

Introduction to Areas of Significant Biodiversity Value {Was Areas of Significant Conservation Value - NatEnv 958.60}

The extent of indigenous vegetation and habitat in Dunedin is now a fraction of what it was prior to the arrival of humans. While the wholesale removal of vegetation cover has largely ceased, incremental loss still threatens the longterm viability of indigenous vegetation and habitats. Under section 6(c) of the Resource Management Act (1991) local authorities are obliged to protect areas of significant indigenous vegetation and significant habitats of indigenous fauna. In Dunedin these areas are listed in a schedule as Scheduled **{NatEnv cl.16}** Areas of Significant Conservation Biodiversity Value (ASCV ASBV **{NatEnv 958.60}**) in the district plan. Because ASCVs ASBVs **{NatEnv 958.60}** are only listed in the district plan with the consent of land owners Council also recognises other forms of protection, including QEII covenants.

ASCV's ASBVs **{NatEnv 958.60}** extend through most of Dunedin's diverse landscapes and ecosystems from the sea shore and off shore islands, Otago Peninsula, estuaries, inlets and lagoons, wetlands, forests, uplands and the Strath Taieri and its surrounds. There is a diversity of indigenous flora and fauna within these landscapes, some of which are endemic to Dunedin and are rare and/or subject to threats.

Landowners who have a site they wish to be listed as an ASCV ASBV **{NatEnv 958.60}** require an ecological assessment to be undertaken which considers the ecological characteristics of the area against the criteria for significance.

The criteria for identification of ASCVs ASBVs **{NatEnv 958.60}** have been reviewed in accordance with national best practice and are outlined below:

Protected Areas

- a. Existing protected areas: habitat or indigenous vegetation that has been specially set aside by statute or covenant for protection and preservation of indigenous biodiversity.

Recognised Sites Areas {NatEnv cl.16}

- b. Sites Areas **{NatEnv cl.16}** within the Dunedin City boundaries that are listed in an operative Otago Regional Council Regional Plan as having significant indigenous biodiversity value.

Rarity

- c. Rare species: the site area **{NatEnv cl.16}** provides habitat for indigenous species that are nationally Threatened ~~threatened~~, or At-Risk ~~at risk~~ **{NatEnv cl.16}**, or uncommon, nationally or **{NatEnv 1088.14}** within an ecological district or region **{NatEnv 1088.14}**, including those listed in Appendix 10A.1 and 10A.2 **{NatEnv 900.155}**. For mobile fauna and categories of At-Risk ~~at risk~~ other than 'Declining declining', the site area **{NatEnv cl.16}** must provide important habitat for the species, such as ~~a site~~ an area **{NatEnv cl.16}** supporting large numbers of individuals, or providing refuge from predation, or key habitat for migration, feeding, breeding, or resting.
- d. ~~Rare ecosystems and vegetation/habitats:~~ the site area **{NatEnv cl.16}** contains indigenous vegetation and/or fauna habitat types that are ~~rare or uncommon within the relevant ecological district, or indigenous vegetation/habitat in an historically~~ in an originally **{NatEnv 949.22 and 958.8}** rare ecosystem.
- e. ~~Acutely and Chronically Threatened land environments:~~ the site contains at least 0.5 ha of indigenous vegetation on ~~Acutely Threatened level IV land environments (with less than 10% of their original vegetation cover remaining) or at least 1 ha of indigenous vegetation on Chronically Threatened level IV land environments that have less than 20% of their original vegetation cover remaining.~~ Rare vegetation and habitat types: the area contains indigenous vegetation or habitat of indigenous fauna that has been reduced to less than 20% of its former extent nationally, regionally or within a relevant land environment, ecological district, or

freshwater environment including wetlands. {NatEnv 949.22 and 958.8}

Distinctiveness

- f. Distinctiveness: Indigenous vegetation or an association of indigenous species that is distinctive, of restricted occurrence, contains a species distribution limit, or has developed as a result of an unusual environmental factor or combination of factors: The area supports or provides habitat for: {NatEnv 949.22 and 958.8}
- indigenous species at their distributional limit within Dunedin or nationally: {NatEnv 949.22 and 958.8}
 - indigenous species that are endemic to the Otago region; or {NatEnv 949.22 and 958.8}
 - indigenous vegetation or an association of indigenous species that is distinctive, of restricted occurrence, or has developed as a result of an unusual environmental factor or combinations of factors. {NatEnv 949.22 and 958.8}

Representativeness

- g. Representativeness: Indigenous vegetation or indigenous fauna assemblages that are representative, Areas that are examples of an indigenous vegetation type or habitat that is typical or characteristic (as determined by their structure and/or composition) of the natural diversity of the relevant ecological district. This can include degraded examples where they are some of the best remaining examples of their type, or represent all that remains of indigenous biodiversity in particular environments indigenous vegetation and habitats of indigenous fauna in some areas. {NatEnv 949.22 and 958.8}.

Ecological Context

- h. Ecological context: The site area: {NatEnv cl.16} provides an important buffering function, an important connection to another site or population, or provides important habitat for indigenous fauna with respect to cover, shelter, food, resting, nesting, or refuge from predation or disturbance: {NatEnv 949.22 and 958.8}
- has important connectivity value allowing dispersal of indigenous vegetation and fauna between different areas: {NatEnv 949.22 and 958.8}
 - performs an important buffering function that helps to protect the values of an adjacent area or feature: or {NatEnv 949.22 and 958.8}
 - is important for indigenous fauna, on a regular or temporary basis, for breeding, refuge, feeding or resting. {NatEnv 949.22 and 958.8}

Diversity and Pattern {NatEnv 949.22 and 958.8}

- i. Diversity: and pattern; the site contains The area supports a high diversity of indigenous ecosystem types, indigenous taxa or has changes in species composition reflecting the existence of diverse natural features or gradients. {NatEnv 949.22 and 958.8}
- A relatively high number of species of indigenous plant and/or fauna species for the type of vegetation or habitat, or {NatEnv 949.22 and 958.8}
 - A relatively high number of vegetation and /or habitat types, or {NatEnv 949.22 and 958.8}
 - A relatively intact ecological sequence involving at least three vegetation and/or habitat types. {NatEnv 949.22 and 958.8}

Size

- j. Size: the site area {NatEnv cl.16} is a large example of a type of vegetation, habitat, or ecosystem, or supports a large population of indigenous fauna, within the relevant ecological district.

The schedule below provides a summary of the location, description and ecological values of the ASCV's ASBVs **{NatEnv 958.60}** that are identified and protected in the Plan.

Schedule

Note: Amendments to the Schedules below are not marked up as they are in other sections of the plan as they are drawn from a different source. Any changes to Schedules are detailed in the Decision Report for the relevant section.

Site Number	Name (Location)	Area (ha)	Description and values	Other protection status
C001	Rock and Pillar Scenic Reserve	7453.9200	High altitude subalpine/alpine herbfields with four species unique to the Rock and Pillar Range. Includes a bog wetland area- cushion bog of Regional Significance.	DOC (H43 008); Wetland - WERI Database (Regional Significance)
C002	Salt Lake Scenic Reserve and Wetland Management Area	147.4600	Rocky tor landscape with lowland tussock grassland and a salt lake. The association of the salt lake and tussock grassland and rock face flora (including succulent herb swamp, rush and sedge swamp) is a unique feature in the District. Regional/Local Significance	DOC (H43 017); Wetland - WERI Database; (Regional/ Local Significance)
C003	Mt McKay Covenant	1.6400	Small area of rocky tors with undisturbed native grasses which is a habitat for giant skink and Otago skink.	DOC (H43 022)
C004	Black Rock	51.7300	Lowland snow tussock area (now rare within the Waipori Ecological District). Scientifically important as an opportunity to monitor changes occurring in tussock grassland	DOC (H44 007)
C005	Mill Creek	1,136.4500	Deep sided valley that flows into the Waipori Valley. Area contiguous with Waipori Falls and the Maungatua Range Scenic Reserve. Largest remnant of silver beech forest in eastern Otago north of the Catlins.	DOC (H44 076, H44 077, H44 086)
C008	Maungatua Summit Wetland Management Area and Maungatua Scenic Reserve	1440.4500	Rolling tussock and boggy tops descending to deeply dissected gullies with beech forest remnants. Tarn restiag bog and tussockland cushion bog. Typical alpine wetland cushionfield, shrubland and grassland at low altitude of National Significance. Forested slopes on the eastern side of the Maungatua Range at the end of Grainger Road which contains regenerating native forest and remnant silver beech forest.	DOC (H44 088); DOC (H44 087); Wetland - WERI Database; (National Significance)
C010	Stoney Hill Run Covenant	26.5900	Small gully system on moderate to steep slopes which contains remnant kanuka-manuka/broadleaf and tussock grasslands and fernlands.	DOC (I43 024)
C011	Garden Bush	30.8400	Broadleaf forest on steep valley side which are the remnant representative of Waikouaiti Ecological District	DOC (I43 027)

Site Number	Name (Location)	Area (ha)	Description and values	Other protection status
C012	Hawksbury Quarry Reserve	3.9500	Eastern slopes of Mt Baldie which contain lowland coastal forest remnant including ngaio, kowhai, broadleaf, fuchsia.	DOC (I43 028)
C014	Waikouaiti River Estuary Wetland and Ellison Saltmarsh and Merton Arm Wildlife Management Reserve	96.3500	River margins adjacent to important river habitats. These riparian areas are important in maintaining the quality of the adjoining significant water habitat for whitebait and other species.	DOC (I43 032); DOC (I43 034); DOC (I43 035); DOC (I43 037)
C017	Seacliff Bush Covenant	14.7300	Coastal light bush remnant which include fuchsia dominant, kowhai, mahoe.	DOC (I43 044)
C018	Seacliff Wetlands Covenant	0.6100	Small wetland adjacent to Scenic Reserve which has habitat values for birds and aquatic species.	DOC (I43 045)
C019	Seacliff Scenic Reserve	22.5800	Coastal light bush remnant of fuchsia dominant, kowhai and mahoe.	DOC (I43 046)
C020	Seacliff Scenic Reserve	32.2400	Remnant coastal bush and bushclad hillside - kowhai dominant, matai, kahikatea, broadleaf, totara.	DOC (I43 051)
C021	Hawksbury Lagoon and Hawksbury Lagoon Wildlife Refuge	54.0100	Two lagoons fed by channel. Causeways dissect lagoons. Natural values include wetland habitat values for native bird and fish species.	DOC (I43 069)
C022	Taieri River Gorge	4.9200	Marginal strip along Taieri River adjoining the Taieri Gorge Scenic Reserve. Botanical and fauna values - including long-tailed bat habitat.	DOC (I44 009)
C023	Taieri Gorge	514.9300	Long narrow reserve made up of steep forested slopes adjacent to the Taieri River. Botanical and fauna values - long-tailed bat habitat.	DOC (I44 010)
C024	Taieri Gorge Scenic Reserve	0.5100	Steep forested slopes of Taieri River Gorge. Two uncommon vegetation types. Reported sightings of long tailed bat.	DOC (I44 011)
C025	McKays Triangle Wildlife Management Reserve	40.8400	Wetland area on the Taieri Plain 10 km south west of Mosgiel. Important wildfowl breeding area.	DOC (I44 024)

Site Number	Name (Location)	Area (ha)	Description and values	Other protection status
C026	Allanton Wildlife Management Reserve	6.0500	Oxbow of Taieri River. The quality of the margins of this reserve are important in maintaining the habitat values of the wetland for native wildfowl.	DOC (I44 027)
C027	Allanton Wildlife Management Reserve	13.6100	Oxbow of Taieri River. The quality of the margins of this reserve are important in maintaining the habitat values of the wetland for native wildfowl.	DOC (I44 029)
C028	Allanton Wildlife Management Reserve	0.6300	Oxbow of Taieri River. The quality of the margins of this reserve are important in maintaining the habitat values of the wetland for native wildfowl.	DOC (I44 030)
C029	Hope Hill	26.1100	Area of native vegetation east of Allanton in gully systems. Broadleaf forest, bracken, scrub, kanuka.	DOC (I44 032)
C030	Hope Hill Scenic Reserve	173.9800	Area of native vegetation east of Allanton in gully systems, including broadleaf forest and kanuka.	DOC (I44 033)
C031	Silverpeaks	3421.4400	The Silverpeaks hills west of Dunedin. Contains silver beech forest, snow tussocklands, broadleaf forest, kanuka, cassinia/inaka shrubland and is the habitat for native falcon, fernbirds and a large number of invertebrates.	DOC (I44 039)
C032	Silverpeaks Scenic Reserve	50.5400	Part of Silverpeaks Hills west of Dunedin. Important for native flora and fauna.	DOC (I44 042)
C033	Careys Creek Conservation Area	641.6300	Gully area west of Blueskin Harbour. Contains stands of broadleaf forest and kanuka.	DOC (I44 043)
C034	Orokonui Scenic Reserve	12.8100	Estuarine area feeding into Blueskin Bay. Margins around saltmarsh area important for freshwater and saltwater fish spawning - especially important whitebait spawning area and native invertebrates.	DOC (I44 058)
C035	Reserve for Waiora Yellow Grey Earth	5.3000	Area of land on spur between Boulder Hill and Powder Hill. A site of international importance supporting a rare soil type (Waiora Yellow Grey Earth) and manuka scrub threatened with extinction.	DOC (I44 063)
C036	Chalkies	202.9000	Area of native vegetation on the western side of the Silverstream Valley approximately 10.5 km north west of Dunedin city. This area contains podocarp broadleaf forest merging into snow tussock grasslands.	DOC (I44 065)
C037	Westwood Recreation Reserve	42.8500	Area of sandhills just north of Brighton between the sea and the road. Important site of remnant pingao - uncommon in this area.	DOC (I44 110)

Site Number	Name (Location)	Area (ha)	Description and values	Other protection status
C038	Tunnel Beach	4.1600	Headland projecting from irregular coastline about 30m above sea level. This is one of few remaining areas of salt tolerant herb vegetation. Also important for invertebrates.	DOC (I44 134)
C039	Leith Valley Scenic reserve	6.9000	Small areas of mixed broadleaf forest on very steep south west slope above Leith river. Remnants of native bush - Halls totara, rimu and miro.	DOC (I44 180)
C040	Orokonui Reserve	246.5600	Generally steep northeast aspect covered in regenerating scrub and forest containing a major stream catchment. This area contains an example of succession from pasture to forest. The estuary and stream are important habitat and spawning areas for whitebait and native freshwater fish.	DOC (I44 205)
C041	Orokonui Stream	1.5000	Narrow strip of land beside stream running from forested catchment down to estuary. Marginal protection. Aquatic stream has native freshwater fish species and whitebait spawning.	DOC (I44 206)
C042	Orokonui Walkway	0.1000	Track from carpark, beside estuary and stream, up to native forest. An unusual association of exotic tress and native vegetation. An example of succession from pasture to forest.	DOC (I44 207)
C043	Mihiwaka	7.4700	Sub-alpine vegetation on slopes of Mt Mihiwaka.	DOC (I44 209)
C044	Grahams Bush	20.4500	Moderate to steep southwest slope with deep forested gully and small stream at northern end. Important podocarp kamahi broadleaf remnants.	DOC (I44 211)
C046	Goat Island Scenic Reserve	4.5600	Small scrub covered island in the middle of Otago Harbour between Portobello and Port Chalmers. Remnant native bush representative of former cover occurring on this island and the Otago Peninsula.	DOC (I44 229)
C047	Quarantine (St Martin's) Island Recreation Reserve	15.5700	Reasonable sized island in Otago Harbour between Portobello and Port Chalmers. Remnant and regenerating bush with restorative values. Contains many uncommon plant species.	DOC (I44 230)
C048	Taiaroa Head Nature Reserve	8.2800	Northern most point of Otago Peninsula a predominantly grassed promontory. Wildlife - albatross breeding colony, Stewart Island shags (only mainland sites for both species), spotted shags, sooty shearwater, little blue penguins, black backed and red billed gulls, fur seals.	DOC (I44 238)

Site Number	Name (Location)	Area (ha)	Description and values	Other protection status
C049	Heyward Point Scenic Reserve, Aramoana Beach yellow-eyed penguin habitat	56.8200	Promontory and high steep cliffs running down to open sea. Important coastal native forest remnants and habitat values for bush birds, shags, redbilled and black billed gulls nesting, seals breeding. Habitat for yellow-eyed penguin (<i>Megadyptes antipodes</i>), which have a threat classification of Threatened-Nationally Endangered.	DOC (I44 241); DOC (I44 242); DOC (I44 377)
C051	Papanui Beach/Cape Saunders	9.1000	Steep coastal cliffs exposed to the sea. Habitat - nesting for spotted shags.	DOC (I44 265)
C052	Cicily Beach	2.1000	Coastal strip including low rocky headlands and small sandy beaches. Small breeding area for yellow-eyed penguins. Haulout area for fur seals and sealions. Colonies of pingao still survive.	DOC (I44 267), DOC (I44 268)
C053	Cicily Beach	2.4700	Coastal strip including low rocky headlands and small sandy beaches. Small breeding area for yellow-eyed penguins. Haulout area for fur seals and sealions. Colonies of pingao still survive.	DOC (I44 267); DOC (I44 268)
C054	Allans Beach Recreation Reserve	54.2200	Rocky headland and very small sandy beach. Rough pasture mixed with coastal tussock hebe <i>elliptica</i> . Habitat for yellow eyed and little blue penguins, sealion haul out area. Good stands of coastal tussock.	DOC (I44 269)
C055	Allans Beach Wildlife Reserve and Hoopers Inlet Swamp	38.7200	Salt marsh and marginal vegetation. Important saltmarsh area - wildlife habitat.	DOC (I44 270); ORC wetland
C056	Sandymount Wildlife Refuge	20.5800	Steep hillside of coastal bush and clear areas of tussock and rough pasture. Habitat values for yellow-eyed and little blue penguins, haul out for fur seals with breeding colonies nearby, occasional elephant seal visits. Sooty shearwater may still breed here.	DOC (I44 273)
C057	Sandfly Bay	161.1400	Extensive sand dune area with large open sand below. Coastal Bay covered in lupin and other coastal shrubs. Sand blow rising from beach to ridge. Yellow-eyed and little blue penguin breeding area, fur seal/hooker sealion haulout area, small sooty shearwater breeding area. Remnant pingao plants.	DOC (I44 361)

Site Number	Name (Location)	Area (ha)	Description and values	Other protection status
C058	Boulder Beach WWF Block	39.6100	Coastal cliffs with rank pasture flax and hebe elliptica. Major yellow eyed penguin breeding area, small number of seals.	DOC (I44 275)
C059	Boulder Beach-Highcliff Block	74.6000	Steep coastal cliffs with remnants of coastal vegetation. Major yellow-eyed penguin breeding area. Remnant coastal vegetation and part of a revegetation project for yellow-eyed penguin habitat.	DOC (I44 276)
C060	Burns Park and Burns Park North	88.5300	Most of the remaining bush in the steep easterly aspect overlooking Otago Harbour and containing podocarps. Bush remnants - Halls totara, rimu and miro. Burns Park North - Broadleaved and kanuka forest on hillslopes.	DOC (I44 332) and DCC Natural Reserve
C061	R B Allen Covenant	5.8500	Bush adjoining Burns Park. Contains examples of Halls totara, rimu and miro.	DOC (I44 336)
C062	Sandymount Recreation Reserve	188.1900	Broad headland rising to the summit of Sandymount (319 m). Wildlife habitat - sooty shearwater, little blue penguins, gulls, seal breeding. Patches of pingao, other rare or restricted plants, tussock.	DOC (I44 344)
C063	Collinswood Conservation Covenant	1.3300	A remnant of forest on gentle slopes above Collinswood, includes remnant kowhai and lacebark.	DOC (I44 345)
C064	Taieri Gorge-Blair Acquisition	50.3500	Part of bush-clad Taieri River Valley system. Large stands of kanuka with occasional podocarp present.	DOC (I44 346)
C065	Peggys Hill Conservation Covenant	1.7800	A patch of dense low forest with a large number of plants not found elsewhere on the Otago Peninsula.	DOC (I44 356)
C066	Sullivans Bush	39.5200	Bush remnant including podocarps and native fauna in small catchment above Taieri plains.	DOC (I44 362)
C067	Aramoana Conservation Area and Estuarine Edge	114.0800	Buffer area (pasture) dunes and sand spit. Breeding grounds for insects and feeding grounds for many birds. The salt marsh area above mean high water springs lies adjacent to the second largest representation of dune slacks area in New Zealand. Incorporates Otago Regional Council significant wetland Aramoana Saltmarsh. Estuary - succulent herb swamp, salt rush and reed swamp, estuarine shrub swamp, sandflat. International/National Significance.	DOC (I44 363); Wetland - WERI Database (International/National Significance)

Site Number	Name (Location)	Area (ha)	Description and values	Other protection status
C068	S J McGrouther Covenant	7.0600	Coastal cliff and tops sparse native grasses and pasture. Habitat values - sooty shearwater.	DOC (I44 366)
C069	Part of the Taieri Gorge Scenic Reserve	120.8300	Native bush margins to Scenic Reserve on steep slope.	DOC (I44 367)
C070	Sandymount Conservation Covenant Sandymount Conservation Covenant	1.1500	Remnant native bush including fuchsia and mahoe on Peninsula hill.	DOC (I44 370)
C071	Every's Scientific Reserve	0.8500	Native bush on hillside above Otago Harbour. Habitat for native fauna.	DOC (I44 371)
C072	Tappers Conservation Covenant	0.6400	Small outcrop of tors with native grasses which are a habitat for skinks.	DOC (I44 372)
C073	Part of Taieri River Scenic Reserve	41.1300	Steep sided bush clad gully flowing the Taieri River upstream from Taieri Mouth. Includes Podocarp, silver beech, broadleaf species and kanuka.	DOC (I45 014)
C074	Henley Reserve	25.7800	Forest remnant of podocarp/broadleaf and kanuka on hillside above Taieri River.	DOC (I45 035)
C075	McLarens Gully Covenant	39.2600	Native bush gullies. Area of podocarps including totara and kahikatea.	DOC (I45 036)
C076	Okia Flat Wetland Management Area	238.2000	Low coastal forest, scrub, and wetland on sand flats. Habitat of yellow-eyed penguin.	DCC Natural Reserve; Wetland - WERI Database; Regional Significance
C077	Flagstaff Scenic Reserve and adjacent parks area	100.4500	Natural area of sub alpine tussock grasslands, flaxes, native herbs, and shrubs, with many important insect species.	DCC Natural Reserve
C078	Mt Cargill Scenic Reserve (including Bethunes Gully)	287.9800	Alpine/subalpine area of native herbs, shrubs, and tussock grasslands close to urban centre with important populations of native insects. Broadleaved and kanuka forest on hillslope and gully.	DCC Natural Reserve and DOC (I44 217)
C079	Caversham Bush Reserve	3.4000	Habitat of rare and significant native fauna.	DCC Natural Reserve

Site Number	Name (Location)	Area (ha)	Description and values	Other protection status
C080	Woodhaugh Gardens and Pine Hill	9.2300	Contains remnant totara, matai, and kahikatea - important as a type locality for many native insects. Broadleaved forest, broadleaved/kanuka forest, on steep scarp above river.	DCC Natural Reserve
C081	QEII Trust Covenant	6.8800	Forest remnant and mineral spring.	QEII Trust Covenant
C082	QEII Trust Covenant	13.8400	Forest remnant.	QEII Trust Covenant
C083	QEII Trust Covenant	2.4100	Coastal regenerating hardwood forest and forest revegetation.	QEII Trust Covenant
C084	QEII Trust Covenant	2.1600	Coastal regenerating hardwood forest and forest revegetation.	QEII Trust Covenant
C085	QEII Trust Covenant	15.4900	Coastal broadleaf/podocarp forest and parkland.	QEII Trust Covenant
C086	QEII Trust Covenant	2.0800	Coastal broadleaf/podocarp forest.	QEII Trust Covenant
C087	QEII Trust Covenant	8.9200	Sand dune habitat and coastal forest.	QEII Trust Covenant
C088	QEII Trust Covenant	24.2200	Regenerating beech forest remnant.	QEII Trust Covenant
C089	QEII Trust Covenant	19.9400	Lowland regenerating kanuka/manuka forest remnant.	QEII Trust Covenant
C090	QEII Trust Covenant (part)	20.8000	Forest remnant and wildlife habitat. Grazing of existing pastures.	QEII Trust Covenant
C091	QEII Trust Covenant	2.0600	Podocarp/broadleaf forest.	QEII Trust Covenant
C092	QEII Trust Covenant	1.7300	Forest remnant.	QEII Trust Covenant
C093	QEII Trust Covenant	17.9600	Semi-coastal regenerating podocarp/broadleaf forest remnant.	QEII Trust Covenant
C094	QEII Trust Covenant	5.7700	Lowland regenerating forest remnant.	QEII Trust Covenant
C095	QEII Trust Covenant	2.6700	Forest remnant.	QEII Trust Covenant
C096	QEII Trust Covenant	3.3800	Forest remnant and foreshore.	QEII Trust Covenant
C097	QEII Trust Covenant	82.3000	Semi-coastal regenerating tussock shrub land and broadleaf/podocarp forest remnant.	QEII Trust Covenant

Site Number	Name (Location)	Area (ha)	Description and values	Other protection status
C099	Great Moss Swamp	378.7400	Swamp/Lake - restiad bog and tussockland, rush and sedge swamp. National/Regional Significance.	Wetland - WERI Database (National/Regional Significance)
C100	Edge of Hoopers Inlet	1.1500	Estuary mudflat, salt marsh and reed swamp, succulent herb swamp. National/Local Significance.	Wetland - WERI Database (National/Local Significance)
C102	Papanui Inlet Saltmarsh	6.4200	Estuary - mudflat, succulent herb swamp. National/Local Significance.	Wetland - WERI Database (National/Local Significance)
C103	Swampy Summit Swamp	48.5100	Bog tarn, restiad bog and tussockland. National/Regional Significance.	Wetland - WERI Database (National/Regional Significance)
C104	Edge of Blueskin Bay	7.7000	Estuary - mudflat, salt rush and reed swamp, succulent herb swamp. Regional/Local Significance.	Wetland - WERI Database (Regional/Local Significance)
C106	Edge of Kaikorai Estuary, Estuary and Lagoon	67.1400	Estuary mudflat, salt marsh and reed swamp, succulent herb swamp. Regional Significance.	Wetland - WERI Database (Regional Significance)
C107	Edge of Pleasant River Estuary	1.6100	Estuary succulent herb swamp, mudflat, salt rush and reed swamp. Regional Significance	Wetland - WERI Database (Regional Significance)
C108	Edge of Purakaunui Inlet	1.6900	Estuary - rush and sedge swamp, succulent herb swamp, salt rush and reed swamp, estuarine shrub swamp. Regional/Local Significance.	Wetland - WERI Database (Regional/Local Significance)
C112	Edge of Tomahawk Lagoon	31.6600	Lake - lowland lake, reed swamp. Regional/Local Significance.	Wetland - WERI Database (Regional/Local Significance)
C114	Waipori Boot Wildlife Management Reserve	80.8600	Lagoon - rush and sedge swamp, broadleaved tree swamp, lowland swamp. Regional Significance.	Wetland - WERI Database (Regional Significance)
C116	Pilots Beach Recreation Reserve	3.8100	Provides habitat for a number of species, including little blue penguins, fur seals, hooker sea lions, elephant seals and leopard seals.	DCC Natural Reserve

Site Number	Name (Location)	Area (ha)	Description and values	Other protection status
C117	Otekiho Local Purpose (Wildlife) Reserve	4.4400	Provides habitat for a number of wildlife species, including yellow -eyed penguins, fur seals, hooker sea lions, elephant seals and leopard seals.	DCC Natural Reserve
C118	Green Island/Okaihae	4.0600	Green Island/Okaihae rises to 42 metres above sea level, and is partly covered in coastal scrub and herbaceous vegetation. Provides habitat for a number of wildlife species, including yellow eyed penguins, blue penguins, royal spoonbill, Stewart Island shag, sooty shearwater, fairy prion, and variable oystercatcher. A small number of New Zealand fur seals also haul out on Green Island/Okaihae.	DOC
C119	Ross Creek	3.7300	Broadleaved and kanuka forest in gully. Area includes flood protection works for Water of the Leith and a bolder trap.	DCC Natural Reserve
C120	Rabbit Island Blueskin Bay	52.4100	Dune vegetation. Salt marsh and scrub on estuarine sandflat island.	DCC Natural Reserve
C121	Mount Pleasant Scenic Reserve	15.2500	Broadleaf / podocarp forest remnant	DOC
C123	Harbour Cone Parks land	34.1000	Broadleaved low forest and scrub on rocky summit. Rimu/pokaka forest and kanuka forest on low spur. Broadleaved forest on gully side. Broadleaved low forest on steep upper hillslope.	DCC Natural Reserve
C124	Burns Park extensions (Stevenson Bush)	14.1100	Broadleaved, kanuka and podocarp forest.	DCC Natural Reserve
C125	Frasers Gully	39.9600	Podocarp/broadleaved forest with kanuka forest in lowland gullies.	DCC Natural Reserve
C126	Mt Cargill City Forests area	10.1500	Distinctive and representative cloud forest vegetation with a range of successional stages which will allow continued regeneration of important indigenous tree species.	City Forest
C127	Fortification Stream Headwaters Swamp	25.8400	Swamp 500m above sea level located south west of Wallace Ford Road and Mount Gowie Road intersection in Clarks Junction. Swamps are scarce in Otago with less than 15% remaining. Contains red tussock, Juncus species	ORC Wetland
C128	Adjacent Chingford Park	10.4400	Podocarp/broadleaved and forest on mid hillslope.	DCC Natural Reserve

Site Number	Name (Location)	Area (ha)	Description and values	Other protection status
C129	Pleasant River	14.2700	Estuarine edge of Pleasant River. Includes mudflat, salt marsh, reed and succulent swamp	LINZ
C130	Craigieburn Reserve	6.6000	Podocarp/broadleaved forest, kanuka forest, broadleaved low forest, around broad ridge crest.	DCC Natural Reserve
C131	Fernhill Marsh	0.7000	Marsh located 2km south east of Sutton and 200m above sea level. Scarce with less than 15% of marshes remaining in Otago	ORC Wetland
C132	North branch Waikouaiti River 1	508.4600	Tussock grassland, montane scrub, kanuka scrub and forest, broadleaved forest, podocarp/broadleaved forest on hillslopes and boulderfields occupying entire height of Mt Watkin.	DCC Reserve
C133	Black Rock Marshes	40.5000	Located 1.5km southwest of Black Rock and 16km east of Middlemarch at 480m above sea level. Marshes scarce in Otago with less than 15% remaining. Contains red tussock	ORC wetland
C136	Karetai Ledge	1.1000	Remnant coastal vegetation	DCC Natural Reserve
C137	Prospect Park Reserve (Lachlan)	4.9300	Includes Woodhaugh Gardens, Prospect Park, part Botanic Garden (not including Northern Cemetery), Willowbank and traffic island. Kanuka forest, broadleaved forest, on midslope. Kanuka/broadleaved forest on hillslope.	DCC Natural Reserve
C138	Parks Maori	6.7100	Broadleaf forest on midslope in town belt	DCC Reserve
C139	Lawyers Head	0.4000	Two nationally threatened plants present and significant habitat for sea birds	DCC Natural Reserve
C140	Cliff waterfall catchment above Tunnel Beach	2.8100	Remnant cliff top coastal vegetation	DCC Reserve
C141	Sanda Road and Cockerill Park, Brockville	6.5200	Broadleaf forest on midslope in town belt	DCC Natural Reserve
C142	Henley Swamp	9.1800	Significant swamp located south of Henley. Important habitat for waterfowl. Scarce with less than 15% of swamps remaining in Otago.	ORC Wetland
C143	Parks Wallace	7.9000	Lowland broadleaf forest dominated by mahoe, tree fuchsia, tarata and surrounded by residential suburbs	DCC Reserve

Site Number	Name (Location)	Area (ha)	Description and values	Other protection status
C144	City Forests Whare Flat Silverstream and Flagstaff Forest	176.8400	Extensive area of representative dry land forest vegetation within City Forests plantation. Supports a high diversity of indigenous habitats and species some of which are nationally or locally uncommon	City Forest
C145	Glyn Wye Wetland Management Area	43.3200	Medium turf ephemeral tarns on broad ridge crest (380-440m above sea level), east of Middlemarch. Habitat for threatened herbaceous species and high diversity of indigenous rushes, herbs and other species.	ORC Wetland
C146	Jennings Creek Marsh	2.6400	Coastal marsh 2km northwest of Aramoana. Scarce in Otago less than 15% of marshes remain in Otago	ORC Wetland
C147	Lamb Hill Fen Complex	37.5200	Area of copper tussock wetland / swamp on gully floors (640m-740m above sea level) in the southern part of Macraes Ecological District. Copper tussock, toetoe, purei and common rush make up the canopy and various mosses, liverworts, rushes and herbs make up the ground layer. Scarce in Otago with less than 15% of swamps remaining.	ORC Wetland
C148	Lower Otokia Creek Marsh	3.0300	Northwest of the intersection of McIntosh Road and Sea View Road, Brighton. Scarce with less than 15% of marshes remaining in Otago. Habitat of waterfowl including Black Stilt.	ORC Wetland
C149	McGregor Swamp	2.9400	Located west of the intersection of Beach Street and Stewart Street, Waikouaiti. Swamps are scarce in Otago with less than 15% remaining. Spawning grounds for whitebait/inanga.	ORC Wetland
C150	McLachlan Road Marsh	10.2100	Located southeast of the intersection of Round Hill Road and McLachlan Road, Karitane. Scarce because less than 15% of marshes remain in Otago. Spawning grounds for whitebait/inanga.	ORC Wetland
C151	Murrays Road Inland Saline Wetland Management Area	1.4800	A salt pan (180m-200m above sea level) on the Tor Plateau which flows into a small wetland. Located south of the intersection of Longford Road and Murrays Road, Middlemarch. Scarce wetland type and only known salt pan within the Macraes Ecological District. Less than 18% of inland saline areas remain in Otago. Salt pan contains native salt tolerant plants and wet area natives sedges and rushes.	ORC Wetland

Site Number	Name (Location)	Area (ha)	Description and values	Other protection status
C152	Office Creek Seepage	2.7900	Seepage area (500m-600m above sea level) surrounded by forestry, located 8km northwest of the intersection of Maungatua Road and Waipori Falls Road. Habitat for nationally and internationally rare or threatened species or communities, which includes eldon's galaxias.	ORC Wetland
C153	Old Dunstan Road Swamp	5.7400	Swamp 520m-560m above sea level located 6.5 km northwest of the intersection of Old Dunstan Road and Rocklands Road, Clarks Junction. Scarce with less than 15% of swamps remaining in Otago.	ORC Wetland
C154	Otokia Swamp	8.3700	Rush and sedge swamp adjacent to SH1 near Henley. Water levels fluctuate throughout the year. Scarce with less than 15% of swamps remaining in Otago. Regionally significant breeding area for waterfowl including NZ Shoveller, Pukeko, Pied Stilt and Spur-winged Plover	ORC Wetland
C155	Peat Moss Hills Fen Complex	35.2300	Fen and seepage area (620-680m above sea level) located 8km southwest of the intersection of Ramrock Road and Townsend Road, Middelmarsh. Has as a high degree of naturalness.	ORC Wetland
C156	Reefs Pond Margins	0.4900	Swamp (320m-340m above sea level) located 4km southeast of the intersection of Reefs Road and Barewood Road, Clarks Junction. Scarce less than 15% of swamps remain in Otago.	ORC Wetland
C157	Takitaoa Swamp	65.5500	Large flat valley floor wetland located 2.3km southwest of the intersection of Takitakitoa Road and Otokia-Kuri Bush Road East, Henley. Habitat for nationally or internationally rare or threatened species or communities, including South Island Fern Bird. Also habitat for inanga and potential habitat for kokopu. Scarce with less than 15% of swamps remaining in Otago. Vegetation includes rushlands, shrubs, ribbonwood and tussock in the southern part of the wetland.	ORC Wetland
C158	Te Matai Marsh Complex	1.0700	Marsh located 1.8km northwest of the intersection of Dick and Weir Road, Portobello. Scarce with less than 15% of marshes remaining in Otago.	ORC Wetland
C160	Whareakeake Marsh	1.7600	Beach wetland forming part of a chain of coastal wetlands located in Purakaunui, north Dunedin. Marshes scarce with less than 15% remaining in Otago. Presence of pukio, ribbonwood, frogs and native bird habitat.	ORC Wetland

Site Number	Name (Location)	Area (ha)	Description and values	Other protection status
C161	Braeside Swamp	2.6400	Located 1.6km northeast of Waipori Falls, Berwick. Less than 15% of swamps remain in Otago.	ORC Wetland
C162	Andersons Pond Margins	2.5900	Swamp located north east of Clarks Junction 360m above sea level. Swamps are scarce with less than 15% remaining in Otago.	ORC Wetland
C163	Alexanders Creek	29.5900	Podocarp/broadleaved forest in gullies. Alexanders Creek supports banded kokopu, longfin eel, koura, and the At Risk amphipod <i>Austrodonta benhami</i> . Birds include kereru, tomtit, brown creeper, rifleman and other common forest birds.	QEII Trust Covenant registered 2-6-2010
C164	Grassy Point	1.7100	Contains significant coastal forest that provides habitat for one nationally at risk and seven locally important plant species and a representative assemblage of indigenous forest birds.	NA

