

Table IX-5

Biological Metric Values for Benthic Macroinvertebrate (BMI) Assemblages					
Carmel River, Monterey County - November 2007					
METRICS	CARMEL RIVER SITES				
	RM 26.2	RM 24.4	RM 17.4	RM 15.7	RM 9.0
	Los Padres	Cachagua	Sleepy Hollow	Stonepine	Scarlett Well
Taxonomic Richness	32	21	19	23	25
EPT Taxa ¹	8	5	5	8	7
Ephemeroptera Taxa	1	1	1	2	2
Plecoptera Taxa	3	0	1	1	1
Trichoptera Taxa	4	4	3	5	4
EPT Index (%)	18	18	28	31	34
Sensitive EPT Index (%)	3.1	0.8	0.6	2.6	10
Shannon Diversity	1.7	1.7	1.9	1.6	2.3
Dominant Taxon (%)	58	50	33	53	25
Tolerance Value	5.5	5.8	5.9	5.6	5.4
Intolerant Organisms (%)	3.5	1.0	0.6	2.6	9.6
Tolerant Organisms (%)	4.5	5.9	15	4.0	23
Collector-Gatherers (%)	27	32	54	34	37
Collector-Filterers (%)	58	51	35	56	35
Scrapers (%)	4.7	1.2	2.4	0.8	9.2
Predators (%)	6.7	15	8.0	7.2	8.4
Shredders (%)	1.6	0.0	1.0	0.8	0.2
Other (%)	1.4	1.0	0.0	1.4	9.0
Estimated Abundance					
Composite sample (18 ft ²)	4100	6960	8040	7030	14200
Site (BMIs/ft ²)	228	387	447	391	789
Site (BMIs/m ²)	2452	4163	4809	4205	8494
Estimated Biovolume					
ml/ft ²	0.40	0.47	0.38	0.37	1.45
ml/m ²	4.3	5.1	4.1	4.0	16
Central Coast IBI Metrics					
Intolerant Individuals (%)	3.5	1.0	0.6	2.6	9.6
Collector Individuals (%)	44	43	47	43	44
Non-Insect Taxa (%)	16	24	21	22	32
Tolerant Taxa (%)	22	29	16	22	20
Coleoptera Richness	4	0	1	1	1
Predator Richness	11	8	6	8	7
EPT Richness	8	5	5	8	7

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¹EPT taxa are *Ephemeroptera*, *Plecoptera*, *Tricoptera* which are the primary steelhead food
 RM = River Mile measured from river mouth at Carmel Bay