

13/5/22

Macroinvertebrate Sampling Record Sheet

041

Site: Dandenong Creek at Napier Park ME_DDN050

Collector:

Date:

ALT Habitats 0%-100% (in 5% increments)	%	Sampling minutes
Boulder, Cobble, Course substrate		
Gravel	5	5
Sand/silt depositional areas	90	
Leaf packs		
Wood, snags	10	
Water plants	5	
Edge plants, reeds, rushes		
Open water		

Weather Conditions (Tick - ✓)	Fine ✓	Bad	Really bad
			Go home!
Sample processed undercover? (circle)	(Y)	N	
Light conditions (Tick - ✓)	Good	Part shade	Heavy shade
		✓	

Associated Photos (Site/Habitat):

Associated Photos (Unknown waterbugs/QAQC)

Creatures Agreed Level Taxonomy Method

Species	Score	Number
✓ Phylum Annelida, Class Hirudinea (Leeches)	1	1
✓ " " " Oligochaeta, (Worms)	2	20
✓ " Turbellaria, (flat worms) (New Zealand mud snail)	2	20
✓ Family Hydrobiidae - Potamopyrgus antipodicum	3	1
✓ " Physidae, Species Physa acuta (marbled menace)	2	10
✓ " Simuliidae (Black Fly larvae)	5	2
✓ " Chironomidae several genera (blood worms)	4	4
✓ " " (chironomids)	4	2
" Culicidae (mosquito larvae, wugglers)	1	1
" Corixidae (little bridge boatman) - juvenile	3	1

Total: 28 Sigival score 2.3 (Water scavenger beetle adult)

g. Family Hydrophilidae ← 2 would not date.

v1.5	Site name	Date
	Dandenong Creek Napier Park	13/5/22

page	Names	SIGNALT	1-2	3-5	6-10	11-20	>20	raw count
1. ALT Animals without keys (this is as far as they go)								
10	Phylum Nematomorpha, (gordian worms)	6						
10	Phylum Nematoda, (roundworms)	3						
10	Phylum Annelida, Class Hirudinea, (leeches)	1	1					
11	Phylum Annelida, Class Oligochaeta, (worms)	2				20		
11	Phylum Turbellaria, (flatworms)	2				20		
11	Order Araneae (fishing and wolf spiders)	5						
12	Order Acarina, (water mites)	5						
12	Order Megaloptera, Family Corydalidae (toebiters)	10						
12	Order Megaloptera, Family Sialidae (sialids)	5						
13	Order Neuroptera (lacewings)	6						
13	Order Lepidoptera (aquatic caterpillars)	3						
2. ALT Key to freshwater snails and mussels (Mollusca)								
14	Family Hyriidae (freshwater mussels)	5						
15	Family Sphaeriidae and Family Corbiculidae (basket and pea shells)	5						
15	Family Ancylidae (freshwater limpets)	4						
16	Family Planorbidae, various genera (flat snails)	1						
17	Family Hydrobiidae - <i>Potamopyrgus antipodarum</i> (New Zealand mud snail)	3	1					
18	Family Lymnaeidae (pond snails)	1						
19	Family Physidae, Species <i>Physa acuta</i> (marbled menace)	2			10			
19	Family Planorbidae, various genera (planorbids)	2						
20	Family Pomatiopsidae, Genus <i>Coxiella</i> (salt lake snail)	1						
20	Family Hydrobiidae, Genus <i>Beddomeia</i>	3						
20	Family Viviparidae, Genus <i>Notopala</i>	4						
3. ALT Key to Crustaceans (Crustacea)								
22	Family Parastacidae (freshwater crayfish or yabbies)	1						
23	Family Palaemonidae, Genus <i>Macrobrachium</i> (freshwater prawn)	4						
23	Family Atyidae (glass shrimp)	3						
23	Family Atyidae, Genus <i>Australatya</i> (GT shrimp)	3						
24	Family Hymenosomatidae (five cent crab, false spider crab)	3						
25	Order Isopoda, Family Phraetoicidae, (phraetoicids, cow shrimp)	4						
26	Order Amphipoda (scuds, sideswimmers)	3						
26	Order Isopoda, Family Janiridae (water slaters)	3						
27	Order Isopoda, Family Sphaeromatidae (sphaeromatids)	1						
27	Order Anostraca (fairy shrimp and introduced sea monkeys)	1						
28	Order Notostraca (shield shrimp, tadpole shrimp)	1						
28	Order Conchostraca (clam shrimp)	1						
4a. ALT key to Adult Beetles (Coleoptera)								
30	Family Curculionidae (weevils)	2						
31	Family Elmidae (riffle beetles)	7						
32	Families Hydraenidae and Hydrochidae (crawling water beetles)	6						
32	Family Hydrophilidae, Genus <i>Helochaers</i>	2						
33	Family Gyrinidae (whirligig beetles)	4						
34	Family Hygrobiidae, Genus <i>Hygrobia</i> (screech beetles)	1						
34	Family Hydrophilidae (water scavenger beetles)	2						
35	Family Dytiscidae, Genus <i>Australphilus</i>	3						
35	Family Dytiscidae, Genus <i>Carabhydrus</i> (waisted diving beetles)	8						
35	Family Dytiscidae, various genera (little diving beetles)	1						
36	Family Dytiscidae, various genera (mixed diving beetles)	4						
36	Family Dytiscidae, various genera (stealth diving beetles)	1						
37	Family Dytiscidae, Genus <i>Lancetes</i>	2						
37	Family Dytiscidae, Genus <i>Eretes</i>	1						
37	Family Dytiscidae, Genus <i>Rhantus</i>	1						
38	Family Dytiscidae, Genus <i>Hyderodes</i>	2						
38	Family Dytiscidae, Genus <i>Spencerhydrus</i>	5						
38	Family Dytiscidae, Genus <i>Onychohydrus</i>	5						

v1.5	Site name	ME-100N 041	Date
	Dandeng Ck, Napier Park		13/5/22

page	Names	SIGNALT	1-2	3-5	6-10	11-20	>20	raw count
4b. ALT Key to Beetle Larvae (Coleoptera)								
40	Family Psephenidae, Genus Sclerocyphon (water pennies)	6						
41	Family Scirtidae (marsh beetles)	6						
41	Family Elmidae (riffle beetles)	7						
41	Family Ptilodactylidae, Genus, Byrrhocryptus (ptilodactylids)	10						
42	Family Gyrinidae (whirligig beetles)	4						
43	Family Hydrophilidae (water scavenger beetle larvae)	2						
43	Family Hydrophilidae Genus Berosus (tasselled scavenger)	2						
43	Family Hydrophilidae Genus Hydrophilus (Ugly Bob)	2						
44	Family Dytiscidae, (nosey tigers)	3						
45	Family Dytiscidae, (crawling water tigers)	5						
45	Family Dytiscidae, (taper-tailed tigers)	2						
45	Family Dytiscidae, (two-tailed tigers)	6						
46	Family Hygrobiidae, Genus Hygrobia (screech beetle larvae)	1						
46	Family Haliplidae, Genus Haliplus (tortoise beetle larvae)	2						
5. ALT Key to True Fly Larvae								
48	Family Blephariceridae (bleffs)	10						
49	Family Athericidae (tasselled maggots)	8						
49	Families Tabanidae, Dolichopodidae, Empididae some Tipulidae (assort)	3						
50	Family Simuliidae (black fly larvae)	5	2					
51	Family Chironomidae, several genera (blood worms)	4		4				
51	Family Ceratopogonidae (pogs)	4						
52	Family Chironomidae (chironomids)	4	2					
52	Family Tipulidae (crane fly larvae)	5						
53	Family Stratiomyidae (soldier fly larvae)	2						
53	Family Psychodidae (moth fly larvae)	3						
54	Family Dixidae ('U' bent midges)	7						
54	Family Culicidae (mosquito larvae, wrigglers)	1	1					
55	Family Syrphidae (rat tailed maggot)	2						
55	Family Ephydriidae and Sciomyzidae (wetland maggots)	1						
56	Family Chironomidae, Genus <i>Symbiocladius</i> (backpack midge)	8						
56	Family Chaoboridae (phantom midges)	2						
6. ALT Key to Mayflies (Ephemeroptera)								
58	Family Caenidae (caenids)	4						
58	Family Oniscigastridae, Genus <i>Tasmanophlebia</i> (oniscigastrids)	8						
59	Family Coloburiscidae, Genus <i>Coloburiscoides</i> (stream horses)	8						
59	Family Ameletopsidae, Genus <i>Mirawara</i> (killer mayflies/ purple perils)	7						
60	Family Siphonuridae (siphonurids)	10						
61	Family Baetidae (baetids)	5						
62	Family Leptophlebiidae, Genus <i>Atalophlebia</i>	10						
62	Family Leptophlebiidae, Genus <i>Jappa</i>	8						
63	Family Leptophlebiidae (leptophlebs) various genera	8						
7. ALT Key to True Bugs (Hemiptera)								
65	Family Hydrometridae (water measurers)	3						
66	Family Gerridae (water striders)	4						
66	Families Veliidae/ Mesoveliidae/ Hebridae (water treaders)	1						
67	Family Gelastocoridae (toad bugs)	5						
68	Family Nepidae, Genus <i>Ranatra</i> (slender water scorpions/stick bug)	2						
68	Family Nepidae, Genus <i>Laccotrephes</i> (leafy water scorpions)	4						
69	Family Pleidae (pygmy backswimmers)	2						
70	Family Notonectidae, Genus <i>Enithares</i> (robust backswimmers)	3						
70	Family Notonectidae, Genus <i>Anisops</i> (slender backswimmers)	2						
71	Family Naucoridae, Genus <i>Naucoris</i> (creeping water bugs)	2						
71	Family Belostomatidae, Genus <i>Diplonychus</i> (giant water bugs).	1						
73	Family Corixidae, Genus <i>Sigara</i> (striped boatman)	4						
73	Family Corixidae, Genus <i>Micronecta</i> (little brindle boatman)	3						
74	Family Corixidae genus <i>Agraptocorixa</i> (static boatmen)	1						
74	Family Corixidae, Species <i>Diaprepocoris barycephala</i>	5						

1 Juvenik
Corixidae

v1.5

Site name		Date						
page	Names	SIGNAL T	1-2	3-5	6-10	11-20	>20	raw count
8. ALT Key to Dragonfly and Damselfly larvae (Odonata)								
76	Family Megapodagrionidae (fan-tailed damselfly larvae)	5						
76	Family Synlestidae (short-tailed damselfly larvae)	7						
77	Family Isostictidae (split-tailed damselfly larvae)	3						
77	Family Diphlebiidae (sack-tailed damselfly larvae)	6						
78	Family Lestidae and Family Coenagrionidae (leaf-tailed damselfly larvae)	1						
79	various families (spider mud eye)	4						
79	Family Gomphidae (gomphids)	5						
80	Family Telephlebiidae (teleflebs)	9						
80	Family Aeshnidae (cotta mud eye)	4						
9. ALT Key to Stoneflies (Plecoptera)								
82	Family Eustheniidae (U sthenids)	10						
83	Family Austroperlidae, Species Acruroperla atra	6						
83	Family Austroperlidae, all other species	10						
84	Family Notonemouridae (notonemourids)	6						
85	Family Gripopterygidae, various genera (hairy sprawler)	10						
85	Family Gripopterygidae, Genus Illiesoperla (blond sprawler)	6						
86	Family Gripopterygidae, Genus Riekoperla (spiky reek o perla)	10						
86	Family Gripopterygidae, various genera (gripops or fluffy bums)	9						
10. ALT Key to Caddis Fly Larvae (Trichoptera)								
88	Family Hydropsychidae (net spinning caddis)	6						
89	Family Ecnomidae, Genus Ecnomus (bandit caddis)	6						
90	Family Hydrobiosidae (hunter caddis)	8						
90	Families Philopotamidae / Polycentropodidae and Ecnomidae, Genus Ecnomus	2						
91	Family Hydroptilidae (micro caddis)	4						
92	Family Atriplectididae, Genus Atriplectides (vulture caddis)	7						
92	Family Glossosomatidae, Genus Agapetus (igloo caddis)	9						
93	Family Helicopsychidae, Genus Helicopsyche (snail caddis)	8						
93	Family Tasimiidae (tasimiids)	8						
94	Families Philorheithridae and Odontoceridae (attack caddis)	8						
95	Family Calamoceratidae, Genus Anisocentropus (veranda caddis, sleepi)	7						
96	Family Calocidae, Species Caenota plicata (shingle caddis)	9						
96	Family Leptoceridae, Species Lectrides varians (flat shack caddis)	4						
97	Families Conoesucidae/ Calocidae/ Helicophidae (bullet caddis)	8						
98	Family Leptoceridae, Genus Triplectides (stick caddis)	3						
98	Family Leptoceridae, Genus Oecetis (log cabin caddis)	10						
99	Family Leptoceridae, Genus Symphitoneuria (dart caddis)	5						
99	Family Leptoceridae, Genus Notalina (Headbanger caddis)	6						
99	Family Leptoceridae ...unidentified, various genera.	6						