

Appendix Va. Means and coefficient of variation (CV) for bioassessment metrics from samples collected in May 1998 within the San Diego watershed, San Diego County, California.

Site:	Aliso Creek AC-PPD		Aliso Creek AC-CCR		Murieta Creek MC-WB		Murrieta Creek MC-GS		Temecula Creek TC-II5		Santa Margarita SMR-WGR		Rainbow Creek RC-WGR		Sandia Creek SC-SCR		Santa Margarita SMR-DP		Santa Margarita SMR-CP		Santa Margarita SMR-SMB		San SL
	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean
Taxa Richness	8	33	7	17	10	11	13	12	9	22	11	27	6	10	18	24	8	8	22	37	13	15	19
Percent Dominant Taxon	55	3	66	12	76	20	36	37	37	24	53	25	58	13	39	27	49	16	28	18	79	11	29
Ephemeropteran Taxa	1	43	1	0	1	43	2	25	2	0	3	0	1	0	1	43	2	0	4	0	4	16	3
Plecopteran Taxa	0	--	0	--	0	--	0	--	0	--	0	--	0	--	1	87	0	--	0	--	0	--	2
Trichopteran Taxa	1	87	0	--	0	--	0	--	1	87	1	0	0	--	5	35	1	0	1	0	0	--	1
EPT Taxa	2	50	1	0	1	43	3	22	3	22	4	0	1	0	7	29	3	0	5	0	4	25	6
EPT Index (%)	33	27	11	49	8	75	21	44	18	57	60	22	3	62	58	16	52	16	55	21	7	72	39
Sensitive EPT Index	0	--	0	--	0	--	0	--	0	--	0	--	0	--	3	48	0	--	0	--	0	--	8
Percent Baetidae	33	28	11	49	8	75	21	43	17	57	56	24	3	62	39	27	49	18	39	24	6	81	29
Percent Hydropsychidae	0	--	0	--	0	--	0	--	0	88	3	16	0	--	15	48	3	42	5	72	0	--	1
Dipteran Taxa	3	17	2	65	6	10	3	17	4	13	4	25	3	17	5	25	3	22	8	63	5	25	5
Percent Dipteran	58	6	67	13	15	63	38	16	48	15	34	18	38	19	34	36	36	15	22	22	13	50	27
Non-Insect Taxa	3	78	3	17	3	33	6	20	2	50	2	65	1	43	3	46	2	0	4	35	4	13	6
Percent Non-Insect	9	64	22	34	77	19	41	34	34	42	7	102	58	13	7	65	12	27	21	34	80	10	32
Percent Chironomidae	56	5	67	13	8	85	21	13	30	11	9	19	33	21	22	39	19	38	5	27	10	72	19
Shannon Diversity	1.1	20	1.0	11	0.9	45	1.6	6	1.5	10	1.4	23	1.0	11	1.7	17	1.4	7	2.2	7	0.9	32	2.1
Tolerance Value	5.3	3	5.7	4	7.4	6	6.4	7	6.2	7	5.4	5	6.8	3	5.0	1	5.5	2	5.5	3	7.4	3	5.9
Percent Intolerant (0-2)	0	--	0	--	0	--	0	--	0	--	0	--	0	--	2	65	0	--	0	102	0	--	8
Percent Tolerant (8-10)	8	53	22	32	77	19	39	38	33	50	7	103	58	13	4	92	11	35	17	13	80	10	31
Percent Collectors	63	8	89	6	82	14	57	20	61	25	13	38	91	4	28	28	31	37	34	26	90	5	52
Percent Filterers	3	81	0	--	9	55	18	23	21	46	30	24	6	29	27	56	19	25	14	38	4	23	15
Percent Grazers	33	27	11	49	9	73	24	33	18	56	56	23	4	66	40	25	49	18	39	24	6	81	30
Percent Predators	1	145	0	--	1	76	1	68	1	152	1	90	0	--	3	62	1	70	11	67	1	43	3
Percent Shredders	0	--	0	--	0	--	0	--	0	--	0	--	0	--	2	66	0	--	1	71	0	--	0
Abundance (#/ sample)	461	111	413	70	956	4	1000	37	3432	65	1997	18	8779	72	801	32	926	48	446	72	928	85	2991

Appendix Va. Means and coefficient of variation (CV) for bioassessment metrics from samples collected in May 1998 within the San Diego watershed, San Diego County, California.

	Luis Rey River Site: RR-PG CV	San Luis Rey River SLRR-395 Mean CV	San Luis Rey River SLRR-MR Mean CV	San Luis Rey River SLRR-FR Mean CV	Keys Creek KC-LR Mean CV	Loma Alta Creek LAC-CB Mean CV	Loma Alta Creek LAC-ECR Mean CV	Buena Vista Creek BVR-ED Mean CV	Buena Vista Creek BVR-SVW Mean CV	Agua Hedionda AHC-SA Mean CV	Agua Hedionda AHC-ECR Mean CV
Taxa Richness	17	16 4	14 12	17 21	19 8	9 19	12 14	8 14	13 8	11 10	16 18
Percent Dominant Taxon	24	35 5	53 38	51 42	34 19	60 33	43 46	58 14	45 21	47 47	40 22
Ephemeropteran Taxa	33	4 25	3 0	3 22	2 35	1 100	1 43	1 0	2 0	1 87	2 0
Plecopteran Taxa	35	0 --	0 --	0 --	0 --	0 --	0 --	0 --	0 --	0 --	0 --
Trichopteran Taxa	87	1 43	0 --	0 --	2 35	0 --	0 --	1 0	1 0	0 --	1 0
EPT Taxa	17	5 22	3 17	3 0	3 17	1 100	1 43	2 0	3 0	1 87	3 0
EPT Index (%)	27	53 9	32 46	4 18	21 37	0 109	17 70	51 37	18 10	3 136	9 85
Sensitive EPT Index	63	0 87	0 --	0 --	0 87	0 --	0 --	0 --	0 --	0 --	0 --
Percent Baetidae	27	44 6	26 45	4 25	18 44	0 88	17 70	48 37	15 8	3 136	9 89
Percent Hydropsychidae	88	1 69	0 --	0 --	3 37	0 --	0 --	0 --	0 --	0 --	0 4
Dipteran Taxa	20	4 50	5 25	7 38	8 22	5 60	7 21	4 13	4 27	3 17	6 24
Percent Dipteran	66	37 29	63 26	69 30	68 1	39 52	67 32	46 39	29 27	40 58	71 11
Non-Insect Taxa	20	6 24	5 53	7 14	5 40	3 33	3 17	2 50	6 37	7 8	6 33
Percent Non-Insect	31	10 63	5 57	26 76	9 72	61 33	16 63	2 41	54 12	57 47	19 28
Percent Chironomidae	34	17 38	9 66	30 46	31 21	37 49	28 21	45 41	23 53	39 57	35 31
Shannon Diversity	11	1.9 4	1.5 25	1.4 28	1.9 8	1.0 39	1.4 20	1.1 5	1.7 11	1.6 21	1.7 9
Tolerance Value	4	5.2 3	5.5 4	6.1 5	5.7 3	6.9 7	5.8 1	5.1 0	6.7 2	6.7 10	5.9 1
Percent Intolerant (0-2)	65	0 --	0 --	0 --	0 87	0 --	0 --	0 --	0 --	0 --	0 --
Percent Tolerant (8-10)	30	9 60	4 71	23 88	7 79	61 33	15 65	2 40	53 12	52 46	19 28
Percent Collectors	6	31 34	17 44	52 61	21 24	88 13	43 34	45 41	72 4	46 50	48 25
Percent Filterers	75	22 58	54 37	39 85	53 1	11 101	38 69	3 46	10 23	12 47	41 31
Percent Grazers	28	45 6	26 45	4 34	18 46	1 93	17 69	51 37	18 10	38 64	9 89
Percent Predators	41	2 37	2 24	5 46	7 45	1 67	2 30	0 100	1 42	4 68	1 47
Percent Shredders	87	0 --	0 --	0 --	0 100	0 --	0 --	0 --	0 --	0 --	0 --
Abundance (#/ sample)	41	2600 85	3578 74	1221 40	3510 30	3662 24	3511 36	1946 54	7410 27	1797 42	908 70

Appendix Va. Means and coefficient of variation (CV) for bioassessment metrics from samples collected in May 1998 within the San Diego watershed, San Diego County, California.

Site:	San Marcos Creek		San Marcos Creek		San Marcos Creek		San Marcos Creek		Encinitas Creek		Escondido Creek		Escondido Creek		Escondido Creek		Rattlesnake Creek		Los Penasquitas		Los Penasquitas		San Diego River		San Francisco	
	SMC-SP		SMC-M		SMC-RSFR		SMC-LCCC		EC-GVR		EC-HRB		EC-EF		EC-RSFR		RC-HP		LPC-CCR		LPC-BMR		SDR-MD		SF-SD	
	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV
Taxa Richness	12	10	8	15	10	6	10	11	8	20	14	4	12	12	14	16	14	19	14	11	13	25	12	25	11	11
Percent Dominant Taxon	39	6	36	4	67	20	56	6	37	16	34	10	51	19	47	48	35	55	41	33	51	23	54	34	58	
Ephemeropteran Taxa	2	0	1	43	2	0	2	35	1	0	2	25	2	25	1	100	2	0	2	0	2	0	2	0	2	0
Plecopteran Taxa	0	--	0	--	0	--	0	--	0	--	0	--	0	--	0	--	0	--	0	--	0	--	0	--	0	--
Trichopteran Taxa	1	0	0	--	1	87	1	43	0	--	1	0	2	0	0	--	1	0	2	0	2	35	0	--	0	--
EPT Taxa	3	0	1	43	3	22	3	0	1	0	3	17	4	13	1	100	3	0	4	0	4	16	2	0	2	0
EPT Index (%)	49	15	26	32	22	55	34	9	1	43	25	22	61	22	1	128	33	43	62	39	66	20	10	42	28	
Sensitive EPT Index	0	--	0	--	0	--	0	--	0	--	0	--	0	--	0	--	0	--	0	--	0	--	0	--	0	--
Percent Baetidae	40	5	26	32	21	58	32	8	1	43	21	20	54	19	1	124	23	31	46	44	62	22	10	42	28	
Percent Hydropsychidae	0	--	0	--	0	--	1	81	0	--	0	--	5	67	0	--	0	--	7	82	3	48	0	--	0	--
Dipteran Taxa	3	17	3	17	4	0	4	31	3	17	4	0	4	13	5	12	7	17	5	11	5	12	4	25	4	
Percent Dipteran	22	34	52	15	74	18	61	3	83	11	45	9	36	39	28	44	32	27	19	84	24	48	61	31	63	
Non-Insect Taxa	5	11	3	33	3	33	4	31	3	46	6	18	3	67	7	34	4	43	4	35	4	63	6	33	5	
Percent Non-Insect	29	42	22	62	4	35	5	51	16	56	31	12	2	75	68	20	35	63	18	112	10	27	29	61	9	
Percent Chironomidae	22	36	29	37	7	22	5	46	68	17	40	7	11	45	26	37	19	20	13	89	10	35	7	37	5	
Shannon Diversity	1.5	4	1.5	5	1.0	25	1.2	6	1.4	6	1.9	2	1.4	4	1.7	35	1.9	17	1.8	21	1.6	13	1.4	22	1.2	
Tolerance Value	5.9	5	5.9	6	5.8	2	5.7	1	5.9	4	5.9	1	5.3	2	5.7	22	6.2	9	5.5	12	5.3	3	6.2	2	5.7	
Percent Intolerant (0-2)	0	--	0	--	0	--	0	--	0	--	0	--	0	--	0	--	0	--	1	87	0	87	0	--	0	--
Percent Tolerant (8-10)	27	43	22	63	3	29	5	54	16	60	29	11	2	89	30	96	35	68	16	140	10	27	23	53	8	
Percent Collectors	47	13	47	39	10	14	9	48	52	14	66	10	12	27	78	9	48	50	21	97	18	19	30	44	12	
Percent Filterers	2	32	26	38	68	20	58	8	46	16	6	76	32	34	14	27	14	67	13	84	17	55	54	35	58	
Percent Grazers	49	15	26	32	22	55	32	9	1	45	25	19	55	19	4	50	33	41	55	50	63	22	10	42	28	
Percent Predators	2	54	0	87	0	99	0	87	0	99	3	48	1	79	4	127	5	28	11	80	3	70	6	92	1	
Percent Shredders	0	--	0	--	0	--	0	--	0	--	0	--	0	--	0	--	0	--	0	--	0	--	0	--	0	--
Abundance (#/ sample)	2846	100	6655	1	5470	27	#####	48	3218	86	2256	41	4997	123	2581	85	5255	52	4189	50	5360	41	5547	48	5305	

Appendix Va. Means and coefficient of variation (CV) for bioassessment metrics from samples collected in May 1998 within the San Diego watershed, San Diego County, California.

	San Diego River Site: R-MT CV	San Diego River SDR-1 Mean CV	Sweetwater River SR-79 Mean CV	Sweetwater River SR-94 Mean CV	Sweetwater River SR-WS Mean CV
Taxa Richness	18	14 28	20 5	12 37	14 4
Percent Dominant Taxon	29	65 24	33 31	49 28	61 24
Ephemeropteran Taxa	0	2 50	2 65	1 0	1 100
Plecopteran Taxa	--	0 --	1 87	0 --	0 --
Trichopteran Taxa	--	0 --	2 50	0 --	1 0
EPT Taxa	25	2 65	5 35	1 0	2 50
EPT Index (%)	44	2 68	16 49	3 42	7 87
Sensitive EPT Index	--	0 --	2 42	0 --	0 --
Percent Baetidae	44	2 74	14 52	3 42	5 119
Percent Hydropsychidae	--	0 --	0 --	0 --	0 --
Dipteran Taxa	16	4 25	7 31	7 57	7 0
Percent Dipteran	21	71 23	57 7	55 34	70 22
Non-Insect Taxa	20	7 49	7 29	5 33	5 11
Percent Non-Insect	30	27 61	27 21	42 43	22 74
Percent Chironomidae	85	6 44	40 15	12 5	8 9
Shannon Diversity	19	1.2 36	2.0 6	1.5 24	1.4 23
Tolerance Value	3	6.5 5	5.9 3	6.7 5	6.3 6
Percent Intolerant (0-2)	--	0 --	1 48	0 --	0 --
Percent Tolerant (8-10)	35	27 60	24 14	42 44	20 87
Percent Collectors	46	31 47	58 16	49 37	19 72
Percent Filterers	29	66 24	21 41	44 48	63 25
Percent Grazers	41	3 63	15 53	4 57	13 39
Percent Predators	45	0 42	5 47	2 30	5 58
Percent Shredders	--	0 --	0 --	0 88	0 --
Abundance (#/ sample)	26	9656 33	1168 48	4840 38	4862 36