

**Biodiversity associated with restored small-scale mussel habitats has restoration decision implications**

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**Online Resource 2**

**Online Resource 2.1:** Table of the total of all identified infauna on the restored and control plots.

Group	Infauna taxa	Restored Plots	Control Plots
Anthozoa	Unidentified Anemone	0	3
Ascidacea	<i>Cnemidocarpa bicornuta</i>	0	3
Ascidacea	<i>Molgula amokurae</i>	0	2
Ascidacea	<i>Cnemidocarpa nisiotis</i>	0	1
Asteroidea	<i>Patiriella regulatis</i>	3	2
Bivalvia	<i>Neilo australis</i>	1	0
Bivalvia	<i>Theora indet.</i>	81	68
Bivalvia	<i>Scintillona zelandica</i>	12	27
Bivalvia	<i>Tawera spissa</i>	4	60
Bivalvia	<i>Corbula zelandica</i>	12	48
Bivalvia	<i>Leptomya retiaria retiaria</i>	14	67
Bivalvia	<i>Linucula hartvigiana</i>	33	93
Bivalvia	<i>Gari indet.</i>	0	21
Bivalvia	<i>Purpurocardia purpurata</i>	0	12
Bivalvia	<i>Limaria orientalis</i>	0	3
Bivalvia	<i>Arthritica indet.</i>	1	3
Bivalvia	<i>Diplodonta indet.</i>	0	24
Bivalvia	<i>Musculus impactus</i>	0	1
Bivalvia	<i>Ennucula strangei</i>	1	0
Bivalvia	Unidentified bivalve	6	5
Bivalvia	<i>Venerupis largillierti</i>	0	10
Bivalvia	Ungalinidae (family)	0	12
Bivalvia	<i>Melliteryx parva</i>	1	0
Bivalvia	<i>Pseudacapagia disculus</i>	1	0
Bivalvia	<i>Ruditepes largillierti</i>	0	3
Bivalvia	<i>Borniola reniformis</i>	0	3
Chiridota	<i>Chiridota nigra</i>	1	16
Leptocardii	Unidentified Lancelet	0	1
Crustacea	Unidentified Amphipod	67	262
Crustacea	Unidentified Cumacea	21	27
Crustacea	<i>Peridimenes indet.</i>	1	1
Crustacea	Unidentified Tanaid	1	71
Crustacea	Unidentified Ostracod	0	27
Gastropoda	<i>Sigapatella indet.</i>	1	2
Gastropoda	<i>Neoguraleus sinclairi</i>	0	1
Gastropoda	<i>Coelotrochus tiaratus</i>	0	2
Gastropoda	<i>Turritellidae (family)</i>	2	11
Gastropoda	<i>Buccinulum linea</i>	0	2
Gastropoda	<i>Turbonilla zelandica</i>	0	7
Gastropoda	<i>Turbonilla indet.</i>	0	1
Gastropoda	<i>Turbo smmargadus</i>	1	0
Gastropoda	<i>Eatoniella indet.</i>	1	3
Gastropoda	<i>Maoricolpus roseus</i>	2	4
Gastropoda	Unidentified limpet	1	0
Holothuroidea	<i>Scoliorhapis indet.</i>	1	5
Holothuroidea	<i>Australostichopus mollis</i>	1	0

Holothuroidea	<i>Taeniogyrus dendyi</i>	0	2
Holothuroidea	Holothuroidea	4	42
Isopoda	Unidentified Isopod	2	8
Leptostraca	Unidentified Leptostraca	9	10
Malacostraca	<i>Pagurus indet.</i>	5	32
Malacostraca	Unidentified Mysidacea	2	5
Malacostraca	<i>Halicarcinus indet.</i>	12	24
Malacostraca	<i>Hemiplax hertipes</i>	9	3
Malacostraca	<i>Nepinnotheres novaezelandiae</i>	0	1
Malacostraca	Unidentified Malacostraca	0	6
Malacostraca	<i>Upogebia hirtifrons</i>	0	8
Nemertea	Nemertea	1	25
Nemotoda	Nemotoda	0	18
Oligochaeta	Oligochaeta	3	96
Ophiuroidea	Amphiuridae (family)	2	61
Ophiuroidea	<i>Ophopteris indet.</i>	1	0
Polychaeta	Capitellidae	255	459
Polychaeta	Spionidae	277	291
Polychaeta	Lumbrineridae	34	337
Polychaeta	Dorvilleidae	23	26
Polychaeta	Oweniidae	0	2
Polychaeta	Goniadidae	2	75
Polychaeta	Hesionidae	1	25
Polychaeta	Nereidae	1	2
Polychaeta	Polynoidae	0	9
Polychaeta	Sigalionidae	0	2
Polychaeta	Syllidae	19	165
Polychaeta	Glyceridae	11	76
Polychaeta	Phyllodocidae	5	4
Polychaeta	Sabellidae	1	17
Polychaeta	Cossuridae	0	3
Polychaeta	Maldanidae	3	141
Polychaeta	Opheliidae	57	102
Polychaeta	Orbiniidae	0	13
Polychaeta	Paraonidae	23	109
Polychaeta	Chaetopteridae	0	15
Polychaeta	Cirratulidae	8	27
Polychaeta	Ampharetidae	0	3
Polychaeta	Flabelligeridae	1	2
Polychaeta	Pectinariidae	2	1
Polychaeta	Terebellidae	5	22
Polyplacophora	Unidentified Chiton	1	59
Polyplacophora	<i>Cryptococcus porosus</i>	0	1
Sipuncula	Sipunculidae (family)	1	11

**Online Resource 2.2:** Table of the total of all identified epifauna on the restored and control plots.

<b>Epifauna taxa</b>	<b>Mussel Plots</b>	<b>Control Plots</b>
Macroalgae	296	158
Ascidian	1	218
Cats eye snail	239	44
Chiton	0	1
Cushion sea star	204	120
Eleven-armed sea star	190	8
Fan Worm	0	3
Horse Mussel	0	8
Limpet	3	2
Orange sponge	1	0
Sea Cucumber	24	1
Sea urchin	2	1
Whelk	2	0

**Online Resource 2.3:** Table of the total of all identified pelagic fauna on the restored and control plots.

<b>Pelagic taxa</b>	<b>Mussel Plots</b>	<b>Control Plots</b>
Blue Cod	27	8
Eagle Ray	3	13
Garfish	35	0
Goatfish	0	6
Jack Mackerel	123	295
Kahawai	36	519
Leather Jacket	0	1
Opalfish	1	6
Dogfish	1	0
Short Tail Stingray	2	11
Snapper	6	32
Spotty	3970	5266
Stargazer	1	0
Triplefin	782	13