

### Schedule 3: Cross boundary areas

#### 3.1 Marine Mammal and Bird sites above mean high water springs

The identification of sites important for marine mammals and birds above the line of mean high water springs provides a mechanism for recognising the existence of values adjacent to the coastal marine area which need to be taken into account when considering applications for activities that might adversely affect those values.

Area	Values above mean high water springs
MMB 1 Oamaru	Breeding area for little blue penguin and sooty shearwater, and is a roosting area for spotted shag. NZMS 260 J41: 508663 to 504650.
MMB 2 Cape Wanbrow	Habitat for Stewart Island shag, sooty shearwater, little blue penguin, and spotted shag. Visited by reef heron, Fiordland crested penguin and Caspian tern. Haul out site for New Zealand fur seal. NZMS 260 J41: 511645 to 505626
MMB 3 Kakanui Beach	Breeding area for yellow-eyed penguin, seasonal visits by royal spoonbill and white heron. NZMS 260 J42: 465592 to 456580.
MMB 4 Lookout Bluff	Breeding area for yellow-eyed penguin. Haul out site for New Zealand fur seal. NZMS 260 J42: 421475 to 417458
MMB 5 Moeraki Peninsula	Breeding area for yellow-eyed penguin, little blue penguin, Stewart Island shag, little shag, spotted shag, royal spoonbill. Visited by crested penguin, rockhopper, erect crested and Fiordland crested penguin. Breeding area for New Zealand fur seal and a haul out site for Hooker's sea-lion, elephant seal, and leopard seal. NZMS 260 J42: 420369 to 421330
MMB 6 Katiki Beach	Breeding area for yellow-eyed penguin. NZMS 260 J43: 389282 to 386267
MMB 7 Shag Point	Habitat for sooty shearwater, spotted shag, Stewart Island shag, yellow-eyed penguin, reef heron. Haul out site for Hooker's sea-lion and New Zealand fur seal. NZMS 260 J43: 387254 to 396231
MMB 8 Bobbys Head	Breeding area for yellow-eyed penguin, sooty shearwater, spotted shag and little blue penguin. Haul out site for New Zealand fur seal. NZMS 260 J43: 357180 to 349173
MMB 9 Potato Point & Long Beach	Breeding area for little blue penguin. NZMS 260 IJ44: 261939 to 278915
MMB 10 Otago Peninsula	Taiaroa Head is a breeding area for yellow-eyed penguin, little blue penguin, sooty shearwater, banded dotterel, Caspian tern, little shag and spotted shag. Only mainland breeding colony of northern royal albatross and Stewart Island shag. Taiaroa Head is also a breeding area for New Zealand fur seal and is a haul out site for Hooker's sea-lion, leopard seal, and elephant seal. The rest of Otago Peninsula is a breeding area for yellow-eyed penguin. NZMS 260 IJ44: 332897 to 231755
MMB 11 Forbury Hill Cliffs	Only known mainland breeding area for fairy prion. NZMS 260 IJ44: 140735 to 133733.
MMB 12 Green Island	Breeding area for 11 marine bird species including yellow-eyed penguin and little blue penguin, and one of three Otago coastal breeding sites for fairy prion. Haul out site for New Zealand fur seal.
MMB 13 Taieri Island/Moturata	Breeding area for sooty shearwater and an important breeding area for little blue penguin. Taieri Island/Moturata is a scenic reserve.
MMB 14 Quoin Point	Breeding area for New Zealand fur seal. NZMS 260 I45: 914469 to 907462

Area		Values above mean high water springs
MMB 15	Nugget Point	Haul out site for New Zealand fur seal, elephant seal, Hooker's sea-lion. Visited by leopard seal. Breeding area for yellow-eyed penguin, little blue penguin, Australasian gannet and Stewart Island shag. Visited by erect-crested penguin, Fiordland crested penguin, Snares crested penguin, and rockhopper penguin, reef heron and variable oyster catcher. NZMS 260 H46: 637142 to 622106
MMB 16	Cannibal Bay to Surat Bay	Haul out site for Hooker's sea-lion. NZMS 260 H46 & H47: 621105 to 578092
MMB 17	Hayward Point & Jacks Bay	Breeding area for yellow-eyed penguin. NZMS 260 H47: 580085 to 574068
MMB 18	Tuhawaiki Island	Haul out site for New Zealand fur seal. Breeding area for sooty shearwater and little blue penguin.
MMB 19	Penguin Bay	Breeding area for yellow-eyed penguin and sooty shearwater. Haul out site for New Zealand fur seal. NZMS 260 H47: 571062 to 565048
MMB 20	Duff Islands to Castle Rock	Haul out site for New Zealand fur seal. NZMS 260 H47: 558043 to 546038
MMB 21	Hinahina Cove	Breeding area for yellow-eyed penguin. Haul out site for New Zealand fur seal. NZMS 260 H47: 539037 to 576031
MMB 22	Purakanui Bay to Cosgrove Island	Haul out site for Hooker's sea-lion and breeding area for New Zealand fur seal. Breeding area for yellow-eyed penguin, little blue penguin and sooty shearwater. Cosgrove Island is a predator-free breeding area for little blue penguin, sooty shearwater and fairy prion. NZMS 260 H47 & G47: 519023 to 499000
MMB 23	Long Point & Chasm Island	Breeding area for yellow-eyed penguin. Haul out site for New Zealand fur seal. NZMS 260 G47: 488992 to 471994
MMB 24	Skeleton Point & Rainbow Isles	Breeding area for yellow-eyed penguin and titi. Haul out site for New Zealand fur seal. NZMS 260 G47: 398987 to 387975
MMB 25	Waipati Beach	Haul out site for Hooker's sea-lion. NZMS 260 G47: 324939 to 306923
MMB 26	Chaslands Mistake	Haul out site for New Zealand fur seal. NZMS 260 G47: 312905 to 288908
MMB 27	Wallace Head	Haul out site for New Zealand fur seal. NZMS 260 G47: 279915 to 268916

### 3.2 Outstanding Natural Features and Landscapes above mean high water springs

The identification of areas of outstanding natural features and landscapes above the line of mean high water springs, provides a mechanism for recognising the existence of values adjacent to the coastal marine area which need to be taken into account when considering applications for activities that might adversely affect those values.

Area	Values above mean high water springs
ONFL 1 Cape Wanbrow	Kai Tahu cultural and spiritual values. Significant headland with internationally significant volcanic deposits with exposures of pillow lavas and breccias, surge deposits and volcanoclastic sediments. There is remnant coastal forest. NZMS 260 J41: 511644 to 505626
ONFL 2 Bridge Point	Nationally important location of runangan molluscan fauna, and microfossils. There are excellent exposures of marine volcanic and volcanoclastic sediments in the sea cliff and wave cut platforms. There is a small colony of the native Cooks scurvy grass ( <i>Lepidium oleraceum</i> ). NZMS 260 J42: 437520
ONFL 3 Moeraki Peninsula	Kai Tahu cultural and spiritual values. Internationally important coastal landform at Tawhiroko Point. Nationally important landform at eastern tip of Moeraki Peninsula. NZMS 260 J42: 420369 to 421330
ONFL 4 Katiki Beach	Significant sandstone cliff and Katiki boulders immediately adjacent to the only part of State Highway 1 that runs along the coast, south of Kaikoura. NZMS 260 J42 & J43: 413324 to 387254
ONFL 5 Shag Point	Kai Tahu cultural and spiritual values. Significant headland and 'Katiki' boulders. Unusual occurrence of alpine plants and insects. NZMS 260 J43: 396249 to 396231
ONFL 6 Cornish Head	Outstanding coastal headland. NZMS 260 J43 & I43: 307079 to 298076
ONFL 7 Karitane Headland	Huriawa Headland has Kai Tahu cultural and spiritual values. Coastal cliffs and blowholes. Nationally important coastal landforms known as a Karitane tombolo. Important source of fossils, which includes a notable dolphin fossil. There are offshore stacks which provide bird habitat. NZMS 260 I43: 282052 to 279046
ONFL 8 Heyward Point	Outstanding headland, sand beaches, and spit at the entrance to Otago Harbour. NZMS 260 I,J44: 291918 to 315893
ONFL 9 Otago Peninsula	Kai Tahu cultural and spiritual values. Significant headlands, particularly Taiaroa Head which also has Kai Tahu cultural and spiritual values. Outstanding scenic qualities due to density of landscape elements. Visually impressive landforms including "Lovers Leap" and "The Chasm". Regionally significant earthflow at Sandfly Bay. NZMS 260 I,J44: 331899 to 231755
ONFL 10 Cargill Castle to Black Head	Significant headland with notable geology, particularly the sandstone cliffs and the columnar basalt cliffs at Black Head (Makeratu), which have cultural and spiritual values for Kai Tahu. NZMS 260 I,J44: 149737 to 103723
ONFL 11 Chrystalls Beach	Kai Tahu cultural and spiritual values. The foredunes have small communities of the rare pingao, a shore bindweed and other plants and associated entomological values. Cooks Head Rock is a good example of a volcanic plug. NZMS 260 H45: 884437 to 841407
ONFL 12 Nugget Point	Kai Tahu cultural and spiritual values. Outstanding scenic value of coastline. Significant headland. NZMS 260 H46: 636143 to 621105
ONFL 13 Cannibal Bay to Surat Bay	Kai Tahu cultural and spiritual values. False Islet stacks, well defined landforms of scientific value. There are rare native plants such as pingao, and rare entomological values. NZMS 260 H46 & H47: 615105 to 580093

Area	Values above mean high water springs
ONFL 14 Penguin Bay to Wallace Beach	Kai Tahu cultural and spiritual values. Tuhawaiki Island is a scenic reserve. Features include, Jacks blow hole, Cathedral caves and Rainbow Isles spouting sea cave. Unmodified podocarp/hardwood forests reach the coastline, e.g., Hinahina Cove Scenic Reserve and Waipati Beach Scenic Reserve. Large patches of the rare pingao grow on the foredunes. Outstanding scenic and landscape values as an unmodified environment. Significant headlands. NZMS 260 H47 & G47: 571062 to 248918
ONFL 15 All islands within Otago's coastal marine area.	Kai Tahu cultural and spiritual values. Significant part of the coastal landscape. The islands and off-shore stacks provide important habitat and nesting sites for birds, haul-out areas for seals, and may have botanical values.

### 3.3 Coastal Hazard Areas

Area	Type of coastal hazard
CHA 1 Waitaki River - Oamaru	Mixed sand and gravel beach erosion (property at risk)
CHA 2 Waikouaiti - Karitane	Sandy beach erosion (beach and roads at risk)
CHA 3 Puketeraki - Warrington	Unstable land being eroded by coastal processes
CHA 4 Warrington Spit/Doctor's Pt	Sandy beach erosion (Blueskin Bay and property at risk)
CHA 5 The Spit	Sandy beach erosion (spit and saltmarsh at risk)
CHA 6 Te Rauone Beach	Sandy beach erosion (beach, road, and property at risk)
CHA 7 Victory Beach	Sandy beach erosion (beach and estuary at risk)
CHA 8 Allans Beach	Sandy beach erosion (beach and estuary at risk)
CHA 9 Tomahawk - St Clair	Sandy beach erosion (property and road at risk)
CHA 10 Black Head	Unstable land being undercut by coastal processes
CHA 11 Ocean View	Sandy beach erosion (beach and road at risk)
CHA 12 Brighton - Taieri Mouth	Sandy beach erosion (road at risk)
CHA 13 Toko Mouth	Sandy beach erosion (property at risk)
CHA 14 Kaka Point - Tirohanga	Sandy beach erosion (road at risk)
CHA 15 Newhaven	Sandy beach erosion (property at risk)