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Collectors	Pre-App	86.6
Stone Lake	SL-01	EI	none	Reference	Percent Collectors	4 week post	90.3
Stone Lake	SL-01	EI	none	Reference	Percent Collectors	4 week post	86.7
Stone Lake	SL-01	EI	none	Reference	Percent Collectors	4 week post	88.6
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Collectors	4 week post	75.3
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Collectors	4 week post	85.6
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Collectors	4 week post	89.9
Stone Lake	SL-01	EI	none	Reference	Percent Collectors	8 week post	85.7
Stone Lake	SL-01	EI	none	Reference	Percent Collectors	8 week post	86.4
Stone Lake	SL-01	EI	none	Reference	Percent Collectors	8 week post	96.4
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Collectors	8 week post	75.8
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Collectors	8 week post	68.2
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Collectors	8 week post	83.4
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	Percent Filterers	Pre-App	0.0
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	Percent Filterers	Pre-App	0.0
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	Percent Filterers	Pre-App	0.0
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Filterers	Pre-App	0.0
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Filterers	Pre-App	0.0
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Filterers	Pre-App	0.0
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Filterers	Pre-App	0.0
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Filterers	Pre-App	0.0
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Filterers	Pre-App	0.0
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Filterers	Pre-App	0.0
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Filterers	Pre-App	0.0
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Filterers	Pre-App	0.0
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Filterers	Pre-App	0.0
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Filterers	Pre-App	0.0
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Filterers	Pre-App	2.4
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Filterers	Pre-App	0.0
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Filterers	Pre-App	0.0
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Filterers	Pre-App	33.3
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Filterers	Pre-App	4.2
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Filterers	Pre-App	18.2
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Filterers	Pre-App	0.0
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Filterers	2 week post	28.6

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Filterers	Pre-App	3.3
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Filterers	Pre-App	5.3
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Filterers	Pre-App	16.4
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Filterers	2 week post	7.9
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Filterers	2 week post	5.1
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Filterers	2 week post	3.4
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Filterers	Pre-App	39.1
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Filterers	Pre-App	19.7
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Filterers	Pre-App	26.8
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Filterers	2 week post	22.3
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Filterers	2 week post	22.0
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Filterers	2 week post	6.2
Sand Bay Isle	SB-01	Benthos	Copper	Treated	Percent Filterers	1 week post	0.0
Sand Bay Isle	SB-01	Benthos	Copper	Treated	Percent Filterers	1 week post	0.0
Sand Bay Isle	SB-01	Benthos	Copper	Treated	Percent Filterers	1 week post	0.0
Sand Bay Isle	SB-02	Benthos	none	Reference	Percent Filterers	1 week post	0.0
Sand Bay Isle	SB-02	Benthos	none	Reference	Percent Filterers	1 week post	0.5
Sand Bay Isle	SB-02	Benthos	none	Reference	Percent Filterers	1 week post	0.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Filterers	Pre-App	0.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Filterers	Pre-App	1.7
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Filterers	Pre-App	4.3
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Filterers	Pre-App	1.3
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Filterers	Pre-App	0.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Filterers	Pre-App	0.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Filterers	4 week post	0.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Filterers	4 week post	0.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Filterers	4 week post	0.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Filterers	4 week post	0.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Filterers	4 week post	0.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Filterers	4 week post	0.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Filterers	4 week post	3.8
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Filterers	4 week post	0.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Filterers	8 week post	0.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Filterers	8 week post	0.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Filterers	8 week post	0.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Filterers	8 week post	11.8
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Filterers	8 week post	0.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Filterers	8 week post	0.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Filterers	8 week post	4.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Filterers	8 week post	0.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Filterers	8 week post	0.0
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Percent Filterers	Pre-App	0.0
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Percent Filterers	Pre-App	0.0
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Percent Filterers	Pre-App	0.0
Big Bear Lake	BBC-01	EI	none	Reference	Percent Filterers	2 week post	0.0
Big Bear Lake	BBC-01	EI	none	Reference	Percent Filterers	2 week post	0.0
Big Bear Lake	BBC-01	EI	none	Reference	Percent Filterers	2 week post	0.0
Big Bear Lake	BBP-03	EI	Fluridone	Treated	Percent Filterers	2 week post	0.0
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Filterers	Pre-App	0.0
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Filterers	Pre-App	2.1
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Filterers	2 week post	0.0
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Filterers	2 week post	0.9
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Filterers	2 week post	0.6
Costa Ponds	CP-01	EI	none	Reference	Percent Filterers	Pre-App	0.0
Costa Ponds	CP-01	EI	none	Reference	Percent Filterers	Pre-App	0.3
Costa Ponds	CP-01	EI	none	Reference	Percent Filterers	Pre-App	0.0
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Filterers	Pre-App	0.0
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Filterers	Pre-App	0.0
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Filterers	Pre-App	0.0
Costa Ponds	CP-01	EI	none	Reference	Percent Filterers	2 week post	0.0
Costa Ponds	CP-01	EI	none	Reference	Percent Filterers	2 week post	0.0
Costa Ponds	CP-01	EI	none	Reference	Percent Filterers	2 week post	0.0
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Filterers	2 week post	0.0
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Filterers	2 week post	0.0
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Filterers	2 week post	0.0
Costa Ponds	CP-01	EI	none	Reference	Percent Filterers	6 week post	0.0
Costa Ponds	CP-01	EI	none	Reference	Percent Filterers	6 week post	0.0
Costa Ponds	CP-01	EI	none	Reference	Percent Filterers	6 week post	0.0
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Filterers	6 week post	0.0
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Filterers	6 week post	0.0
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Filterers	6 week post	0.0
Doris Drain	D-01	EI	Glyphosate	Treated	Percent Filterers	3 hours	0.0
Doris Drain	D-01	EI	Glyphosate	Treated	Percent Filterers	3 hours	0.4
Doris Drain	D-01	EI	Glyphosate	Treated	Percent Filterers	3 hours	0.0
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Filterers	Pre-App	0.3
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Filterers	Pre-App	1.7

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Filterers	Pre-App	0.0
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Filterers	24 hours	0.3
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Filterers	24 hours	0.6
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Filterers	24 hours	0.7
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Filterers	2 week post	1.9
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Filterers	2 week post	1.9
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Filterers	2 week post	0.0
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Filterers	Pre-App	1.0
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Filterers	2 week post	1.5
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Filterers	2 week post	2.7
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Filterers	2 week post	44.7
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Filterers	Pre-App	0.0
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Filterers	Pre-App	0.0
Stone Lake	SL-01	EI	none	Reference	Percent Filterers	4 week post	0.0
Stone Lake	SL-01	EI	none	Reference	Percent Filterers	4 week post	0.0
Stone Lake	SL-01	EI	none	Reference	Percent Filterers	4 week post	0.0
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Filterers	4 week post	0.7
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Filterers	4 week post	0.0
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Filterers	4 week post	0.3
Stone Lake	SL-01	EI	none	Reference	Percent Filterers	8 week post	0.0
Stone Lake	SL-01	EI	none	Reference	Percent Filterers	8 week post	0.0
Stone Lake	SL-01	EI	none	Reference	Percent Filterers	8 week post	0.0
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Filterers	8 week post	0.0
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Filterers	8 week post	0.0
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Filterers	8 week post	0.2
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	Percent Predators	Pre-App	24.1
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	Percent Predators	Pre-App	21.2
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	Percent Predators	Pre-App	38.4
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Predators	Pre-App	31.6
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Predators	Pre-App	33.3
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Predators	Pre-App	0.0
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Predators	Pre-App	31.0
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Predators	Pre-App	71.4
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Predators	Pre-App	41.2
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Predators	Pre-App	23.0
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Predators	Pre-App	28.6
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Predators	Pre-App	0.0
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Predators	Pre-App	6.7
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Predators	Pre-App	5.3
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Predators	Pre-App	26.2
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Predators	Pre-App	22.2
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Predators	Pre-App	50.0
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Predators	Pre-App	0.0
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Predators	Pre-App	16.7
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Predators	Pre-App	27.3
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Predators	Pre-App	30.6
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Predators	2 week post	7.1
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Predators	2 week post	11.8
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Predators	2 week post	13.6
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Predators	2 week post	39.1
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Predators	2 week post	50.0
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Predators	2 week post	31.3
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Predators	2 week post	75.0
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Predators	2 week post	19.4
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Predators	2 week post	38.5
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Predators	2 week post	3.4
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Predators	2 week post	22.2
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Predators	2 week post	7.4
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Predators	2 week post	6.4
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Predators	2 week post	11.1
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Predators	2 week post	16.3
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Predators	2 week post	5.9
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Predators	2 week post	17.2
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Predators	2 week post	3.0
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Predators	6 week post	6.7
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Predators	6 week post	25.6
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Predators	6 week post	21.9
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Predators	6 week post	68.8
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Predators	6 week post	35.0
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Predators	6 week post	36.8
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Predators	6 week post	22.0
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Predators	6 week post	17.7
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Predators	6 week post	37.8
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Predators	6 week post	6.0
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Predators	6 week post	3.1
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Predators	6 week post	12.9

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Predators	6 week post	25.5
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Predators	6 week post	16.1
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Predators	6 week post	12.9
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Predators	6 week post	30.3
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Predators	6 week post	17.6
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Predators	6 week post	21.1
Big Bear Lake	BBC-01	Benthos	none	Reference	Percent Predators	2 week post	13.5
Big Bear Lake	BBC-01	Benthos	none	Reference	Percent Predators	2 week post	35.8
Big Bear Lake	BBC-01	Benthos	none	Reference	Percent Predators	2 week post	8.5
Big Bear Lake	BBE-01	Benthos	Fluridone	Treated	Percent Predators	2 week post	51.3
Big Bear Lake	BBE-01	Benthos	Fluridone	Treated	Percent Predators	2 week post	84.6
Big Bear Lake	BBE-01	Benthos	Fluridone	Treated	Percent Predators	2 week post	82.4
Big Bear Lake	BBE-02	Benthos	Fluridone	Treated	Percent Predators	2 week post	26.2
Big Bear Lake	BBE-02	Benthos	Fluridone	Treated	Percent Predators	2 week post	16.5
Big Bear Lake	BBE-02	Benthos	Fluridone	Treated	Percent Predators	2 week post	27.2
Big Bear Lake	BBP-01	Benthos	Fluridone	Treated	Percent Predators	2 week post	36.2
Big Bear Lake	BBP-01	Benthos	Fluridone	Treated	Percent Predators	2 week post	50.0
Big Bear Lake	BBP-01	Benthos	Fluridone	Treated	Percent Predators	2 week post	13.8
Big Bear Lake	BBP-02	Benthos	Fluridone	Treated	Percent Predators	2 week post	8.7
Big Bear Lake	BBP-02	Benthos	Fluridone	Treated	Percent Predators	2 week post	3.8
Big Bear Lake	BBP-02	Benthos	Fluridone	Treated	Percent Predators	2 week post	6.3
Big Bear Lake	BBP-03	Benthos	Fluridone	Treated	Percent Predators	2 week post	42.1
Big Bear Lake	BBP-03	Benthos	Fluridone	Treated	Percent Predators	2 week post	28.0
Big Bear Lake	BBP-03	Benthos	Fluridone	Treated	Percent Predators	2 week post	38.8
Byrnes Canal	BC-01	Benthos	Copper	Treated	Percent Predators	Pre-App	0.0
Byrnes Canal	BC-01	Benthos	Copper	Treated	Percent Predators	Pre-App	0.0
Byrnes Canal	BC-01	Benthos	Copper	Treated	Percent Predators	Pre-App	5.0
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Predators	Pre-App	15.9
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Predators	Pre-App	22.7
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Predators	Pre-App	28.6
Byrnes Canal	BC-01	Benthos	Copper	Treated	Percent Predators	2 week post	34.6
Byrnes Canal	BC-01	Benthos	Copper	Treated	Percent Predators	2 week post	26.5
Byrnes Canal	BC-01	Benthos	Copper	Treated	Percent Predators	2 week post	21.0
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Predators	2 week post	26.8
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Predators	2 week post	39.1
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Predators	2 week post	32.5
Costa Ponds	CP-01	Benthos	none	Reference	Percent Predators	Pre-App	8.3
Costa Ponds	CP-01	Benthos	none	Reference	Percent Predators	Pre-App	0.0
Costa Ponds	CP-01	Benthos	none	Reference	Percent Predators	Pre-App	23.1
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Predators	Pre-App	59.6
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Predators	Pre-App	82.8
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Predators	Pre-App	60.8
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Predators	Pre-App	5.3
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Predators	Pre-App	28.6
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Predators	Pre-App	22.2
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Predators	Pre-App	37.8
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Predators	Pre-App	44.7
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Predators	Pre-App	55.1
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Predators	Pre-App	36.8
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Predators	Pre-App	43.5
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Predators	Pre-App	32.4
Costa Ponds	CP-01	Benthos	none	Reference	Percent Predators	2 week post	7.1
Costa Ponds	CP-01	Benthos	none	Reference	Percent Predators	2 week post	12.5
Costa Ponds	CP-01	Benthos	none	Reference	Percent Predators	2 week post	27.3
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Predators	2 week post	55.6
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Predators	2 week post	60.0
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Predators	2 week post	33.3
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Predators	2 week post	36.4
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Predators	2 week post	46.2
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Predators	2 week post	81.3
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Predators	2 week post	27.3
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Predators	2 week post	20.0
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Predators	2 week post	0.0
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Predators	2 week post	26.1
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Predators	2 week post	31.8
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Predators	2 week post	32.4
Costa Ponds	CP-01	Benthos	none	Reference	Percent Predators	6 week post	3.1
Costa Ponds	CP-01	Benthos	none	Reference	Percent Predators	6 week post	5.0
Costa Ponds	CP-01	Benthos	none	Reference	Percent Predators	6 week post	0.0
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Predators	6 week post	58.6
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Predators	6 week post	70.6
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Predators	6 week post	66.7
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Predators	6 week post	57.1
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Predators	6 week post	75.0
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Predators	6 week post	37.0
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Predators	6 week post	50.0

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Predators	6 week post	41.7
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Predators	6 week post	37.5
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Predators	6 week post	20.0
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Predators	6 week post	11.8
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Predators	6 week post	25.7
Doris Drain	D-01	Benthos	Glyphosate	Treated	Percent Predators	3 hours	0.6
Doris Drain	D-01	Benthos	Glyphosate	Treated	Percent Predators	3 hours	0.5
Doris Drain	D-01	Benthos	Glyphosate	Treated	Percent Predators	3 hours	0.0
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Predators	Pre-App	58.3
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Predators	Pre-App	42.1
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Predators	Pre-App	61.5
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Predators	2 week post	5.2
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Predators	2 week post	16.7
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Predators	2 week post	14.5
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Predators	6 week post	11.4
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Predators	6 week post	30.6
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Predators	6 week post	24.7
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Predators	Pre-App	14.8
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Predators	Pre-App	20.5
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Predators	Pre-App	8.3
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Predators	Pre-App	45.2
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Predators	Pre-App	70.0
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Predators	Pre-App	55.6
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Predators	Pre-App	58.8
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Predators	Pre-App	26.3
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Predators	Pre-App	27.8
Nicasio Reservoir	N-11	Benthos	none	Reference	Percent Predators	Pre-App	19.0
Nicasio Reservoir	N-11	Benthos	none	Reference	Percent Predators	Pre-App	11.5
Nicasio Reservoir	N-11	Benthos	none	Reference	Percent Predators	Pre-App	23.5
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Predators	Pre-App	21.4
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Predators	Pre-App	9.1
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Predators	Pre-App	33.3
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Predators	2 week post	40.0
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Predators	2 week post	39.1
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Predators	2 week post	27.3
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Predators	2 week post	29.0
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Predators	2 week post	47.6
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Predators	2 week post	33.3
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Predators	2 week post	22.2
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Predators	2 week post	42.6
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Predators	2 week post	44.7
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Predators	2 week post	7.7
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Predators	2 week post	14.9
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Predators	2 week post	8.3
Nicasio Reservoir	N-14	Benthos	Copper	Treated	Percent Predators	2 week post	6.5
Nicasio Reservoir	N-14	Benthos	Copper	Treated	Percent Predators	2 week post	21.1
Nicasio Reservoir	N-14	Benthos	Copper	Treated	Percent Predators	2 week post	33.3
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Predators	Pre-App	2.9
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Predators	Pre-App	4.3
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Predators	Pre-App	3.6
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Predators	2 week post	2.6
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Predators	2 week post	1.0
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Predators	2 week post	3.1
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Predators	Pre-App	32.6
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Predators	Pre-App	8.3
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Predators	Pre-App	15.2
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Predators	2 week post	23.1
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Predators	2 week post	11.6
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Predators	2 week post	11.2
Sand Bay Isle	SB-01	Benthos	Copper	Treated	Percent Predators	1 week post	2.6
Sand Bay Isle	SB-01	Benthos	Copper	Treated	Percent Predators	1 week post	36.2
Sand Bay Isle	SB-01	Benthos	Copper	Treated	Percent Predators	1 week post	6.7
Sand Bay Isle	SB-02	Benthos	none	Reference	Percent Predators	1 week post	1.6
Sand Bay Isle	SB-02	Benthos	none	Reference	Percent Predators	1 week post	1.5
Sand Bay Isle	SB-02	Benthos	none	Reference	Percent Predators	1 week post	0.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Predators	Pre-App	0.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Predators	Pre-App	14.7
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Predators	Pre-App	13.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Predators	Pre-App	7.6
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Predators	Pre-App	7.1
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Predators	Pre-App	28.9
Stone Lake	SL-01	Benthos	none	Reference	Percent Predators	4 week post	50.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Predators	4 week post	0.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Predators	4 week post	4.8
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Predators	4 week post	50.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Predators	4 week post	12.5

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Predators	4 week post	50.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Predators	4 week post	28.3
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Predators	4 week post	75.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Predators	8 week post	0.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Predators	8 week post	25.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Predators	8 week post	0.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Predators	8 week post	17.6
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Predators	8 week post	25.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Predators	8 week post	11.1
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Predators	8 week post	44.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Predators	8 week post	44.1
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Predators	8 week post	38.5
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Percent Predators	Pre-App	7.5
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Percent Predators	Pre-App	10.5
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Percent Predators	Pre-App	9.1
Big Bear Lake	BBC-01	EI	none	Reference	Percent Predators	2 week post	44.0
Big Bear Lake	BBC-01	EI	none	Reference	Percent Predators	2 week post	77.3
Big Bear Lake	BBC-01	EI	none	Reference	Percent Predators	2 week post	7.7
Big Bear Lake	BBP-03	EI	Fluridone	Treated	Percent Predators	2 week post	93.2
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Predators	Pre-App	52.7
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Predators	Pre-App	39.6
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Predators	2 week post	11.7
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Predators	2 week post	19.2
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Predators	2 week post	7.1
Costa Ponds	CP-01	EI	none	Reference	Percent Predators	Pre-App	21.2
Costa Ponds	CP-01	EI	none	Reference	Percent Predators	Pre-App	9.9
Costa Ponds	CP-01	EI	none	Reference	Percent Predators	Pre-App	8.2
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Predators	Pre-App	38.8
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Predators	Pre-App	33.6
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Predators	Pre-App	39.6
Costa Ponds	CP-01	EI	none	Reference	Percent Predators	2 week post	25.2
Costa Ponds	CP-01	EI	none	Reference	Percent Predators	2 week post	28.1
Costa Ponds	CP-01	EI	none	Reference	Percent Predators	2 week post	27.3
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Predators	2 week post	39.3
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Predators	2 week post	27.3
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Predators	2 week post	35.0
Costa Ponds	CP-01	EI	none	Reference	Percent Predators	6 week post	44.9
Costa Ponds	CP-01	EI	none	Reference	Percent Predators	6 week post	70.2
Costa Ponds	CP-01	EI	none	Reference	Percent Predators	6 week post	25.6
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Predators	6 week post	56.8
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Predators	6 week post	24.6
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Predators	6 week post	25.1
Doris Drain	D-01	EI	Glyphosate	Treated	Percent Predators	3 hours	1.8
Doris Drain	D-01	EI	Glyphosate	Treated	Percent Predators	3 hours	2.8
Doris Drain	D-01	EI	Glyphosate	Treated	Percent Predators	3 hours	0.8
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Predators	Pre-App	17.9
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Predators	Pre-App	6.6
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Predators	Pre-App	20.9
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Predators	24 hours	20.1
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Predators	24 hours	19.2
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Predators	24 hours	15.0
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Predators	2 week post	19.9
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Predators	2 week post	16.0
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Predators	2 week post	19.0
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Predators	Pre-App	1.3
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Predators	2 week post	13.0
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Predators	2 week post	4.5
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Predators	2 week post	7.8
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Predators	Pre-App	7.3
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Predators	Pre-App	2.4
Stone Lake	SL-01	EI	none	Reference	Percent Predators	4 week post	3.6
Stone Lake	SL-01	EI	none	Reference	Percent Predators	4 week post	8.7
Stone Lake	SL-01	EI	none	Reference	Percent Predators	4 week post	4.6
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Predators	4 week post	8.0
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Predators	4 week post	4.2
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Predators	4 week post	5.5
Stone Lake	SL-01	EI	none	Reference	Percent Predators	8 week post	0.0
Stone Lake	SL-01	EI	none	Reference	Percent Predators	8 week post	0.0
Stone Lake	SL-01	EI	none	Reference	Percent Predators	8 week post	0.0
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Predators	8 week post	16.3
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Predators	8 week post	19.0
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Predators	8 week post	13.1
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	Percent Grazers	Pre-App	2.5
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	Percent Grazers	Pre-App	0.0
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	Percent Grazers	Pre-App	1.4
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Grazers	Pre-App	0.0

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Grazers	Pre-App	0.0
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Grazers	Pre-App	0.0
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Grazers	Pre-App	0.0
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Grazers	2 week post	13.3
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Grazers	2 week post	4.3
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Grazers	2 week post	0.0
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Grazers	2 week post	6.5
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Grazers	2 week post	4.8
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Grazers	2 week post	14.8
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Grazers	2 week post	11.1
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Grazers	2 week post	4.3
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Grazers	2 week post	0.0
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Grazers	2 week post	0.0
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Grazers	2 week post	0.0
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Grazers	2 week post	0.0
Nicasio Reservoir	N-14	Benthos	Copper	Treated	Percent Grazers	2 week post	0.0
Nicasio Reservoir	N-14	Benthos	Copper	Treated	Percent Grazers	2 week post	15.8
Nicasio Reservoir	N-14	Benthos	Copper	Treated	Percent Grazers	2 week post	11.1
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Grazers	Pre-App	10.1
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Grazers	Pre-App	7.4
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Grazers	Pre-App	3.6
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Grazers	2 week post	4.1
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Grazers	2 week post	4.1
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Grazers	2 week post	2.5
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Grazers	Pre-App	8.7
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Grazers	Pre-App	51.5
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Grazers	Pre-App	41.1
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Grazers	2 week post	20.6
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Grazers	2 week post	31.7
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Grazers	2 week post	58.4
Sand Bay Isle	SB-01	Benthos	Copper	Treated	Percent Grazers	1 week post	75.3
Sand Bay Isle	SB-01	Benthos	Copper	Treated	Percent Grazers	1 week post	53.6
Sand Bay Isle	SB-01	Benthos	Copper	Treated	Percent Grazers	1 week post	58.8
Sand Bay Isle	SB-02	Benthos	none	Reference	Percent Grazers	1 week post	83.2
Sand Bay Isle	SB-02	Benthos	none	Reference	Percent Grazers	1 week post	97.5
Sand Bay Isle	SB-02	Benthos	none	Reference	Percent Grazers	1 week post	100.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Grazers	Pre-App	0.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Grazers	Pre-App	2.6
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Grazers	Pre-App	0.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Grazers	Pre-App	0.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Grazers	Pre-App	1.4
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Grazers	Pre-App	0.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Grazers	4 week post	0.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Grazers	4 week post	0.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Grazers	4 week post	4.8
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Grazers	4 week post	0.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Grazers	4 week post	0.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Grazers	4 week post	0.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Grazers	4 week post	0.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Grazers	4 week post	25.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Grazers	8 week post	0.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Grazers	8 week post	0.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Grazers	8 week post	0.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Grazers	8 week post	5.9
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Grazers	8 week post	0.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Grazers	8 week post	11.1
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Grazers	8 week post	0.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Grazers	8 week post	0.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Grazers	8 week post	0.0
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Percent Grazers	Pre-App	2.5
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Percent Grazers	Pre-App	0.6
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Percent Grazers	Pre-App	1.9
Big Bear Lake	BBC-01	EI	none	Reference	Percent Grazers	2 week post	0.0
Big Bear Lake	BBC-01	EI	none	Reference	Percent Grazers	2 week post	2.3
Big Bear Lake	BBC-01	EI	none	Reference	Percent Grazers	2 week post	0.0
Big Bear Lake	BBP-03	EI	Fluridone	Treated	Percent Grazers	2 week post	0.0
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Grazers	Pre-App	40.5
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Grazers	Pre-App	45.8
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Grazers	2 week post	76.3
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Grazers	2 week post	70.9
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Grazers	2 week post	82.1
Costa Ponds	CP-01	EI	none	Reference	Percent Grazers	Pre-App	5.4
Costa Ponds	CP-01	EI	none	Reference	Percent Grazers	Pre-App	2.4
Costa Ponds	CP-01	EI	none	Reference	Percent Grazers	Pre-App	0.0
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Grazers	Pre-App	26.1
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Grazers	Pre-App	25.0

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Grazers	Pre-App	30.4
Costa Ponds	CP-01	EI	none	Reference	Percent Grazers	2 week post	0.6
Costa Ponds	CP-01	EI	none	Reference	Percent Grazers	2 week post	4.6
Costa Ponds	CP-01	EI	none	Reference	Percent Grazers	2 week post	1.7
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Grazers	2 week post	7.0
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Grazers	2 week post	32.6
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Grazers	2 week post	24.3
Costa Ponds	CP-01	EI	none	Reference	Percent Grazers	6 week post	4.1
Costa Ponds	CP-01	EI	none	Reference	Percent Grazers	6 week post	2.3
Costa Ponds	CP-01	EI	none	Reference	Percent Grazers	6 week post	1.0
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Grazers	6 week post	21.6
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Grazers	6 week post	6.6
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Grazers	6 week post	2.3
Doris Drain	D-01	EI	Glyphosate	Treated	Percent Grazers	3 hours	74.3
Doris Drain	D-01	EI	Glyphosate	Treated	Percent Grazers	3 hours	64.5
Doris Drain	D-01	EI	Glyphosate	Treated	Percent Grazers	3 hours	67.1
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Grazers	Pre-App	1.3
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Grazers	Pre-App	1.0
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Grazers	Pre-App	6.0
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Grazers	24 hours	0.7
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Grazers	24 hours	2.9
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Grazers	24 hours	2.7
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Grazers	2 week post	0.6
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Grazers	2 week post	2.8
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Grazers	2 week post	6.0
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Grazers	Pre-App	91.0
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Grazers	2 week post	61.8
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Grazers	2 week post	54.5
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Grazers	2 week post	17.5
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Grazers	Pre-App	2.1
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Grazers	Pre-App	7.9
Stone Lake	SL-01	EI	none	Reference	Percent Grazers	4 week post	4.5
Stone Lake	SL-01	EI	none	Reference	Percent Grazers	4 week post	3.0
Stone Lake	SL-01	EI	none	Reference	Percent Grazers	4 week post	5.9
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Grazers	4 week post	5.0
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Grazers	4 week post	2.6
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Grazers	4 week post	1.0
Stone Lake	SL-01	EI	none	Reference	Percent Grazers	8 week post	14.3
Stone Lake	SL-01	EI	none	Reference	Percent Grazers	8 week post	13.6
Stone Lake	SL-01	EI	none	Reference	Percent Grazers	8 week post	3.6
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Grazers	8 week post	5.2
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Grazers	8 week post	11.7
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Grazers	8 week post	2.0
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	Percent Diptera	Pre-App	13.8
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	Percent Diptera	Pre-App	16.8
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	Percent Diptera	Pre-App	6.2
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Diptera	Pre-App	40.9
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Diptera	Pre-App	36.0
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Diptera	Pre-App	0.0
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Diptera	Pre-App	44.1
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Diptera	Pre-App	57.6
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Diptera	Pre-App	38.9
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Diptera	Pre-App	30.5
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Diptera	Pre-App	38.5
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Diptera	Pre-App	0.0
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Diptera	Pre-App	26.7
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Diptera	Pre-App	31.6
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Diptera	Pre-App	65.2
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Diptera	Pre-App	30.0
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Diptera	Pre-App	85.7
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Diptera	Pre-App	50.0
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Diptera	Pre-App	26.9
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Diptera	Pre-App	40.0
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Diptera	Pre-App	45.5
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Diptera	2 week post	21.0
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Diptera	2 week post	47.9
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Diptera	2 week post	48.9
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Diptera	2 week post	47.8
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Diptera	2 week post	43.9
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Diptera	2 week post	63.2
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Diptera	2 week post	70.0
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Diptera	2 week post	58.7
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Diptera	2 week post	45.7
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Diptera	2 week post	22.5
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Diptera	2 week post	23.7
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Diptera	2 week post	8.8

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Diptera	2 week post	16.0
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Diptera	2 week post	14.3
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Diptera	2 week post	37.3
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Diptera	2 week post	31.8
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Diptera	2 week post	20.3
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Diptera	2 week post	6.0
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Diptera	6 week post	11.1
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Diptera	6 week post	24.7
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Diptera	6 week post	20.0
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Diptera	6 week post	72.7
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Diptera	6 week post	54.5
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Diptera	6 week post	42.9
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Diptera	6 week post	65.8
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Diptera	6 week post	39.7
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Diptera	6 week post	61.8
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Diptera	6 week post	17.5
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Diptera	6 week post	2.5
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Diptera	6 week post	13.5
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Diptera	6 week post	38.6
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Diptera	6 week post	29.3
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Diptera	6 week post	25.8
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Diptera	6 week post	66.7
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Diptera	6 week post	53.1
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Diptera	6 week post	56.8
Big Bear Lake	BBC-01	Benthos	none	Reference	Percent Diptera	2 week post	23.9
Big Bear Lake	BBC-01	Benthos	none	Reference	Percent Diptera	2 week post	35.9
Big Bear Lake	BBC-01	Benthos	none	Reference	Percent Diptera	2 week post	7.8
Big Bear Lake	BBE-01	Benthos	Fluridone	Treated	Percent Diptera	2 week post	49.0
Big Bear Lake	BBE-01	Benthos	Fluridone	Treated	Percent Diptera	2 week post	77.3
Big Bear Lake	BBE-01	Benthos	Fluridone	Treated	Percent Diptera	2 week post	71.8
Big Bear Lake	BBE-02	Benthos	Fluridone	Treated	Percent Diptera	2 week post	2.4
Big Bear Lake	BBE-02	Benthos	Fluridone	Treated	Percent Diptera	2 week post	0.4
Big Bear Lake	BBE-02	Benthos	Fluridone	Treated	Percent Diptera	2 week post	2.0
Big Bear Lake	BBP-01	Benthos	Fluridone	Treated	Percent Diptera	2 week post	28.8
Big Bear Lake	BBP-01	Benthos	Fluridone	Treated	Percent Diptera	2 week post	44.4
Big Bear Lake	BBP-01	Benthos	Fluridone	Treated	Percent Diptera	2 week post	20.4
Big Bear Lake	BBP-02	Benthos	Fluridone	Treated	Percent Diptera	2 week post	17.9
Big Bear Lake	BBP-02	Benthos	Fluridone	Treated	Percent Diptera	2 week post	10.2
Big Bear Lake	BBP-02	Benthos	Fluridone	Treated	Percent Diptera	2 week post	18.2
Big Bear Lake	BBP-03	Benthos	Fluridone	Treated	Percent Diptera	2 week post	39.1
Big Bear Lake	BBP-03	Benthos	Fluridone	Treated	Percent Diptera	2 week post	43.4
Big Bear Lake	BBP-03	Benthos	Fluridone	Treated	Percent Diptera	2 week post	52.4
Byrnes Canal	BC-01	Benthos	Copper	Treated	Percent Diptera	Pre-App	100.0
Byrnes Canal	BC-01	Benthos	Copper	Treated	Percent Diptera	Pre-App	100.0
Byrnes Canal	BC-01	Benthos	Copper	Treated	Percent Diptera	Pre-App	95.9
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Diptera	Pre-App	47.2
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Diptera	Pre-App	26.9
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Diptera	Pre-App	61.1
Byrnes Canal	BC-01	Benthos	Copper	Treated	Percent Diptera	2 week post	86.0
Byrnes Canal	BC-01	Benthos	Copper	Treated	Percent Diptera	2 week post	81.8
Byrnes Canal	BC-01	Benthos	Copper	Treated	Percent Diptera	2 week post	84.1
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Diptera	2 week post	12.2
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Diptera	2 week post	7.6
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Diptera	2 week post	3.7
Costa Ponds	CP-01	Benthos	none	Reference	Percent Diptera	Pre-App	7.4
Costa Ponds	CP-01	Benthos	none	Reference	Percent Diptera	Pre-App	0.0
Costa Ponds	CP-01	Benthos	none	Reference	Percent Diptera	Pre-App	13.0
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Diptera	Pre-App	51.5
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Diptera	Pre-App	82.8
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Diptera	Pre-App	51.7
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Diptera	Pre-App	4.3
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Diptera	Pre-App	22.2
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Diptera	Pre-App	21.1
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Diptera	Pre-App	34.6
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Diptera	Pre-App	35.4
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Diptera	Pre-App	49.1
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Diptera	Pre-App	30.0
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Diptera	Pre-App	42.6
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Diptera	Pre-App	29.7
Costa Ponds	CP-01	Benthos	none	Reference	Percent Diptera	2 week post	6.7
Costa Ponds	CP-01	Benthos	none	Reference	Percent Diptera	2 week post	12.5
Costa Ponds	CP-01	Benthos	none	Reference	Percent Diptera	2 week post	26.1
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Diptera	2 week post	55.6
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Diptera	2 week post	43.8
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Diptera	2 week post	42.9
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Diptera	2 week post	35.3

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Diptera	2 week post	40.0
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Diptera	2 week post	68.4
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Diptera	2 week post	23.1
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Diptera	2 week post	12.5
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Diptera	2 week post	4.0
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Diptera	2 week post	21.7
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Diptera	2 week post	30.6
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Diptera	2 week post	32.4
Costa Ponds	CP-01	Benthos	none	Reference	Percent Diptera	6 week post	3.1
Costa Ponds	CP-01	Benthos	none	Reference	Percent Diptera	6 week post	5.0
Costa Ponds	CP-01	Benthos	none	Reference	Percent Diptera	6 week post	0.0
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Diptera	6 week post	89.7
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Diptera	6 week post	61.1
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Diptera	6 week post	100.0
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Diptera	6 week post	54.8
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Diptera	6 week post	75.0
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Diptera	6 week post	35.7
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Diptera	6 week post	35.7
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Diptera	6 week post	29.4
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Diptera	6 week post	32.3
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Diptera	6 week post	19.1
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Diptera	6 week post	11.1
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Diptera	6 week post	25.0
Doris Drain	D-01	Benthos	Glyphosate	Treated	Percent Diptera	3 hours	17.9
Doris Drain	D-01	Benthos	Glyphosate	Treated	Percent Diptera	3 hours	21.1
Doris Drain	D-01	Benthos	Glyphosate	Treated	Percent Diptera	3 hours	11.7
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Diptera	Pre-App	83.3
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Diptera	Pre-App	77.4
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Diptera	Pre-App	71.2
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Diptera	2 week post	40.6
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Diptera	2 week post	11.8
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Diptera	2 week post	24.7
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Diptera	6 week post	13.4
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Diptera	6 week post	26.3
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Diptera	6 week post	17.5
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Diptera	Pre-App	29.6
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Diptera	Pre-App	35.7
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Diptera	Pre-App	35.7
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Diptera	Pre-App	56.3
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Diptera	Pre-App	79.2
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Diptera	Pre-App	53.8
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Diptera	Pre-App	73.7
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Diptera	Pre-App	40.5
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Diptera	Pre-App	50.0
Nicasio Reservoir	N-11	Benthos	none	Reference	Percent Diptera	Pre-App	46.6
Nicasio Reservoir	N-11	Benthos	none	Reference	Percent Diptera	Pre-App	52.8
Nicasio Reservoir	N-11	Benthos	none	Reference	Percent Diptera	Pre-App	24.6
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Diptera	Pre-App	25.8
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Diptera	Pre-App	7.7
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Diptera	Pre-App	34.1
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Diptera	2 week post	88.2
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Diptera	2 week post	70.8
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Diptera	2 week post	76.9
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Diptera	2 week post	45.5
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Diptera	2 week post	61.5
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Diptera	2 week post	51.7
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Diptera	2 week post	33.3
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Diptera	2 week post	44.6
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Diptera	2 week post	65.1
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Diptera	2 week post	27.4
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Diptera	2 week post	25.7
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Diptera	2 week post	16.1
Nicasio Reservoir	N-14	Benthos	Copper	Treated	Percent Diptera	2 week post	32.4
Nicasio Reservoir	N-14	Benthos	Copper	Treated	Percent Diptera	2 week post	59.1
Nicasio Reservoir	N-14	Benthos	Copper	Treated	Percent Diptera	2 week post	57.6
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Diptera	Pre-App	16.6
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Diptera	Pre-App	4.5
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Diptera	Pre-App	5.0
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Diptera	2 week post	12.5
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Diptera	2 week post	2.4
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Diptera	2 week post	5.4
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Diptera	Pre-App	67.2
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Diptera	Pre-App	25.3
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Diptera	Pre-App	39.0
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Diptera	2 week post	43.5
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Diptera	2 week post	35.0

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Diptera	2 week post	25.6
Sand Bay Isle	SB-01	Benthos	Copper	Treated	Percent Diptera	1 week post	2.8
Sand Bay Isle	SB-01	Benthos	Copper	Treated	Percent Diptera	1 week post	0.6
Sand Bay Isle	SB-01	Benthos	Copper	Treated	Percent Diptera	1 week post	0.7
Sand Bay Isle	SB-02	Benthos	none	Reference	Percent Diptera	1 week post	1.0
Sand Bay Isle	SB-02	Benthos	none	Reference	Percent Diptera	1 week post	2.7
Sand Bay Isle	SB-02	Benthos	none	Reference	Percent Diptera	1 week post	4.5
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Diptera	Pre-App	0.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Diptera	Pre-App	13.5
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Diptera	Pre-App	7.1
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Diptera	Pre-App	6.9
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Diptera	Pre-App	5.9
Stone Lake	SL-01	Benthos	none	Reference	Percent Diptera	4 week post	50.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Diptera	4 week post	16.7
Stone Lake	SL-01	Benthos	none	Reference	Percent Diptera	4 week post	13.6
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Diptera	4 week post	66.7
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Diptera	4 week post	0.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Diptera	4 week post	25.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Diptera	4 week post	11.8
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Diptera	4 week post	46.2
Stone Lake	SL-01	Benthos	none	Reference	Percent Diptera	8 week post	0.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Diptera	8 week post	50.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Diptera	8 week post	7.7
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Diptera	8 week post	35.3
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Diptera	8 week post	50.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Diptera	8 week post	20.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Diptera	8 week post	51.5
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Diptera	8 week post	39.8
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Diptera	8 week post	72.2
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Percent Diptera	Pre-App	7.6
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Percent Diptera	Pre-App	11.3
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Percent Diptera	Pre-App	3.5
Big Bear Lake	BBC-01	EI	none	Reference	Percent Diptera	2 week post	8.7
Big Bear Lake	BBC-01	EI	none	Reference	Percent Diptera	2 week post	21.4
Big Bear Lake	BBC-01	EI	none	Reference	Percent Diptera	2 week post	52.0
Big Bear Lake	BBP-03	EI	Fluridone	Treated	Percent Diptera	2 week post	4.1
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Diptera	Pre-App	48.1
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Diptera	Pre-App	73.9
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Diptera	2 week post	11.4
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Diptera	2 week post	9.5
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Diptera	2 week post	10.8
Costa Ponds	CP-01	EI	none	Reference	Percent Diptera	Pre-App	33.3
Costa Ponds	CP-01	EI	none	Reference	Percent Diptera	Pre-App	6.4
Costa Ponds	CP-01	EI	none	Reference	Percent Diptera	Pre-App	13.7
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Diptera	Pre-App	40.1
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Diptera	Pre-App	56.4
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Diptera	Pre-App	47.3
Costa Ponds	CP-01	EI	none	Reference	Percent Diptera	2 week post	33.6
Costa Ponds	CP-01	EI	none	Reference	Percent Diptera	2 week post	25.8
Costa Ponds	CP-01	EI	none	Reference	Percent Diptera	2 week post	23.3
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Diptera	2 week post	68.6
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Diptera	2 week post	32.5
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Diptera	2 week post	54.3
Costa Ponds	CP-01	EI	none	Reference	Percent Diptera	6 week post	33.2
Costa Ponds	CP-01	EI	none	Reference	Percent Diptera	6 week post	55.1
Costa Ponds	CP-01	EI	none	Reference	Percent Diptera	6 week post	18.2
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Diptera	6 week post	63.9
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Diptera	6 week post	50.6
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Diptera	6 week post	68.8
Doris Drain	D-01	EI	Glyphosate	Treated	Percent Diptera	3 hours	27.9
Doris Drain	D-01	EI	Glyphosate	Treated	Percent Diptera	3 hours	31.9
Doris Drain	D-01	EI	Glyphosate	Treated	Percent Diptera	3 hours	29.7
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Diptera	Pre-App	11.6
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Diptera	Pre-App	18.4
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Diptera	Pre-App	10.3
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Diptera	24 hours	19.9
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Diptera	24 hours	12.7
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Diptera	24 hours	23.6
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Diptera	2 week post	61.1
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Diptera	2 week post	25.3
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Diptera	2 week post	28.3
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Diptera	Pre-App	2.5
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Diptera	2 week post	7.6
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Diptera	2 week post	15.3
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Diptera	2 week post	50.0

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Diptera	Pre-App	23.3
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Diptera	Pre-App	9.2
Stone Lake	SL-01	EI	none	Reference	Percent Diptera	4 week post	4.5
Stone Lake	SL-01	EI	none	Reference	Percent Diptera	4 week post	2.0
Stone Lake	SL-01	EI	none	Reference	Percent Diptera	4 week post	1.3
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Diptera	4 week post	20.5
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Diptera	4 week post	9.7
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Diptera	4 week post	5.8
Stone Lake	SL-01	EI	none	Reference	Percent Diptera	8 week post	0.0
Stone Lake	SL-01	EI	none	Reference	Percent Diptera	8 week post	3.0
Stone Lake	SL-01	EI	none	Reference	Percent Diptera	8 week post	10.0
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Diptera	8 week post	18.1
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Diptera	8 week post	23.6
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Diptera	8 week post	16.9
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	Percent Chironomidae	Pre-App	13.8
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	Percent Chironomidae	Pre-App	16.8
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	Percent Chironomidae	Pre-App	6.2
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Chironomidae	Pre-App	40.9
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Chironomidae	Pre-App	36.0
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Chironomidae	Pre-App	0.0
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Chironomidae	Pre-App	44.1
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Chironomidae	Pre-App	57.6
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Chironomidae	Pre-App	38.9
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Chironomidae	Pre-App	25.6
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Chironomidae	Pre-App	30.8
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Chironomidae	Pre-App	0.0
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Chironomidae	Pre-App	26.7
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Chironomidae	Pre-App	26.3
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Chironomidae	Pre-App	60.9
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Chironomidae	Pre-App	30.0
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Chironomidae	Pre-App	85.7
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Chironomidae	Pre-App	50.0
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Chironomidae	Pre-App	26.9
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Chironomidae	Pre-App	40.0
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Chironomidae	Pre-App	45.5
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Chironomidae	2 week post	21.0
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Chironomidae	2 week post	46.6
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Chironomidae	2 week post	47.8
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Chironomidae	2 week post	47.8
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Chironomidae	2 week post	43.9
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Chironomidae	2 week post	57.9
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Chironomidae	2 week post	70.0
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Chironomidae	2 week post	58.7
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Chironomidae	2 week post	44.3
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Chironomidae	2 week post	22.5
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Chironomidae	2 week post	23.7
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Chironomidae	2 week post	8.8
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Chironomidae	2 week post	16.0
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Chironomidae	2 week post	14.3
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Chironomidae	2 week post	37.3
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Chironomidae	2 week post	31.8
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Chironomidae	2 week post	20.3
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Chironomidae	2 week post	6.0
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Chironomidae	6 week post	11.1
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Chironomidae	6 week post	24.7
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Chironomidae	6 week post	20.0
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Chironomidae	6 week post	63.6
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Chironomidae	6 week post	40.9
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Chironomidae	6 week post	33.3
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Chironomidae	6 week post	64.4
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Chironomidae	6 week post	34.6
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Chironomidae	6 week post	49.1
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Chironomidae	6 week post	17.5
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Chironomidae	6 week post	2.5
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Chironomidae	6 week post	10.8
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Chironomidae	6 week post	38.6
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Chironomidae	6 week post	29.3
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Chironomidae	6 week post	25.8
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Chironomidae	6 week post	51.3
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Chironomidae	6 week post	50.3
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Chironomidae	6 week post	44.1
Big Bear Lake	BBC-01	Benthos	none	Reference	Percent Chironomidae	2 week post	23.9
Big Bear Lake	BBC-01	Benthos	none	Reference	Percent Chironomidae	2 week post	34.6
Big Bear Lake	BBC-01	Benthos	none	Reference	Percent Chironomidae	2 week post	7.8
Big Bear Lake	BBE-01	Benthos	Fluridone	Treated	Percent Chironomidae	2 week post	46.9
Big Bear Lake	BBE-01	Benthos	Fluridone	Treated	Percent Chironomidae	2 week post	77.3

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Big Bear Lake	BBE-01	Benthos	Fluridone	Treated	Percent Chironomidae	2 week post	71.8
Big Bear Lake	BBE-02	Benthos	Fluridone	Treated	Percent Chironomidae	2 week post	2.4
Big Bear Lake	BBE-02	Benthos	Fluridone	Treated	Percent Chironomidae	2 week post	0.4
Big Bear Lake	BBE-02	Benthos	Fluridone	Treated	Percent Chironomidae	2 week post	2.0
Big Bear Lake	BBP-01	Benthos	Fluridone	Treated	Percent Chironomidae	2 week post	28.8
Big Bear Lake	BBP-01	Benthos	Fluridone	Treated	Percent Chironomidae	2 week post	44.4
Big Bear Lake	BBP-01	Benthos	Fluridone	Treated	Percent Chironomidae	2 week post	19.4
Big Bear Lake	BBP-02	Benthos	Fluridone	Treated	Percent Chironomidae	2 week post	14.3
Big Bear Lake	BBP-02	Benthos	Fluridone	Treated	Percent Chironomidae	2 week post	10.2
Big Bear Lake	BBP-02	Benthos	Fluridone	Treated	Percent Chironomidae	2 week post	18.2
Big Bear Lake	BBP-03	Benthos	Fluridone	Treated	Percent Chironomidae	2 week post	39.1
Big Bear Lake	BBP-03	Benthos	Fluridone	Treated	Percent Chironomidae	2 week post	42.8
Big Bear Lake	BBP-03	Benthos	Fluridone	Treated	Percent Chironomidae	2 week post	52.4
Byrnes Canal	BC-01	Benthos	Copper	Treated	Percent Chironomidae	Pre-App	98.9
Byrnes Canal	BC-01	Benthos	Copper	Treated	Percent Chironomidae	Pre-App	100.0
Byrnes Canal	BC-01	Benthos	Copper	Treated	Percent Chironomidae	Pre-App	95.9
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Chironomidae	Pre-App	46.9
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Chironomidae	Pre-App	26.6
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Chironomidae	Pre-App	55.6
Byrnes Canal	BC-01	Benthos	Copper	Treated	Percent Chironomidae	2 week post	85.6
Byrnes Canal	BC-01	Benthos	Copper	Treated	Percent Chironomidae	2 week post	81.8
Byrnes Canal	BC-01	Benthos	Copper	Treated	Percent Chironomidae	2 week post	83.8
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Chironomidae	2 week post	12.2
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Chironomidae	2 week post	7.6
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Chironomidae	2 week post	3.7
Costa Ponds	CP-01	Benthos	none	Reference	Percent Chironomidae	Pre-App	3.7
Costa Ponds	CP-01	Benthos	none	Reference	Percent Chironomidae	Pre-App	0.0
Costa Ponds	CP-01	Benthos	none	Reference	Percent Chironomidae	Pre-App	0.0
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Chironomidae	Pre-App	47.1
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Chironomidae	Pre-App	82.8
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Chironomidae	Pre-App	45.0
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Chironomidae	Pre-App	4.3
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Chironomidae	Pre-App	11.1
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Chironomidae	Pre-App	21.1
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Chironomidae	Pre-App	34.6
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Chironomidae	Pre-App	35.4
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Chironomidae	Pre-App	49.1
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Chironomidae	Pre-App	20.0
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Chironomidae	Pre-App	40.4
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Chironomidae	Pre-App	29.7
Costa Ponds	CP-01	Benthos	none	Reference	Percent Chironomidae	2 week post	3.3
Costa Ponds	CP-01	Benthos	none	Reference	Percent Chironomidae	2 week post	6.3
Costa Ponds	CP-01	Benthos	none	Reference	Percent Chironomidae	2 week post	8.7
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Chironomidae	2 week post	55.6
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Chironomidae	2 week post	37.5
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Chironomidae	2 week post	28.6
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Chironomidae	2 week post	29.4
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Chironomidae	2 week post	40.0
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Chironomidae	2 week post	47.4
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Chironomidae	2 week post	23.1
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Chironomidae	2 week post	12.5
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Chironomidae	2 week post	4.0
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Chironomidae	2 week post	21.7
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Chironomidae	2 week post	26.5
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Chironomidae	2 week post	32.4
Costa Ponds	CP-01	Benthos	none	Reference	Percent Chironomidae	6 week post	0.0
Costa Ponds	CP-01	Benthos	none	Reference	Percent Chironomidae	6 week post	5.0
Costa Ponds	CP-01	Benthos	none	Reference	Percent Chironomidae	6 week post	0.0
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Chironomidae	6 week post	86.2
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Chironomidae	6 week post	50.0
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Chironomidae	6 week post	66.7
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Chironomidae	6 week post	47.6
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Chironomidae	6 week post	50.0
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Chironomidae	6 week post	25.0
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Chironomidae	6 week post	28.6
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Chironomidae	6 week post	23.5
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Chironomidae	6 week post	25.8
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Chironomidae	6 week post	17.0
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Chironomidae	6 week post	11.1
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Chironomidae	6 week post	19.4
Doris Drain	D-01	Benthos	Glyphosate	Treated	Percent Chironomidae	3 hours	17.9
Doris Drain	D-01	Benthos	Glyphosate	Treated	Percent Chironomidae	3 hours	20.7
Doris Drain	D-01	Benthos	Glyphosate	Treated	Percent Chironomidae	3 hours	11.7
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Chironomidae	Pre-App	75.0
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Chironomidae	Pre-App	74.2
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Chironomidae	Pre-App	69.2

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Chironomidae	2 week post	40.6
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Chironomidae	2 week post	11.8
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Chironomidae	2 week post	21.9
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Chironomidae	6 week post	11.9
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Chironomidae	6 week post	23.7
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Chironomidae	6 week post	16.9
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Chironomidae	Pre-App	29.6
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Chironomidae	Pre-App	35.7
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Chironomidae	Pre-App	35.7
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Chironomidae	Pre-App	56.3
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Chironomidae	Pre-App	79.2
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Chironomidae	Pre-App	51.3
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Chironomidae	Pre-App	73.7
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Chironomidae	Pre-App	40.5
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Chironomidae	Pre-App	50.0
Nicasio Reservoir	N-11	Benthos	none	Reference	Percent Chironomidae	Pre-App	46.6
Nicasio Reservoir	N-11	Benthos	none	Reference	Percent Chironomidae	Pre-App	52.8
Nicasio Reservoir	N-11	Benthos	none	Reference	Percent Chironomidae	Pre-App	24.6
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Chironomidae	Pre-App	25.8
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Chironomidae	Pre-App	7.7
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Chironomidae	Pre-App	34.1
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Chironomidae	2 week post	88.2
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Chironomidae	2 week post	66.7
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Chironomidae	2 week post	76.9
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Chironomidae	2 week post	45.5
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Chironomidae	2 week post	61.5
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Chironomidae	2 week post	51.7
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Chironomidae	2 week post	33.3
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Chironomidae	2 week post	44.6
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Chironomidae	2 week post	65.1
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Chironomidae	2 week post	27.4
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Chironomidae	2 week post	25.7
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Chironomidae	2 week post	16.1
Nicasio Reservoir	N-14	Benthos	Copper	Treated	Percent Chironomidae	2 week post	32.4
Nicasio Reservoir	N-14	Benthos	Copper	Treated	Percent Chironomidae	2 week post	59.1
Nicasio Reservoir	N-14	Benthos	Copper	Treated	Percent Chironomidae	2 week post	57.6
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Chironomidae	Pre-App	15.9
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Chironomidae	Pre-App	3.9
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Chironomidae	Pre-App	5.0
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Chironomidae	2 week post	11.4
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Chironomidae	2 week post	2.4
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Chironomidae	2 week post	5.1
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Chironomidae	Pre-App	67.2
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Chironomidae	Pre-App	25.3
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Chironomidae	Pre-App	39.0
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Chironomidae	2 week post	43.5
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Chironomidae	2 week post	35.0
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Chironomidae	2 week post	25.6
Sand Bay Isle	SB-01	Benthos	Copper	Treated	Percent Chironomidae	1 week post	2.8
Sand Bay Isle	SB-01	Benthos	Copper	Treated	Percent Chironomidae	1 week post	0.6
Sand Bay Isle	SB-01	Benthos	Copper	Treated	Percent Chironomidae	1 week post	0.7
Sand Bay Isle	SB-02	Benthos	none	Reference	Percent Chironomidae	1 week post	1.0
Sand Bay Isle	SB-02	Benthos	none	Reference	Percent Chironomidae	1 week post	2.7
Sand Bay Isle	SB-02	Benthos	none	Reference	Percent Chironomidae	1 week post	4.5
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Chironomidae	Pre-App	0.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Chironomidae	Pre-App	12.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Chironomidae	Pre-App	4.8
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Chironomidae	Pre-App	6.4
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Chironomidae	Pre-App	5.1
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Chironomidae	Pre-App	4.9
Stone Lake	SL-01	Benthos	none	Reference	Percent Chironomidae	4 week post	50.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Chironomidae	4 week post	16.7
Stone Lake	SL-01	Benthos	none	Reference	Percent Chironomidae	4 week post	13.6
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Chironomidae	4 week post	66.7
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Chironomidae	4 week post	0.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Chironomidae	4 week post	25.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Chironomidae	4 week post	10.8
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Chironomidae	4 week post	46.2
Stone Lake	SL-01	Benthos	none	Reference	Percent Chironomidae	8 week post	0.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Chironomidae	8 week post	25.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Chironomidae	8 week post	7.7
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Chironomidae	8 week post	17.6
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Chironomidae	8 week post	25.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Chironomidae	8 week post	20.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Chironomidae	8 week post	51.5
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Chironomidae	8 week post	36.1

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Chironomidae	8 week post	66.7
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Percent Chironomidae	Pre-App	7.6
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Percent Chironomidae	Pre-App	11.3
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Percent Chironomidae	Pre-App	3.5
Big Bear Lake	BBC-01	EI	none	Reference	Percent Chironomidae	2 week post	6.8
Big Bear Lake	BBC-01	EI	none	Reference	Percent Chironomidae	2 week post	21.4
Big Bear Lake	BBC-01	EI	none	Reference	Percent Chironomidae	2 week post	52.0
Big Bear Lake	BBP-03	EI	Fluridone	Treated	Percent Chironomidae	2 week post	3.8
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Chironomidae	Pre-App	47.4
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Chironomidae	Pre-App	72.7
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Chironomidae	2 week post	11.4
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Chironomidae	2 week post	9.5
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Chironomidae	2 week post	10.8
Costa Ponds	CP-01	EI	none	Reference	Percent Chironomidae	Pre-App	8.0
Costa Ponds	CP-01	EI	none	Reference	Percent Chironomidae	Pre-App	0.7
Costa Ponds	CP-01	EI	none	Reference	Percent Chironomidae	Pre-App	3.6
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Chironomidae	Pre-App	15.8
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Chironomidae	Pre-App	9.1
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Chironomidae	Pre-App	9.4
Costa Ponds	CP-01	EI	none	Reference	Percent Chironomidae	2 week post	7.2
Costa Ponds	CP-01	EI	none	Reference	Percent Chironomidae	2 week post	6.0
Costa Ponds	CP-01	EI	none	Reference	Percent Chironomidae	2 week post	1.3
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Chironomidae	2 week post	44.1
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Chironomidae	2 week post	14.2
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Chironomidae	2 week post	15.9
Costa Ponds	CP-01	EI	none	Reference	Percent Chironomidae	6 week post	2.7
Costa Ponds	CP-01	EI	none	Reference	Percent Chironomidae	6 week post	0.0
Costa Ponds	CP-01	EI	none	Reference	Percent Chironomidae	6 week post	8.6
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Chironomidae	6 week post	16.5
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Chironomidae	6 week post	13.9
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Chironomidae	6 week post	13.1
Doris Drain	D-01	EI	Glyphosate	Treated	Percent Chironomidae	3 hours	19.9
Doris Drain	D-01	EI	Glyphosate	Treated	Percent Chironomidae	3 hours	28.0
Doris Drain	D-01	EI	Glyphosate	Treated	Percent Chironomidae	3 hours	26.5
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Chironomidae	Pre-App	8.1
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Chironomidae	Pre-App	15.5
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Chironomidae	Pre-App	8.8
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Chironomidae	24 hours	15.5
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Chironomidae	24 hours	7.1
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Chironomidae	24 hours	17.4
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Chironomidae	2 week post	33.1
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Chironomidae	2 week post	7.7
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Chironomidae	2 week post	18.0
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Chironomidae	Pre-App	2.5
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Chironomidae	2 week post	7.6
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Chironomidae	2 week post	15.3
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Chironomidae	2 week post	50.0
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Chironomidae	Pre-App	14.6
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Chironomidae	Pre-App	5.0
Stone Lake	SL-01	EI	none	Reference	Percent Chironomidae	4 week post	2.9
Stone Lake	SL-01	EI	none	Reference	Percent Chironomidae	4 week post	0.3
Stone Lake	SL-01	EI	none	Reference	Percent Chironomidae	4 week post	0.3
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Chironomidae	4 week post	6.8
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Chironomidae	4 week post	2.3
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Chironomidae	4 week post	1.9
Stone Lake	SL-01	EI	none	Reference	Percent Chironomidae	8 week post	0.0
Stone Lake	SL-01	EI	none	Reference	Percent Chironomidae	8 week post	3.0
Stone Lake	SL-01	EI	none	Reference	Percent Chironomidae	8 week post	10.0
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Chironomidae	8 week post	13.2
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Chironomidae	8 week post	17.8
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Chironomidae	8 week post	11.4
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	Percent Oligochaeta	Pre-App	71.4
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	Percent Oligochaeta	Pre-App	58.0
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	Percent Oligochaeta	Pre-App	38.3
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Oligochaeta	Pre-App	59.1
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Oligochaeta	Pre-App	64.0
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Oligochaeta	Pre-App	100.0
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Oligochaeta	Pre-App	52.9
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Oligochaeta	Pre-App	24.2
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Oligochaeta	Pre-App	61.1
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Oligochaeta	Pre-App	63.4
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Oligochaeta	Pre-App	61.5
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Oligochaeta	Pre-App	75.9
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Oligochaeta	Pre-App	73.3
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Oligochaeta	Pre-App	68.4
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Oligochaeta	Pre-App	37.0

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Oligochaeta	Pre-App	70.0
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Oligochaeta	Pre-App	14.3
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Oligochaeta	Pre-App	50.0
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Oligochaeta	Pre-App	61.5
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Oligochaeta	Pre-App	48.0
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Oligochaeta	Pre-App	47.3
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	48.4
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	40.6
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	30.1
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	10.9
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	39.0
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	10.5
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	30.0
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	36.5
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	47.1
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	77.5
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	57.9
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	73.6
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	84.0
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	72.3
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	32.2
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	68.2
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	63.3
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	82.0
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Oligochaeta	6 week post	66.7
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Oligochaeta	6 week post	79.5
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Oligochaeta	6 week post	55.0
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Oligochaeta	6 week post	18.2
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Oligochaeta	6 week post	45.5
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Oligochaeta	6 week post	52.4
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Oligochaeta	6 week post	31.5
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Oligochaeta	6 week post	57.7
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Oligochaeta	6 week post	34.5
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Oligochaeta	6 week post	84.1
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Oligochaeta	6 week post	90.1
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Oligochaeta	6 week post	81.1
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Oligochaeta	6 week post	54.4
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Oligochaeta	6 week post	66.3
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Oligochaeta	6 week post	50.5
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Oligochaeta	6 week post	23.1
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Oligochaeta	6 week post	45.5
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Oligochaeta	6 week post	27.9
Big Bear Lake	BBC-01	Benthos	none	Reference	Percent Oligochaeta	2 week post	75.5
Big Bear Lake	BBC-01	Benthos	none	Reference	Percent Oligochaeta	2 week post	55.1
Big Bear Lake	BBC-01	Benthos	none	Reference	Percent Oligochaeta	2 week post	91.9
Big Bear Lake	BBE-01	Benthos	Fluridone	Treated	Percent Oligochaeta	2 week post	51.0
Big Bear Lake	BBE-01	Benthos	Fluridone	Treated	Percent Oligochaeta	2 week post	13.6
Big Bear Lake	BBE-01	Benthos	Fluridone	Treated	Percent Oligochaeta	2 week post	30.8
Big Bear Lake	BBE-02	Benthos	Fluridone	Treated	Percent Oligochaeta	2 week post	64.3
Big Bear Lake	BBE-02	Benthos	Fluridone	Treated	Percent Oligochaeta	2 week post	110.5
Big Bear Lake	BBE-02	Benthos	Fluridone	Treated	Percent Oligochaeta	2 week post	98.0
Big Bear Lake	BBP-01	Benthos	Fluridone	Treated	Percent Oligochaeta	2 week post	75.0
Big Bear Lake	BBP-01	Benthos	Fluridone	Treated	Percent Oligochaeta	2 week post	48.9
Big Bear Lake	BBP-01	Benthos	Fluridone	Treated	Percent Oligochaeta	2 week post	87.4
Big Bear Lake	BBP-02	Benthos	Fluridone	Treated	Percent Oligochaeta	2 week post	89.3
Big Bear Lake	BBP-02	Benthos	Fluridone	Treated	Percent Oligochaeta	2 week post	89.8
Big Bear Lake	BBP-02	Benthos	Fluridone	Treated	Percent Oligochaeta	2 week post	81.8
Big Bear Lake	BBP-03	Benthos	Fluridone	Treated	Percent Oligochaeta	2 week post	57.8
Big Bear Lake	BBP-03	Benthos	Fluridone	Treated	Percent Oligochaeta	2 week post	56.2
Big Bear Lake	BBP-03	Benthos	Fluridone	Treated	Percent Oligochaeta	2 week post	47.6
Byrnes Canal	BC-01	Benthos	Copper	Treated	Percent Oligochaeta	Pre-App	0.0
Byrnes Canal	BC-01	Benthos	Copper	Treated	Percent Oligochaeta	Pre-App	0.0
Byrnes Canal	BC-01	Benthos	Copper	Treated	Percent Oligochaeta	Pre-App	0.0
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Oligochaeta	Pre-App	47.5
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Oligochaeta	Pre-App	52.3
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Oligochaeta	Pre-App	16.7
Byrnes Canal	BC-01	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	3.7
Byrnes Canal	BC-01	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	7.5
Byrnes Canal	BC-01	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	5.5
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	5.1
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	12.6
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	2.4
Costa Ponds	CP-01	Benthos	none	Reference	Percent Oligochaeta	Pre-App	107.4
Costa Ponds	CP-01	Benthos	none	Reference	Percent Oligochaeta	Pre-App	100.0
Costa Ponds	CP-01	Benthos	none	Reference	Percent Oligochaeta	Pre-App	95.7
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Oligochaeta	Pre-App	66.2

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Oligochaeta	Pre-App	34.5
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Oligochaeta	Pre-App	65.0
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Oligochaeta	Pre-App	87.0
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Oligochaeta	Pre-App	77.8
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Oligochaeta	Pre-App	136.8
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Oligochaeta	Pre-App	82.7
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Oligochaeta	Pre-App	70.8
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Oligochaeta	Pre-App	50.9
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Oligochaeta	Pre-App	70.0
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Oligochaeta	Pre-App	85.1
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Oligochaeta	Pre-App	102.7
Costa Ponds	CP-01	Benthos	none	Reference	Percent Oligochaeta	2 week post	93.3
Costa Ponds	CP-01	Benthos	none	Reference	Percent Oligochaeta	2 week post	87.5
Costa Ponds	CP-01	Benthos	none	Reference	Percent Oligochaeta	2 week post	73.9
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Oligochaeta	2 week post	44.4
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Oligochaeta	2 week post	84.4
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Oligochaeta	2 week post	57.1
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Oligochaeta	2 week post	58.8
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Oligochaeta	2 week post	40.0
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Oligochaeta	2 week post	31.6
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Oligochaeta	2 week post	76.9
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Oligochaeta	2 week post	87.5
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Oligochaeta	2 week post	96.0
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Oligochaeta	2 week post	73.9
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Oligochaeta	2 week post	65.3
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Oligochaeta	2 week post	67.6
Costa Ponds	CP-01	Benthos	none	Reference	Percent Oligochaeta	6 week post	96.9
Costa Ponds	CP-01	Benthos	none	Reference	Percent Oligochaeta	6 week post	95.0
Costa Ponds	CP-01	Benthos	none	Reference	Percent Oligochaeta	6 week post	100.0
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Oligochaeta	6 week post	10.3
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Oligochaeta	6 week post	27.8
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Oligochaeta	6 week post	0.0
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Oligochaeta	6 week post	40.5
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Oligochaeta	6 week post	0.0
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Oligochaeta	6 week post	60.7
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Oligochaeta	6 week post	64.3
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Oligochaeta	6 week post	70.6
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Oligochaeta	6 week post	67.7
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Oligochaeta	6 week post	80.9
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Oligochaeta	6 week post	88.9
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Oligochaeta	6 week post	75.0
Doris Drain	D-01	Benthos	Glyphosate	Treated	Percent Oligochaeta	3 hours	109.6
Doris Drain	D-01	Benthos	Glyphosate	Treated	Percent Oligochaeta	3 hours	89.1
Doris Drain	D-01	Benthos	Glyphosate	Treated	Percent Oligochaeta	3 hours	114.3
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Oligochaeta	Pre-App	8.3
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Oligochaeta	Pre-App	11.3
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Oligochaeta	Pre-App	23.1
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Oligochaeta	2 week post	61.4
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Oligochaeta	2 week post	33.8
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Oligochaeta	2 week post	79.5
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Oligochaeta	6 week post	66.4
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Oligochaeta	6 week post	13.2
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Oligochaeta	6 week post	46.9
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Oligochaeta	Pre-App	48.1
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Oligochaeta	Pre-App	59.5
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Oligochaeta	Pre-App	50.0
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Oligochaeta	Pre-App	21.9
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Oligochaeta	Pre-App	4.2
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Oligochaeta	Pre-App	15.4
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Oligochaeta	Pre-App	5.3
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Oligochaeta	Pre-App	2.4
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Oligochaeta	Pre-App	5.6
Nicasio Reservoir	N-11	Benthos	none	Reference	Percent Oligochaeta	Pre-App	39.7
Nicasio Reservoir	N-11	Benthos	none	Reference	Percent Oligochaeta	Pre-App	28.3
Nicasio Reservoir	N-11	Benthos	none	Reference	Percent Oligochaeta	Pre-App	49.3
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Oligochaeta	Pre-App	59.1
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Oligochaeta	Pre-App	74.4
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Oligochaeta	Pre-App	45.9
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	5.9
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	20.8
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	15.4
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	31.8
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	19.2
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	31.0
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	16.7
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	50.0

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	18.6
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Oligochaeta	2 week post	71.2
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Oligochaeta	2 week post	74.3
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Oligochaeta	2 week post	69.4
Nicasio Reservoir	N-14	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	64.9
Nicasio Reservoir	N-14	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	36.4
Nicasio Reservoir	N-14	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	33.3
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Oligochaeta	Pre-App	74.2
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Oligochaeta	Pre-App	76.8
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Oligochaeta	Pre-App	74.3
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	79.0
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	88.8
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Oligochaeta	2 week post	86.6
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Oligochaeta	Pre-App	4.7
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Oligochaeta	Pre-App	7.8
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Oligochaeta	Pre-App	8.1
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Oligochaeta	2 week post	35.2
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Oligochaeta	2 week post	35.0
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Oligochaeta	2 week post	24.8
Sand Bay Isle	SB-01	Benthos	Copper	Treated	Percent Oligochaeta	1 week post	28.8
Sand Bay Isle	SB-01	Benthos	Copper	Treated	Percent Oligochaeta	1 week post	0.3
Sand Bay Isle	SB-01	Benthos	Copper	Treated	Percent Oligochaeta	1 week post	3.6
Sand Bay Isle	SB-02	Benthos	none	Reference	Percent Oligochaeta	1 week post	13.6
Sand Bay Isle	SB-02	Benthos	none	Reference	Percent Oligochaeta	1 week post	9.0
Sand Bay Isle	SB-02	Benthos	none	Reference	Percent Oligochaeta	1 week post	13.6
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Oligochaeta	Pre-App	100.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Oligochaeta	Pre-App	104.2
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Oligochaeta	Pre-App	57.1
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Oligochaeta	Pre-App	99.5
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Oligochaeta	Pre-App	100.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Oligochaeta	Pre-App	93.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Oligochaeta	4 week post	50.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Oligochaeta	4 week post	50.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Oligochaeta	4 week post	4.5
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Oligochaeta	4 week post	0.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Oligochaeta	4 week post	54.5
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Oligochaeta	4 week post	75.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Oligochaeta	4 week post	90.3
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Oligochaeta	4 week post	30.8
Stone Lake	SL-01	Benthos	none	Reference	Percent Oligochaeta	8 week post	50.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Oligochaeta	8 week post	0.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Oligochaeta	8 week post	100.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Oligochaeta	8 week post	41.2
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Oligochaeta	8 week post	0.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Oligochaeta	8 week post	20.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Oligochaeta	8 week post	21.2
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Oligochaeta	8 week post	28.3
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Oligochaeta	8 week post	0.0
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Percent Oligochaeta	Pre-App	43.7
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Percent Oligochaeta	Pre-App	115.5
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Percent Oligochaeta	Pre-App	59.4
Big Bear Lake	BBC-01	EI	none	Reference	Percent Oligochaeta	2 week post	99.0
Big Bear Lake	BBC-01	EI	none	Reference	Percent Oligochaeta	2 week post	28.6
Big Bear Lake	BBC-01	EI	none	Reference	Percent Oligochaeta	2 week post	74.7
Big Bear Lake	BBP-03	EI	Fluridone	Treated	Percent Oligochaeta	2 week post	84.6
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Oligochaeta	Pre-App	0.6
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Oligochaeta	Pre-App	0.0
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Oligochaeta	2 week post	0.7
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Oligochaeta	2 week post	3.5
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Oligochaeta	2 week post	0.6
Costa Ponds	CP-01	EI	none	Reference	Percent Oligochaeta	Pre-App	7.0
Costa Ponds	CP-01	EI	none	Reference	Percent Oligochaeta	Pre-App	50.7
Costa Ponds	CP-01	EI	none	Reference	Percent Oligochaeta	Pre-App	4.8
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Oligochaeta	Pre-App	80.1
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Oligochaeta	Pre-App	30.3
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Oligochaeta	Pre-App	34.3
Costa Ponds	CP-01	EI	none	Reference	Percent Oligochaeta	2 week post	45.9
Costa Ponds	CP-01	EI	none	Reference	Percent Oligochaeta	2 week post	45.6
Costa Ponds	CP-01	EI	none	Reference	Percent Oligochaeta	2 week post	67.3
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Oligochaeta	2 week post	29.5
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Oligochaeta	2 week post	84.4
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Oligochaeta	2 week post	30.5
Costa Ponds	CP-01	EI	none	Reference	Percent Oligochaeta	6 week post	42.3
Costa Ponds	CP-01	EI	none	Reference	Percent Oligochaeta	6 week post	25.0
Costa Ponds	CP-01	EI	none	Reference	Percent Oligochaeta	6 week post	46.3
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Oligochaeta	6 week post	2.1

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Oligochaeta	6 week post	79.7
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Oligochaeta	6 week post	39.4
Doris Drain	D-01	EI	Glyphosate	Treated	Percent Oligochaeta	3 hours	30.6
Doris Drain	D-01	EI	Glyphosate	Treated	Percent Oligochaeta	3 hours	28.3
Doris Drain	D-01	EI	Glyphosate	Treated	Percent Oligochaeta	3 hours	21.2
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Oligochaeta	Pre-App	137.5
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Oligochaeta	Pre-App	125.0
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Oligochaeta	Pre-App	82.4
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Oligochaeta	24 hours	91.9
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Oligochaeta	24 hours	110.9
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Oligochaeta	24 hours	85.4
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Oligochaeta	2 week post	41.1
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Oligochaeta	2 week post	110.2
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Oligochaeta	2 week post	94.7
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Oligochaeta	Pre-App	0.3
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Oligochaeta	2 week post	16.4
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Oligochaeta	2 week post	25.9
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Oligochaeta	2 week post	8.4
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Oligochaeta	Pre-App	12.0
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Oligochaeta	Pre-App	11.6
Stone Lake	SL-01	EI	none	Reference	Percent Oligochaeta	4 week post	2.3
Stone Lake	SL-01	EI	none	Reference	Percent Oligochaeta	4 week post	0.0
Stone Lake	SL-01	EI	none	Reference	Percent Oligochaeta	4 week post	0.3
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Oligochaeta	4 week post	18.8
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Oligochaeta	4 week post	57.1
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Oligochaeta	4 week post	8.0
Stone Lake	SL-01	EI	none	Reference	Percent Oligochaeta	8 week post	28.6
Stone Lake	SL-01	EI	none	Reference	Percent Oligochaeta	8 week post	20.4
Stone Lake	SL-01	EI	none	Reference	Percent Oligochaeta	8 week post	53.3
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Oligochaeta	8 week post	49.1
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Oligochaeta	8 week post	44.3
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Oligochaeta	8 week post	78.5
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	Percent EPT Taxa	Pre-App	0.0
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	Percent EPT Taxa	Pre-App	0.0
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	Percent EPT Taxa	Pre-App	0.0
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent EPT Taxa	Pre-App	0.0
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent EPT Taxa	Pre-App	0.0
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent EPT Taxa	Pre-App	0.0
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent EPT Taxa	Pre-App	0.0
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent EPT Taxa	Pre-App	0.0
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent EPT Taxa	Pre-App	0.0
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent EPT Taxa	Pre-App	0.0
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent EPT Taxa	Pre-App	0.0
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent EPT Taxa	Pre-App	0.0
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent EPT Taxa	Pre-App	0.0
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent EPT Taxa	Pre-App	0.0
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent EPT Taxa	Pre-App	0.0
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent EPT Taxa	Pre-App	0.0
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent EPT Taxa	Pre-App	0.0
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent EPT Taxa	Pre-App	0.0
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent EPT Taxa	Pre-App	0.0
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent EPT Taxa	Pre-App	0.0
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent EPT Taxa	Pre-App	0.0
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent EPT Taxa	2 week post	0.0
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent EPT Taxa	2 week post	0.0
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent EPT Taxa	2 week post	0.0
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent EPT Taxa	2 week post	0.0
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent EPT Taxa	2 week post	0.0
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent EPT Taxa	2 week post	0.0
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent EPT Taxa	2 week post	0.0
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent EPT Taxa	2 week post	0.0
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent EPT Taxa	2 week post	0.0
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent EPT Taxa	2 week post	0.0
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent EPT Taxa	2 week post	0.0
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent EPT Taxa	2 week post	0.0
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent EPT Taxa	2 week post	0.0
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent EPT Taxa	2 week post	0.0
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent EPT Taxa	2 week post	0.0
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent EPT Taxa	2 week post	0.0
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent EPT Taxa	2 week post	0.0
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent EPT Taxa	2 week post	0.0
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent EPT Taxa	6 week post	0.0
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent EPT Taxa	6 week post	0.0
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent EPT Taxa	6 week post	0.0
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent EPT Taxa	6 week post	0.0
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent EPT Taxa	6 week post	0.0

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent EPT Taxa	Pre-App	3.7
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent EPT Taxa	Pre-App	1.4
Stone Lake	SL-01	Benthos	none	Reference	Percent EPT Taxa	4 week post	0.0
Stone Lake	SL-01	Benthos	none	Reference	Percent EPT Taxa	4 week post	0.0
Stone Lake	SL-01	Benthos	none	Reference	Percent EPT Taxa	4 week post	0.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent EPT Taxa	4 week post	0.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent EPT Taxa	4 week post	0.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent EPT Taxa	4 week post	0.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent EPT Taxa	4 week post	0.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent EPT Taxa	4 week post	0.0
Stone Lake	SL-01	Benthos	none	Reference	Percent EPT Taxa	8 week post	0.0
Stone Lake	SL-01	Benthos	none	Reference	Percent EPT Taxa	8 week post	0.0
Stone Lake	SL-01	Benthos	none	Reference	Percent EPT Taxa	8 week post	0.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent EPT Taxa	8 week post	0.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent EPT Taxa	8 week post	0.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent EPT Taxa	8 week post	0.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent EPT Taxa	8 week post	0.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent EPT Taxa	8 week post	0.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent EPT Taxa	8 week post	0.0
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Percent EPT Taxa	Pre-App	0.0
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Percent EPT Taxa	Pre-App	0.0
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Percent EPT Taxa	Pre-App	0.0
Big Bear Lake	BBC-01	EI	none	Reference	Percent EPT Taxa	2 week post	0.0
Big Bear Lake	BBC-01	EI	none	Reference	Percent EPT Taxa	2 week post	5.9
Big Bear Lake	BBC-01	EI	none	Reference	Percent EPT Taxa	2 week post	5.9
Big Bear Lake	BBP-03	EI	Fluridone	Treated	Percent EPT Taxa	2 week post	50.0
Byrnes Canal	BC-02	EI	Copper	Treated	Percent EPT Taxa	Pre-App	50.0
Byrnes Canal	BC-02	EI	Copper	Treated	Percent EPT Taxa	Pre-App	10.0
Byrnes Canal	BC-02	EI	Copper	Treated	Percent EPT Taxa	2 week post	10.0
Byrnes Canal	BC-02	EI	Copper	Treated	Percent EPT Taxa	2 week post	0.0
Byrnes Canal	BC-02	EI	Copper	Treated	Percent EPT Taxa	2 week post	0.0
Costa Ponds	CP-01	EI	none	Reference	Percent EPT Taxa	Pre-App	4.2
Costa Ponds	CP-01	EI	none	Reference	Percent EPT Taxa	Pre-App	4.2
Costa Ponds	CP-01	EI	none	Reference	Percent EPT Taxa	Pre-App	5.6
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent EPT Taxa	Pre-App	5.6
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent EPT Taxa	Pre-App	0.0
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent EPT Taxa	Pre-App	0.0
Costa Ponds	CP-01	EI	none	Reference	Percent EPT Taxa	2 week post	0.8
Costa Ponds	CP-01	EI	none	Reference	Percent EPT Taxa	2 week post	0.8
Costa Ponds	CP-01	EI	none	Reference	Percent EPT Taxa	2 week post	0.3
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent EPT Taxa	2 week post	0.3
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent EPT Taxa	2 week post	0.0
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent EPT Taxa	2 week post	0.0
Costa Ponds	CP-01	EI	none	Reference	Percent EPT Taxa	6 week post	0.0
Costa Ponds	CP-01	EI	none	Reference	Percent EPT Taxa	6 week post	1.8
Costa Ponds	CP-01	EI	none	Reference	Percent EPT Taxa	6 week post	1.8
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent EPT Taxa	6 week post	0.0
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent EPT Taxa	6 week post	0.3
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent EPT Taxa	6 week post	0.3
Doris Drain	D-01	EI	Glyphosate	Treated	Percent EPT Taxa	3 hours	0.0
Doris Drain	D-01	EI	Glyphosate	Treated	Percent EPT Taxa	3 hours	0.0
Doris Drain	D-01	EI	Glyphosate	Treated	Percent EPT Taxa	3 hours	0.0
Bear Creek	H-01	EI	Triclopyr	Treated	Percent EPT Taxa	Pre-App	0.0
Bear Creek	H-01	EI	Triclopyr	Treated	Percent EPT Taxa	Pre-App	0.0
Bear Creek	H-01	EI	Triclopyr	Treated	Percent EPT Taxa	Pre-App	0.2
Bear Creek	H-01	EI	Triclopyr	Treated	Percent EPT Taxa	24 hours	0.2
Bear Creek	H-01	EI	Triclopyr	Treated	Percent EPT Taxa	24 hours	0.4
Bear Creek	H-01	EI	Triclopyr	Treated	Percent EPT Taxa	24 hours	0.4
Bear Creek	H-01	EI	Triclopyr	Treated	Percent EPT Taxa	2 week post	0.0
Bear Creek	H-01	EI	Triclopyr	Treated	Percent EPT Taxa	2 week post	0.7
Bear Creek	H-01	EI	Triclopyr	Treated	Percent EPT Taxa	2 week post	0.7
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent EPT Taxa	Pre-App	0.7
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent EPT Taxa	2 week post	0.7
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent EPT Taxa	2 week post	0.0
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent EPT Taxa	2 week post	0.0
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent EPT Taxa	Pre-App	0.7
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent EPT Taxa	Pre-App	1.0
Stone Lake	SL-01	EI	none	Reference	Percent EPT Taxa	4 week post	1.0
Stone Lake	SL-01	EI	none	Reference	Percent EPT Taxa	4 week post	1.0
Stone Lake	SL-01	EI	none	Reference	Percent EPT Taxa	4 week post	1.1
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent EPT Taxa	4 week post	0.7
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent EPT Taxa	4 week post	0.3
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent EPT Taxa	4 week post	0.3
Stone Lake	SL-01	EI	none	Reference	Percent EPT Taxa	8 week post	0.0
Stone Lake	SL-01	EI	none	Reference	Percent EPT Taxa	8 week post	1.3
Stone Lake	SL-01	EI	none	Reference	Percent EPT Taxa	8 week post	1.6

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Shredders	2 week post	0.0
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Shredders	2 week post	0.0
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Shredders	Pre-App	0.0
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Shredders	Pre-App	0.0
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Shredders	Pre-App	0.0
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Shredders	2 week post	0.0
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Shredders	2 week post	0.0
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Shredders	2 week post	0.0
Sand Bay Isle	SB-01	Benthos	Copper	Treated	Percent Shredders	1 week post	0.0
Sand Bay Isle	SB-01	Benthos	Copper	Treated	Percent Shredders	1 week post	0.0
Sand Bay Isle	SB-01	Benthos	Copper	Treated	Percent Shredders	1 week post	0.0
Sand Bay Isle	SB-02	Benthos	none	Reference	Percent Shredders	1 week post	0.0
Sand Bay Isle	SB-02	Benthos	none	Reference	Percent Shredders	1 week post	0.0
Sand Bay Isle	SB-02	Benthos	none	Reference	Percent Shredders	1 week post	0.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Shredders	Pre-App	0.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Shredders	Pre-App	0.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Shredders	Pre-App	0.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Shredders	Pre-App	0.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Shredders	Pre-App	0.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Shredders	Pre-App	0.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Shredders	4 week post	0.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Shredders	4 week post	0.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Shredders	4 week post	0.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Shredders	4 week post	0.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Shredders	4 week post	0.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Shredders	4 week post	0.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Shredders	4 week post	0.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Shredders	4 week post	0.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Shredders	8 week post	0.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Shredders	8 week post	0.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Shredders	8 week post	0.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Shredders	8 week post	0.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Shredders	8 week post	0.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Shredders	8 week post	0.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Shredders	8 week post	0.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Shredders	8 week post	0.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Shredders	8 week post	0.0
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Percent Shredders	Pre-App	0.0
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Percent Shredders	Pre-App	0.0
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Percent Shredders	Pre-App	0.0
Big Bear Lake	BBC-01	EI	none	Reference	Percent Shredders	2 week post	0.0
Big Bear Lake	BBC-01	EI	none	Reference	Percent Shredders	2 week post	0.0
Big Bear Lake	BBC-01	EI	none	Reference	Percent Shredders	2 week post	0.0
Big Bear Lake	BBP-03	EI	Fluridone	Treated	Percent Shredders	2 week post	0.0
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Shredders	Pre-App	0.0
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Shredders	Pre-App	2.1
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Shredders	2 week post	0.0
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Shredders	2 week post	0.0
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Shredders	2 week post	0.0
Costa Ponds	CP-01	EI	none	Reference	Percent Shredders	Pre-App	0.3
Costa Ponds	CP-01	EI	none	Reference	Percent Shredders	Pre-App	0.0
Costa Ponds	CP-01	EI	none	Reference	Percent Shredders	Pre-App	0.0
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Shredders	Pre-App	0.0
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Shredders	Pre-App	0.4
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Shredders	Pre-App	0.4
Costa Ponds	CP-01	EI	none	Reference	Percent Shredders	2 week post	0.0
Costa Ponds	CP-01	EI	none	Reference	Percent Shredders	2 week post	0.0
Costa Ponds	CP-01	EI	none	Reference	Percent Shredders	2 week post	0.0
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Shredders	2 week post	0.0
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Shredders	2 week post	0.0
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Shredders	2 week post	0.0
Costa Ponds	CP-01	EI	none	Reference	Percent Shredders	6 week post	0.0
Costa Ponds	CP-01	EI	none	Reference	Percent Shredders	6 week post	0.0
Costa Ponds	CP-01	EI	none	Reference	Percent Shredders	6 week post	0.0
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Shredders	6 week post	0.0
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Shredders	6 week post	0.0
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Shredders	6 week post	0.0
Doris Drain	D-01	EI	Glyphosate	Treated	Percent Shredders	3 hours	0.0
Doris Drain	D-01	EI	Glyphosate	Treated	Percent Shredders	3 hours	0.0
Doris Drain	D-01	EI	Glyphosate	Treated	Percent Shredders	3 hours	0.0
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Shredders	Pre-App	0.0
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Shredders	Pre-App	0.0
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Shredders	Pre-App	0.0
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Shredders	24 hours	0.0
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Shredders	24 hours	0.0
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Shredders	24 hours	0.0

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Stone Lake	SL-01	Benthos	none	Reference	Percent Odonata	8 week post	0.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Odonata	8 week post	0.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Odonata	8 week post	0.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Odonata	8 week post	0.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Odonata	8 week post	0.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Odonata	8 week post	0.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Odonata	8 week post	4.7
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Odonata	8 week post	0.0
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Percent Odonata	Pre-App	0.0
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Percent Odonata	Pre-App	1.4
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Percent Odonata	Pre-App	0.9
Big Bear Lake	BBC-01	EI	none	Reference	Percent Odonata	2 week post	0.0
Big Bear Lake	BBC-01	EI	none	Reference	Percent Odonata	2 week post	3.6
Big Bear Lake	BBC-01	EI	none	Reference	Percent Odonata	2 week post	6.7
Big Bear Lake	BBP-03	EI	Fluridone	Treated	Percent Odonata	2 week post	0.6
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Odonata	Pre-App	0.0
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Odonata	Pre-App	0.6
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Odonata	2 week post	0.0
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Odonata	2 week post	0.0
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Odonata	2 week post	0.0
Costa Ponds	CP-01	EI	none	Reference	Percent Odonata	Pre-App	2.3
Costa Ponds	CP-01	EI	none	Reference	Percent Odonata	Pre-App	0.3
Costa Ponds	CP-01	EI	none	Reference	Percent Odonata	Pre-App	0.3
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Odonata	Pre-App	2.7
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Odonata	Pre-App	4.5
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Odonata	Pre-App	7.6
Costa Ponds	CP-01	EI	none	Reference	Percent Odonata	2 week post	0.0
Costa Ponds	CP-01	EI	none	Reference	Percent Odonata	2 week post	0.9
Costa Ponds	CP-01	EI	none	Reference	Percent Odonata	2 week post	0.6
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Odonata	2 week post	0.6
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Odonata	2 week post	1.3
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Odonata	2 week post	6.6
Costa Ponds	CP-01	EI	none	Reference	Percent Odonata	6 week post	1.0
Costa Ponds	CP-01	EI	none	Reference	Percent Odonata	6 week post	0.0
Costa Ponds	CP-01	EI	none	Reference	Percent Odonata	6 week post	1.0
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Odonata	6 week post	5.2
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Odonata	6 week post	1.3
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Odonata	6 week post	1.9
Doris Drain	D-01	EI	Glyphosate	Treated	Percent Odonata	3 hours	0.0
Doris Drain	D-01	EI	Glyphosate	Treated	Percent Odonata	3 hours	0.0
Doris Drain	D-01	EI	Glyphosate	Treated	Percent Odonata	3 hours	0.0
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Odonata	Pre-App	14.1
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Odonata	Pre-App	5.6
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Odonata	Pre-App	16.2
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Odonata	24 hours	14.3
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Odonata	24 hours	14.6
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Odonata	24 hours	9.0
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Odonata	2 week post	9.7
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Odonata	2 week post	9.9
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Odonata	2 week post	8.6
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Odonata	Pre-App	0.3
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Odonata	2 week post	0.3
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Odonata	2 week post	0.9
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Odonata	2 week post	1.0
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Odonata	Pre-App	4.9
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Odonata	Pre-App	0.7
Stone Lake	SL-01	EI	none	Reference	Percent Odonata	4 week post	3.6
Stone Lake	SL-01	EI	none	Reference	Percent Odonata	4 week post	7.7
Stone Lake	SL-01	EI	none	Reference	Percent Odonata	4 week post	3.9
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Odonata	4 week post	5.2
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Odonata	4 week post	3.9
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Odonata	4 week post	4.2
Stone Lake	SL-01	EI	none	Reference	Percent Odonata	8 week post	0.0
Stone Lake	SL-01	EI	none	Reference	Percent Odonata	8 week post	0.0
Stone Lake	SL-01	EI	none	Reference	Percent Odonata	8 week post	0.0
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Odonata	8 week post	5.9
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Odonata	8 week post	7.6
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Odonata	8 week post	6.7
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	Percent Dominant Family	Pre-App	29.1
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	Percent Dominant Family	Pre-App	39.5
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	Percent Dominant Family	Pre-App	23.5
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Dominant Family	Pre-App	54.5
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Dominant Family	Pre-App	64.0
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Dominant Family	Pre-App	100.0
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Dominant Family	Pre-App	47.1
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Dominant Family	Pre-App	42.4

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Dominant Family	2 week post	46.2
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Dominant Family	2 week post	26.6
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Dominant Family	2 week post	51.2
Costa Ponds	CP-01	Benthos	none	Reference	Percent Dominant Family	Pre-App	64.8
Costa Ponds	CP-01	Benthos	none	Reference	Percent Dominant Family	Pre-App	90.0
Costa Ponds	CP-01	Benthos	none	Reference	Percent Dominant Family	Pre-App	43.5
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Dominant Family	Pre-App	45.6
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Dominant Family	Pre-App	82.8
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Dominant Family	Pre-App	45.0
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Dominant Family	Pre-App	34.8
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Dominant Family	Pre-App	44.4
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Dominant Family	Pre-App	57.9
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Dominant Family	Pre-App	34.6
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Dominant Family	Pre-App	33.3
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Dominant Family	Pre-App	49.1
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Dominant Family	Pre-App	40.0
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Dominant Family	Pre-App	40.4
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Dominant Family	Pre-App	32.4
Costa Ponds	CP-01	Benthos	none	Reference	Percent Dominant Family	2 week post	86.7
Costa Ponds	CP-01	Benthos	none	Reference	Percent Dominant Family	2 week post	87.5
Costa Ponds	CP-01	Benthos	none	Reference	Percent Dominant Family	2 week post	69.6
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Dominant Family	2 week post	44.4
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Dominant Family	2 week post	34.4
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Dominant Family	2 week post	35.7
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Dominant Family	2 week post	38.2
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Dominant Family	2 week post	33.3
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Dominant Family	2 week post	42.1
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Dominant Family	2 week post	61.5
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Dominant Family	2 week post	43.8
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Dominant Family	2 week post	64.0
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Dominant Family	2 week post	26.1
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Dominant Family	2 week post	34.7
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Dominant Family	2 week post	38.2
Costa Ponds	CP-01	Benthos	none	Reference	Percent Dominant Family	6 week post	96.9
Costa Ponds	CP-01	Benthos	none	Reference	Percent Dominant Family	6 week post	95.0
Costa Ponds	CP-01	Benthos	none	Reference	Percent Dominant Family	6 week post	96.3
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Dominant Family	6 week post	41.4
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Dominant Family	6 week post	44.4
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Dominant Family	6 week post	33.3
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Dominant Family	6 week post	38.1
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Dominant Family	6 week post	50.0
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Dominant Family	6 week post	42.9
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Dominant Family	6 week post	28.6
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Dominant Family	6 week post	29.4
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Dominant Family	6 week post	29.0
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Dominant Family	6 week post	68.1
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Dominant Family	6 week post	61.1
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Dominant Family	6 week post	55.6
Doris Drain	D-01	Benthos	Glyphosate	Treated	Percent Dominant Family	3 hours	31.1
Doris Drain	D-01	Benthos	Glyphosate	Treated	Percent Dominant Family	3 hours	28.9
Doris Drain	D-01	Benthos	Glyphosate	Treated	Percent Dominant Family	3 hours	29.3
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Dominant Family	Pre-App	50.0
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Dominant Family	Pre-App	35.5
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Dominant Family	Pre-App	40.4
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Dominant Family	2 week post	21.8
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Dominant Family	2 week post	16.2
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Dominant Family	2 week post	20.5
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Dominant Family	6 week post	48.5
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Dominant Family	6 week post	31.6
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Dominant Family	6 week post	32.8
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Dominant Family	Pre-App	33.3
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Dominant Family	Pre-App	38.1
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Dominant Family	Pre-App	42.9
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Dominant Family	Pre-App	43.8
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Dominant Family	Pre-App	58.3
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Dominant Family	Pre-App	46.2
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Dominant Family	Pre-App	52.6
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Dominant Family	Pre-App	40.5
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Dominant Family	Pre-App	27.8
Nicasio Reservoir	N-11	Benthos	none	Reference	Percent Dominant Family	Pre-App	20.5
Nicasio Reservoir	N-11	Benthos	none	Reference	Percent Dominant Family	Pre-App	32.1
Nicasio Reservoir	N-11	Benthos	none	Reference	Percent Dominant Family	Pre-App	34.8
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Dominant Family	Pre-App	42.4
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Dominant Family	Pre-App	61.5
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Dominant Family	Pre-App	35.3
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Dominant Family	2 week post	35.3

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Dominant Family	2 week post	33.3
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Dominant Family	2 week post	46.2
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Dominant Family	2 week post	29.5
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Dominant Family	2 week post	30.8
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Dominant Family	2 week post	27.6
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Dominant Family	2 week post	33.3
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Dominant Family	2 week post	25.0
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Dominant Family	2 week post	37.2
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Dominant Family	2 week post	45.2
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Dominant Family	2 week post	35.7
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Dominant Family	2 week post	38.7
Nicasio Reservoir	N-14	Benthos	Copper	Treated	Percent Dominant Family	2 week post	45.9
Nicasio Reservoir	N-14	Benthos	Copper	Treated	Percent Dominant Family	2 week post	31.8
Nicasio Reservoir	N-14	Benthos	Copper	Treated	Percent Dominant Family	2 week post	27.3
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Dominant Family	Pre-App	63.4
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Dominant Family	Pre-App	65.3
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Dominant Family	Pre-App	39.3
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Dominant Family	2 week post	53.7
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Dominant Family	2 week post	40.2
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Dominant Family	2 week post	68.6
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Dominant Family	Pre-App	17.2
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Dominant Family	Pre-App	34.4
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Dominant Family	Pre-App	25.7
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Dominant Family	2 week post	13.5
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Dominant Family	2 week post	19.0
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Dominant Family	2 week post	38.6
Sand Bay Isle	SB-01	Benthos	Copper	Treated	Percent Dominant Family	1 week post	39.6
Sand Bay Isle	SB-01	Benthos	Copper	Treated	Percent Dominant Family	1 week post	37.8
Sand Bay Isle	SB-01	Benthos	Copper	Treated	Percent Dominant Family	1 week post	36.6
Sand Bay Isle	SB-02	Benthos	none	Reference	Percent Dominant Family	1 week post	34.6
Sand Bay Isle	SB-02	Benthos	none	Reference	Percent Dominant Family	1 week post	51.1
Sand Bay Isle	SB-02	Benthos	none	Reference	Percent Dominant Family	1 week post	54.5
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Dominant Family	Pre-App	33.3
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Dominant Family	Pre-App	20.8
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Dominant Family	Pre-App	31.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Dominant Family	Pre-App	46.1
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Dominant Family	Pre-App	26.5
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Dominant Family	Pre-App	61.5
Stone Lake	SL-01	Benthos	none	Reference	Percent Dominant Family	4 week post	50.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Dominant Family	4 week post	33.3
Stone Lake	SL-01	Benthos	none	Reference	Percent Dominant Family	4 week post	72.7
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Dominant Family	4 week post	33.3
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Dominant Family	4 week post	36.4
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Dominant Family	4 week post	62.5
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Dominant Family	4 week post	63.6
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Dominant Family	4 week post	38.5
Stone Lake	SL-01	Benthos	none	Reference	Percent Dominant Family	8 week post	50.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Dominant Family	8 week post	50.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Dominant Family	8 week post	76.9
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Dominant Family	8 week post	17.6
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Dominant Family	8 week post	50.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Dominant Family	8 week post	40.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Dominant Family	8 week post	18.2
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Dominant Family	8 week post	12.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Dominant Family	8 week post	16.7
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Percent Dominant Family	Pre-App	61.1
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Percent Dominant Family	Pre-App	35.2
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Percent Dominant Family	Pre-App	56.3
Big Bear Lake	BBC-01	EI	none	Reference	Percent Dominant Family	2 week post	48.5
Big Bear Lake	BBC-01	EI	none	Reference	Percent Dominant Family	2 week post	53.6
Big Bear Lake	BBC-01	EI	none	Reference	Percent Dominant Family	2 week post	41.3
Big Bear Lake	BBP-03	EI	Fluridone	Treated	Percent Dominant Family	2 week post	51.4
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Dominant Family	Pre-App	29.9
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Dominant Family	Pre-App	55.8
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Dominant Family	2 week post	70.2
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Dominant Family	2 week post	57.6
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Dominant Family	2 week post	70.1
Costa Ponds	CP-01	EI	none	Reference	Percent Dominant Family	Pre-App	53.7
Costa Ponds	CP-01	EI	none	Reference	Percent Dominant Family	Pre-App	53.7
Costa Ponds	CP-01	EI	none	Reference	Percent Dominant Family	Pre-App	76.8
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Dominant Family	Pre-App	38.0
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Dominant Family	Pre-App	24.7
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Dominant Family	Pre-App	15.9
Costa Ponds	CP-01	EI	none	Reference	Percent Dominant Family	2 week post	41.5
Costa Ponds	CP-01	EI	none	Reference	Percent Dominant Family	2 week post	33.0
Costa Ponds	CP-01	EI	none	Reference	Percent Dominant Family	2 week post	31.1

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Dominant Family	2 week post	19.7
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Dominant Family	2 week post	32.1
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Dominant Family	2 week post	15.2
Costa Ponds	CP-01	EI	none	Reference	Percent Dominant Family	6 week post	29.2
Costa Ponds	CP-01	EI	none	Reference	Percent Dominant Family	6 week post	55.1
Costa Ponds	CP-01	EI	none	Reference	Percent Dominant Family	6 week post	40.6
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Dominant Family	6 week post	29.9
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Dominant Family	6 week post	27.8
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Dominant Family	6 week post	40.0
Doris Drain	D-01	EI	Glyphosate	Treated	Percent Dominant Family	3 hours	54.5
Doris Drain	D-01	EI	Glyphosate	Treated	Percent Dominant Family	3 hours	50.8
Doris Drain	D-01	EI	Glyphosate	Treated	Percent Dominant Family	3 hours	55.2
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Dominant Family	Pre-App	67.8
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Dominant Family	Pre-App	59.5
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Dominant Family	Pre-App	36.8
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Dominant Family	24 hours	41.3
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Dominant Family	24 hours	52.8
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Dominant Family	24 hours	41.9
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Dominant Family	2 week post	21.7
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Dominant Family	2 week post	54.3
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Dominant Family	2 week post	47.1
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Dominant Family	Pre-App	66.4
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Dominant Family	2 week post	40.1
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Dominant Family	2 week post	40.6
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Dominant Family	2 week post	20.8
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Dominant Family	Pre-App	61.2
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Dominant Family	Pre-App	74.3
Stone Lake	SL-01	EI	none	Reference	Percent Dominant Family	4 week post	85.1
Stone Lake	SL-01	EI	none	Reference	Percent Dominant Family	4 week post	85.7
Stone Lake	SL-01	EI	none	Reference	Percent Dominant Family	4 week post	87.6
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Dominant Family	4 week post	52.6
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Dominant Family	4 week post	54.5
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Dominant Family	4 week post	83.1
Stone Lake	SL-01	EI	none	Reference	Percent Dominant Family	8 week post	47.6
Stone Lake	SL-01	EI	none	Reference	Percent Dominant Family	8 week post	40.5
Stone Lake	SL-01	EI	none	Reference	Percent Dominant Family	8 week post	33.3
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Dominant Family	8 week post	39.4
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Dominant Family	8 week post	28.7
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Dominant Family	8 week post	27.6
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	Percent Dominant Species	Pre-App	29.1
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	Percent Dominant Species	Pre-App	39.5
7 Mile Slough	7MILE-01	Benthos	Diquat	Treated	Percent Dominant Species	Pre-App	23.5
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Dominant Species	Pre-App	54.5
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Dominant Species	Pre-App	64.0
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Dominant Species	Pre-App	100.0
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Dominant Species	Pre-App	47.1
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Dominant Species	Pre-App	21.2
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Dominant Species	Pre-App	55.6
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Dominant Species	Pre-App	63.4
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Dominant Species	Pre-App	61.5
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Dominant Species	Pre-App	75.9
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Dominant Species	Pre-App	73.3
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Dominant Species	Pre-App	63.2
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Dominant Species	Pre-App	30.4
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Dominant Species	Pre-App	60.0
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Dominant Species	Pre-App	57.1
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Dominant Species	Pre-App	25.0
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Dominant Species	Pre-App	53.8
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Dominant Species	Pre-App	36.0
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Dominant Species	Pre-App	36.4
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Dominant Species	2 week post	33.9
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Dominant Species	2 week post	33.3
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Dominant Species	2 week post	32.8
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Dominant Species	2 week post	30.4
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Dominant Species	2 week post	34.1
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Dominant Species	2 week post	21.1
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Dominant Species	2 week post	60.0
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Dominant Species	2 week post	38.1
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Dominant Species	2 week post	31.4
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Dominant Species	2 week post	46.5
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Dominant Species	2 week post	36.8
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Dominant Species	2 week post	50.5
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Dominant Species	2 week post	33.6
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Dominant Species	2 week post	41.2
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Dominant Species	2 week post	16.1
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Dominant Species	2 week post	50.0

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Dominant Species	2 week post	39.2
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Dominant Species	2 week post	48.0
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Dominant Species	6 week post	27.8
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Dominant Species	6 week post	24.7
Bon Tempe Reservoir	B-01	Benthos	Copper	Treated	Percent Dominant Species	6 week post	22.5
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Dominant Species	6 week post	31.8
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Dominant Species	6 week post	40.9
Bon Tempe Reservoir	B-02	Benthos	Copper	Treated	Percent Dominant Species	6 week post	52.4
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Dominant Species	6 week post	24.7
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Dominant Species	6 week post	41.0
Bon Tempe Reservoir	B-03	Benthos	Copper	Treated	Percent Dominant Species	6 week post	23.6
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Dominant Species	6 week post	50.8
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Dominant Species	6 week post	70.4
Bon Tempe Reservoir	B-04	Benthos	Copper	Treated	Percent Dominant Species	6 week post	48.6
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Dominant Species	6 week post	35.1
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Dominant Species	6 week post	31.5
Bon Tempe Reservoir	B-05	Benthos	Copper	Treated	Percent Dominant Species	6 week post	23.7
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Dominant Species	6 week post	33.3
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Dominant Species	6 week post	28.7
Bon Tempe Reservoir	B-06	Benthos	Copper	Treated	Percent Dominant Species	6 week post	32.4
Big Bear Lake	BBC-01	Benthos	none	Reference	Percent Dominant Species	2 week post	38.0
Big Bear Lake	BBC-01	Benthos	none	Reference	Percent Dominant Species	2 week post	38.5
Big Bear Lake	BBC-01	Benthos	none	Reference	Percent Dominant Species	2 week post	36.4
Big Bear Lake	BBE-01	Benthos	Fluridone	Treated	Percent Dominant Species	2 week post	32.7
Big Bear Lake	BBE-01	Benthos	Fluridone	Treated	Percent Dominant Species	2 week post	63.6
Big Bear Lake	BBE-01	Benthos	Fluridone	Treated	Percent Dominant Species	2 week post	66.7
Big Bear Lake	BBE-02	Benthos	Fluridone	Treated	Percent Dominant Species	2 week post	28.6
Big Bear Lake	BBE-02	Benthos	Fluridone	Treated	Percent Dominant Species	2 week post	48.5
Big Bear Lake	BBE-02	Benthos	Fluridone	Treated	Percent Dominant Species	2 week post	45.4
Big Bear Lake	BBP-01	Benthos	Fluridone	Treated	Percent Dominant Species	2 week post	37.7
Big Bear Lake	BBP-01	Benthos	Fluridone	Treated	Percent Dominant Species	2 week post	26.7
Big Bear Lake	BBP-01	Benthos	Fluridone	Treated	Percent Dominant Species	2 week post	27.2
Big Bear Lake	BBP-02	Benthos	Fluridone	Treated	Percent Dominant Species	2 week post	50.0
Big Bear Lake	BBP-02	Benthos	Fluridone	Treated	Percent Dominant Species	2 week post	38.8
Big Bear Lake	BBP-02	Benthos	Fluridone	Treated	Percent Dominant Species	2 week post	50.0
Big Bear Lake	BBP-03	Benthos	Fluridone	Treated	Percent Dominant Species	2 week post	37.5
Big Bear Lake	BBP-03	Benthos	Fluridone	Treated	Percent Dominant Species	2 week post	30.7
Big Bear Lake	BBP-03	Benthos	Fluridone	Treated	Percent Dominant Species	2 week post	26.6
Byrnes Canal	BC-01	Benthos	Copper	Treated	Percent Dominant Species	Pre-App	43.0
Byrnes Canal	BC-01	Benthos	Copper	Treated	Percent Dominant Species	Pre-App	41.0
Byrnes Canal	BC-01	Benthos	Copper	Treated	Percent Dominant Species	Pre-App	32.7
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Dominant Species	Pre-App	45.0
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Dominant Species	Pre-App	49.2
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Dominant Species	Pre-App	38.9
Byrnes Canal	BC-01	Benthos	Copper	Treated	Percent Dominant Species	2 week post	21.8
Byrnes Canal	BC-01	Benthos	Copper	Treated	Percent Dominant Species	2 week post	32.4
Byrnes Canal	BC-01	Benthos	Copper	Treated	Percent Dominant Species	2 week post	27.8
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Dominant Species	2 week post	46.2
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Dominant Species	2 week post	26.6
Byrnes Canal	BC-02	Benthos	Copper	Treated	Percent Dominant Species	2 week post	51.2
Costa Ponds	CP-01	Benthos	none	Reference	Percent Dominant Species	Pre-App	64.8
Costa Ponds	CP-01	Benthos	none	Reference	Percent Dominant Species	Pre-App	90.0
Costa Ponds	CP-01	Benthos	none	Reference	Percent Dominant Species	Pre-App	43.5
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Dominant Species	Pre-App	45.6
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Dominant Species	Pre-App	82.8
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Dominant Species	Pre-App	45.0
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Dominant Species	Pre-App	34.8
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Dominant Species	Pre-App	44.4
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Dominant Species	Pre-App	57.9
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Dominant Species	Pre-App	34.6
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Dominant Species	Pre-App	33.3
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Dominant Species	Pre-App	49.1
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Dominant Species	Pre-App	40.0
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Dominant Species	Pre-App	40.4
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Dominant Species	Pre-App	32.4
Costa Ponds	CP-01	Benthos	none	Reference	Percent Dominant Species	2 week post	86.7
Costa Ponds	CP-01	Benthos	none	Reference	Percent Dominant Species	2 week post	87.5
Costa Ponds	CP-01	Benthos	none	Reference	Percent Dominant Species	2 week post	69.6
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Dominant Species	2 week post	22.2
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Dominant Species	2 week post	25.0
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Dominant Species	2 week post	35.7
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Dominant Species	2 week post	38.2
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Dominant Species	2 week post	20.0
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Dominant Species	2 week post	21.1
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Dominant Species	2 week post	61.5
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Dominant Species	2 week post	43.8

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Dominant Species	2 week post	64.0
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Dominant Species	2 week post	26.1
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Dominant Species	2 week post	34.7
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Dominant Species	2 week post	38.2
Costa Ponds	CP-01	Benthos	none	Reference	Percent Dominant Species	6 week post	96.9
Costa Ponds	CP-01	Benthos	none	Reference	Percent Dominant Species	6 week post	95.0
Costa Ponds	CP-01	Benthos	none	Reference	Percent Dominant Species	6 week post	96.3
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Dominant Species	6 week post	31.0
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Dominant Species	6 week post	22.2
Costa Ponds	CP-02	Benthos	Fluridone	Treated	Percent Dominant Species	6 week post	33.3
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Dominant Species	6 week post	21.4
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Dominant Species	6 week post	25.0
Costa Ponds	CP-03	Benthos	Fluridone	Treated	Percent Dominant Species	6 week post	42.9
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Dominant Species	6 week post	28.6
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Dominant Species	6 week post	29.4
Costa Ponds	CP-04	Benthos	Fluridone	Treated	Percent Dominant Species	6 week post	29.0
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Dominant Species	6 week post	68.1
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Dominant Species	6 week post	61.1
Costa Ponds	CP-05	Benthos	Fluridone	Treated	Percent Dominant Species	6 week post	55.6
Doris Drain	D-01	Benthos	Glyphosate	Treated	Percent Dominant Species	3 hours	31.1
Doris Drain	D-01	Benthos	Glyphosate	Treated	Percent Dominant Species	3 hours	28.9
Doris Drain	D-01	Benthos	Glyphosate	Treated	Percent Dominant Species	3 hours	29.3
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Dominant Species	Pre-App	25.0
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Dominant Species	Pre-App	19.4
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Dominant Species	Pre-App	20.2
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Dominant Species	2 week post	21.8
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Dominant Species	2 week post	16.2
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Dominant Species	2 week post	20.5
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Dominant Species	6 week post	48.5
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Dominant Species	6 week post	31.6
Lake Lagunitas	L-01	Benthos	none	Reference	Percent Dominant Species	6 week post	32.8
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Dominant Species	Pre-App	33.3
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Dominant Species	Pre-App	38.1
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Dominant Species	Pre-App	42.9
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Dominant Species	Pre-App	43.8
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Dominant Species	Pre-App	58.3
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Dominant Species	Pre-App	46.2
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Dominant Species	Pre-App	52.6
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Dominant Species	Pre-App	40.5
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Dominant Species	Pre-App	27.8
Nicasio Reservoir	N-11	Benthos	none	Reference	Percent Dominant Species	Pre-App	20.5
Nicasio Reservoir	N-11	Benthos	none	Reference	Percent Dominant Species	Pre-App	32.1
Nicasio Reservoir	N-11	Benthos	none	Reference	Percent Dominant Species	Pre-App	34.8
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Dominant Species	Pre-App	42.4
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Dominant Species	Pre-App	61.5
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Dominant Species	Pre-App	35.3
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Dominant Species	2 week post	35.3
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Dominant Species	2 week post	33.3
Nicasio Reservoir	N-05	Benthos	Copper	Treated	Percent Dominant Species	2 week post	46.2
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Dominant Species	2 week post	29.5
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Dominant Species	2 week post	30.8
Nicasio Reservoir	N-06	Benthos	Copper	Treated	Percent Dominant Species	2 week post	27.6
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Dominant Species	2 week post	33.3
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Dominant Species	2 week post	25.0
Nicasio Reservoir	N-07	Benthos	Copper	Treated	Percent Dominant Species	2 week post	37.2
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Dominant Species	2 week post	45.2
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Dominant Species	2 week post	35.7
Nicasio Reservoir	N-13	Benthos	none	Reference	Percent Dominant Species	2 week post	38.7
Nicasio Reservoir	N-14	Benthos	Copper	Treated	Percent Dominant Species	2 week post	45.9
Nicasio Reservoir	N-14	Benthos	Copper	Treated	Percent Dominant Species	2 week post	31.8
Nicasio Reservoir	N-14	Benthos	Copper	Treated	Percent Dominant Species	2 week post	27.3
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Dominant Species	Pre-App	63.4
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Dominant Species	Pre-App	65.3
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Dominant Species	Pre-App	39.3
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Dominant Species	2 week post	53.7
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Dominant Species	2 week post	40.2
East Fork Russian River	PV-01	Benthos	Copper	Treated	Percent Dominant Species	2 week post	68.6
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Dominant Species	Pre-App	17.2
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Dominant Species	Pre-App	34.4
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Dominant Species	Pre-App	25.7
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Dominant Species	2 week post	13.5
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Dominant Species	2 week post	19.0
Sand Bay Isle	SB-01	Benthos	Diquat	Treated	Percent Dominant Species	2 week post	38.6
Sand Bay Isle	SB-01	Benthos	Copper	Treated	Percent Dominant Species	1 week post	39.6
Sand Bay Isle	SB-01	Benthos	Copper	Treated	Percent Dominant Species	1 week post	37.8
Sand Bay Isle	SB-01	Benthos	Copper	Treated	Percent Dominant Species	1 week post	36.6

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Sand Bay Isle	SB-02	Benthos	none	Reference	Percent Dominant Species	1 week post	34.6
Sand Bay Isle	SB-02	Benthos	none	Reference	Percent Dominant Species	1 week post	51.1
Sand Bay Isle	SB-02	Benthos	none	Reference	Percent Dominant Species	1 week post	54.5
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Dominant Species	Pre-App	33.3
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Dominant Species	Pre-App	20.8
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Dominant Species	Pre-App	31.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Dominant Species	Pre-App	46.1
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Dominant Species	Pre-App	26.5
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Dominant Species	Pre-App	61.5
Stone Lake	SL-01	Benthos	none	Reference	Percent Dominant Species	4 week post	50.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Dominant Species	4 week post	33.3
Stone Lake	SL-01	Benthos	none	Reference	Percent Dominant Species	4 week post	72.7
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Dominant Species	4 week post	33.3
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Dominant Species	4 week post	36.4
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Dominant Species	4 week post	62.5
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Dominant Species	4 week post	63.6
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Dominant Species	4 week post	38.5
Stone Lake	SL-01	Benthos	none	Reference	Percent Dominant Species	8 week post	50.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Dominant Species	8 week post	50.0
Stone Lake	SL-01	Benthos	none	Reference	Percent Dominant Species	8 week post	76.9
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Dominant Species	8 week post	17.6
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Dominant Species	8 week post	50.0
Stone Lake	SL-02A	Benthos	Glyphosate	Treated	Percent Dominant Species	8 week post	40.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Dominant Species	8 week post	18.2
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Dominant Species	8 week post	12.0
Stone Lake	SL-02B	Benthos	Glyphosate	Treated	Percent Dominant Species	8 week post	16.7
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Percent Dominant Species	Pre-App	61.1
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Percent Dominant Species	Pre-App	35.2
7 Mile Slough	7MILE-01	EI	Diquat	Treated	Percent Dominant Species	Pre-App	56.3
Big Bear Lake	BBC-01	EI	none	Reference	Percent Dominant Species	2 week post	48.5
Big Bear Lake	BBC-01	EI	none	Reference	Percent Dominant Species	2 week post	53.6
Big Bear Lake	BBC-01	EI	none	Reference	Percent Dominant Species	2 week post	41.3
Big Bear Lake	BBP-03	EI	Fluridone	Treated	Percent Dominant Species	2 week post	51.4
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Dominant Species	Pre-App	29.9
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Dominant Species	Pre-App	55.8
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Dominant Species	2 week post	70.2
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Dominant Species	2 week post	57.6
Byrnes Canal	BC-02	EI	Copper	Treated	Percent Dominant Species	2 week post	70.1
Costa Ponds	CP-01	EI	none	Reference	Percent Dominant Species	Pre-App	53.7
Costa Ponds	CP-01	EI	none	Reference	Percent Dominant Species	Pre-App	53.7
Costa Ponds	CP-01	EI	none	Reference	Percent Dominant Species	Pre-App	76.8
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Dominant Species	Pre-App	38.0
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Dominant Species	Pre-App	24.7
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Dominant Species	Pre-App	15.9
Costa Ponds	CP-01	EI	none	Reference	Percent Dominant Species	2 week post	41.5
Costa Ponds	CP-01	EI	none	Reference	Percent Dominant Species	2 week post	33.0
Costa Ponds	CP-01	EI	none	Reference	Percent Dominant Species	2 week post	31.1
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Dominant Species	2 week post	19.7
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Dominant Species	2 week post	32.1
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Dominant Species	2 week post	15.2
Costa Ponds	CP-01	EI	none	Reference	Percent Dominant Species	6 week post	29.2
Costa Ponds	CP-01	EI	none	Reference	Percent Dominant Species	6 week post	55.1
Costa Ponds	CP-01	EI	none	Reference	Percent Dominant Species	6 week post	40.6
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Dominant Species	6 week post	29.9
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Dominant Species	6 week post	27.8
Costa Ponds	CP-02	EI	Fluridone	Treated	Percent Dominant Species	6 week post	40.0
Doris Drain	D-01	EI	Glyphosate	Treated	Percent Dominant Species	3 hours	54.5
Doris Drain	D-01	EI	Glyphosate	Treated	Percent Dominant Species	3 hours	50.8
Doris Drain	D-01	EI	Glyphosate	Treated	Percent Dominant Species	3 hours	55.2
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Dominant Species	Pre-App	67.8
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Dominant Species	Pre-App	59.5
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Dominant Species	Pre-App	36.8
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Dominant Species	24 hours	41.3
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Dominant Species	24 hours	52.8
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Dominant Species	24 hours	41.9
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Dominant Species	2 week post	21.7
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Dominant Species	2 week post	54.3
Bear Creek	H-01	EI	Triclopyr	Treated	Percent Dominant Species	2 week post	47.1
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Dominant Species	Pre-App	66.3
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Dominant Species	2 week post	40.1
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Dominant Species	2 week post	40.6
Sand Bay Isle	SB-01	EI	Diquat	Treated	Percent Dominant Species	2 week post	20.8
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Dominant Species	Pre-App	61.2
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Dominant Species	Pre-App	74.3
Stone Lake	SL-01	EI	none	Reference	Percent Dominant Species	4 week post	85.1
Stone Lake	SL-01	EI	none	Reference	Percent Dominant Species	4 week post	85.7

Appendix Table 4. APMP Phase 2 Raw, unpooled values for biological metrics by stations within sites

SiteName	StationCode	SampleType	Pesticide	StationType	Metric	Application Interval	Result
Stone Lake	SL-01	EI	none	Reference	Percent Dominant Species	4 week post	87.6
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Dominant Species	4 week post	52.6
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Dominant Species	4 week post	54.5
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Dominant Species	4 week post	83.1
Stone Lake	SL-01	EI	none	Reference	Percent Dominant Species	8 week post	47.6
Stone Lake	SL-01	EI	none	Reference	Percent Dominant Species	8 week post	40.5
Stone Lake	SL-01	EI	none	Reference	Percent Dominant Species	8 week post	33.3
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Dominant Species	8 week post	39.4
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Dominant Species	8 week post	28.7
Stone Lake	SL-02	EI	Glyphosate	Treated	Percent Dominant Species	8 week post	27.6