



## Appendix 5

### Natural Environment and Designations

The following are a list of the natural environment designation within 15km of the county/plan area. Further details regarding these are available from the National Parks and Wildlife Service, Geological Survey of Ireland, EPA and the National Biodiversity Data Centre.

Table 5.1: List of Designated Special Protection Areas within 15kms of the Plan area

Table 5.2: List of Designated Special Areas of Conservation within 15kms of the Plan area

Table 5.3: List of Designated Natural Heritage Areas in the Plan area

Table 5.4: List of Proposed Natural Heritage Areas (pNHA) in the Plan area

Table 5.5: Sites of Geological Interest in the Plan Area

Table 5.6: List of Woodland Designations in the Plan Area

**Table 5.1: List of Designated Special Protection Areas within 15kms of the Plan area**

Designation	Site Name and Code
SPA/pSPA (in situ)	Puffin Island 004003
	Skelligs 004007
	Basket Islands 004008
	Tralee Bay Complex (includes former Lough Gill SPA 004011 and Akeragh, Banna and Barrow Harbour SPA 004079), 004188
	Castlemaine Harbour 004029
	Killarney National Park 004038
	River Shannon and River Fergus Estuaries 004077
	Eirk Bog 004108
	Magharee Islands 004125
	Dingle Peninsula 004153
	Iveragh Peninsula 004154
	Stacks to Mullaghareirk Mountains, West Limerick and Mount Eagle Hills 004161
	Deenish Island and Scariff Island 004175
	Kerry Head 004189
SPA/pSPA (ex situ)	The Bull & The Cow Rocks (Cork) 004066
	The Gearagh (Cork) 004109
	Beara Peninsula (Cork) 004155
	Sheep's Head To Toe Head (Cork) 004156
	Mullaghanish To Musheramore Mountains (Cork) 004162
	Loop Head (Clare) 004119

**Table 5.2: List of Designated Special Areas of Conservation within 15kms of the Plan area**

Designation	Site Name and Code
cSAC (in situ)	Caha Mountains, 000093
	Akeragh, Banna & Barrow Harbour, 000332
	Ballinskelligs Bay & Inny Estuary, 000335
	Castlemaine Harbour, 000343
	Old Domestic Building, Dromore Wood, 000353
	Kilgarvan Ice House, 000364
	Killarney National Park, Macgillycuddy's Reeks & Caragh River, 000365
	Lough Yganavan And Lough Nambrackdarrig, 000370
	Mount Brandon, 000375
	Sheheree (Ardagh) Bog, 000382



Designation	Site Name and Code
	Cloonee And Inchiquin Loughs, Uragh Wood, 001342
	Mucksna Wood, 001371
	Glanmore Bog, 001879
	Maulagowna Bog, 001881
	Mullaghanish Bog, 001890
	Old Domestic Building, Curraglass Wood, 002041
	Tralee Bay And Magharees Peninsula, West To Cloghane, 002070
	Old Domestic Building, Askive Wood, 002098
	Ballyseedy Wood, 002112
	Kenmare River, 002158
	Lower River Shannon, 002165
	Blackwater River (Cork/Waterford), 002170
	Blasket Islands, 002172
	Blackwater River (Kerry), 002173
	Slieve Mish Mountains, 002185
	Drongawn Lough, 002187
	Magharee Islands, 002261
	Valencia Harbour/Portmagee Channel, 002262
	Kerry Head Shoal, 002263
	Glanlough Woods, 002315
	Moanveanlough Bog, 002351
<b>cSAC (ex-situ)</b>	Glengarriff Harbour & Woodland (Cork), 000090
	Sheep's Head (Cork), 000102
	St. Gobnet's Wood (Cork), 000106
	The Gearagh (Cork), 000108
	Cleanderry Wood (Cork), 001043
	Derryclogher (Knockboy) Bog (Cork), 001873
	Farranamanagh Lough (Cork), 002189
	Kilkee Reefs (Clare), 002264
	Tullaheer Lough and Bog (Clare), 002343

**Table 5.3: List of Designated Natural Heritage Areas in the Plan area**

Site Name	SITECODE
Knockatarriv/Knockariddera Bogs NHA	002448
Mount Eagle Bogs NHA	002449
Anna More Bog NHA	000333
Knockroe Bog NHA	000366
Slaheny River Bog NHA	000383
Hungry Hill Bog NHA	001059
Bunnaruddee Bog NHA	001352
Sillahertane Bog NHA	001882
Doughill Bog NHA	001948

**Table 5.4: List of Proposed Natural Heritage Areas (pNHA) in the Plan area**

Site Name *indicates pNHA not otherwise designated.	SITECODE **Site Synopsis available	Overlaps with Natura 2000 designation:
Caha Mountains	000093	SAC 000093
Akeragh, Banna and Barrow Harbour	000332	SAC 000332 and SPA 4188
Ballinskelligs Bay and Inny Estuary	000335	SAC 000335
Castlemaine Harbour	000343	SAC 000343 and SPA4029
Doo Loughs	000350**	SAC 00365



Site Name <b>*indicates pNHA not otherwise designated.</b>	SITECODE <b>**Site Synopsis available</b>	Overlaps with Natura 2000 designation:
Dromlusk Bog	000352	SAC 002173
Old Domestic Building, Dromore Wood	000353	SAC 00353
Kenmare River Islands	000363	SAC 002158
Kilgarvan Ice House	000364	SAC 00364
Killarney National Park, Macgillycuddy's Reeks and Caragh River Catchment	000365	SAC 00365, SPA 004154 & SPA 004038
Lough Yganavan and Lough Nambrackdarrig	000370	SAC 000370
Moanveanlagh Bog NHA	000374	SAC 000374
Mount Brandon004038	000375	SAC 000375
Moylaun Island	000376	SAC 002158
Sheheree (Ardagh) Bog	000382	SAC 000382
Ballylongford Bay	001332	SAC 002165 and SPA004077
Beal Point	001335	SAC 002165 and SPA 004077
Cashen River Estuary	001340	SAC 002165
<b>*Church Hill, Tralee</b>	001341**	-
Cloonee And Inchiquin Loughs, Uragh Wood	001342	SAC 001342
Deenish And Scarriff Islands	001345	SAC 002158 and SPA 004175
Darrynane Bay Islands And Marsh, Lamb's Head	001346	SAC 002158
<b>*Dooneen Wood</b>	001349	-
Doulus Head To Cooncrome Harbour	001350**	SPA 004154
<b>*Glanleam Wood</b>	001353**	-
<b>*Glanmore Lake</b>	001354**	-
Illaunnabarnagh Island	001359	SAC 002261 and SPA 004125
Lehid Harbour	001364**	SAC 002158
<b>*Lough Nagarriva</b>	001369**	-
Mucksna Wood	001371	SAC 002158
Parkmore Point	001372**	SPA 004153
Puffin Sound-Horse Island Cliffs	001373**	SAC 002262 and SPA 004003
Rossdohan Island	001375**	SAC 002158
<b>*Roughy River</b>	001376**	-
Slea Head	001377	SAC 002172 and SPA 004153
Spanish Island	001378	SAC 002158
Sybil Point/Carrigbreen	001379	SPA 004153
Valencia Island Cliffs	001382	SPA 004154
Valencia River Estuary	001383**	SAC 002262
<b>*Ventry Dunes And Marshes</b>	001384**	-
Tarbert Bay	001386	SAC 002165 and SPA 004077
<b>*Kilgarvan Wood</b>	001787**	-
Glanmore Bog	001879	SAC 001879
Maulagowna Bog	001881	SAC 001881
<b>*Ballagh Bog</b>	001886**	-
Mullaghanish Bog	001890	SAC 001890
Little Skellig	001953	SPA 004007
Great Skellig	001954	SPA 004007



<b>Site Name</b> <b>*indicates pNHA not otherwise designated.</b>	<b>SITECODE</b> <b>**Site Synopsis available</b>	<b>Overlaps with Natura 2000 designation:</b>
<b>*Smerwick Harbour Sandhills and Marshes</b>	001958	-
<b>*Burnham Inlet</b>	001960**	-
<b>*Emlagh East Salt Marshes</b>	001961**	-
Muckleghmore Island (Magharees)	001962	SAC 002261 and SPA 004125
Gurrig Island (Magharees)	001963	SAC 002261 and SPA 004125
Illauntannig (Magharees)	001964	SAC 002261 and SPA 004125
Inishtooskert And Illaunimmil (Magharees)	001965	SAC 002261 and SPA 004125
Old Domestic Building, Lettir	002040**	-
Old Domestic Building, Curraglass Wood	002041	SAC 002041
Old Domestic Building, Derreenafoyle	002042	SAC 002173
Tralee Bay And Magharees Peninsula, West To Cloghane	002070	SAC 002070 and SPA 004188
<b>*Roughy River Estuary</b>	002092**	-
Old Domestic Building, Askive Wood	002098	SAC 002098



**Table 5.5: Sites of Geological Interest in the Plan Area**

Site Name	Principal characteristics Critical feature(s) key words	Townland(s)/district	Theme Site No.	IGH Theme - Primary
An Blascaod Mór	Silurian fossils	An Blascaod	IGH2-23	IGH2 Precambrian - Devonian Palaeontology
An Daingean Silurian Coast	Dunquin Group stratigraphy and important fossil localities	Dún Chaoin	IGH4-15	IGH2 Precambrian - Devonian Palaeontology
An Daingean Silurian Coast	Dunquin Group stratigraphy and important fossil localities	An Baile Uachtarach Thiar, Baile an Chalaídh, Cloichear, An Ghráig, Ceathrú an Fheirtéaraigh	IGH2-27	IGH2 Precambrian - Devonian Palaeontology
An Coimín Thuaidh	Silurian fossils	An Coimín Thuaidh	IGH2-26	IGH2 Precambrian - Devonian Palaeontology
Puffin Sound	Devonian fish fossils	An Gleann Iarthach	IGH2-42	IGH2 Precambrian - Devonian Palaeontology
Valentia Tetrapod Trackway	Tetrapod trackway	Dohilla	IGH2-43	IGH2 Precambrian - Devonian Palaeontology
Min Aird Bay – Ceann an Dáimh, Annascaul	Silurian in contact with Dingle Group	An Daingean	IGH4-16	IGH4 Cambrian-Silurian
Carrahane Strand	Waulsortian buildups, with lithistid demosponges	Barrow	IGH3-25	IGH8 Lower Carboniferous
Samphire Island	Waulsortian mudmound	Fenit	IGH3-28	IGH3 Carboniferous - Pliocene Palaeontology
Tooreennasluggaun	hand pump	Killorglin	IGH16	IGH16 Hydrogeology
Caherconree and Derrymore Glen	Silurian fossils	Commons, Curracullenagh, Behernagh, Derrymore	IGH2-25	IGH2 Precambrian - Devonian Palaeontology
Derrymore Island and Tralee Bay	pebble spit		IGH13	IGH13 Coastal Geomorphology
Kerry Head	Palynological and Palaeobotanical assemblages	Ballyheigue	IGH3-26	IGH3 Carboniferous - Pliocene Palaeontology
Barrow	Residual tower karst	Barrow	IGH1-43	IGH1 Karst
Barrow	Tertiary tower karst	Barrow	IGH12	IGH1 Karst
Ballyheigue Shore	Devonian	Ballyheigue	IGH2-36	IGH2 Precambrian - Devonian Palaeontology
Kilfenora	Saprolite		IGH12	IGH12 Mesozoic/ Cenozoic
Ballymacquin, Sluggaire	spring	Ballyheigue	IGH16	IGH16 Hydrogeology
Listry	Exposed breccias		IGH12	IGH12 Mesozoic/ Cenozoic
Molls Gap Quarry	Plants and spore locality	Eirklough	IGH2-41	IGH2 Precambrian - Devonian Palaeontology
Ballybunion	Sulphides		IGH6	IGH8 Lower Carboniferous
Ballybunion	Goniatites and bivalves	Ballybunion	IGH3-24	IGH8 Lower Carboniferous
Tubrid, Kenmare	karst spring	Tubrid Td., Kenmare	IGH1	IGH16 Hydrogeology
Tubrid, Kenmare	karst spring	Tubrid Td., Kenmare	IGH16	IGH16 Hydrogeology
Ballymacelligott Caves System	classic cave system	Carrignafeela (East), Carrignafeela(West), Potaley, Lissooleen, Ballinknock Kilquane, Ballymullen	IGH1-26	IGH1 Karst
Ballydeenlea	Chalk pockets of Cretaceous age	Gweestin Valley	IGH3-29	IGH3 Carboniferous - Pliocene Palaeontology
Ballyhar Outlier	Exposed breccias		IGH12	IGH12 Mesozoic/ Cenozoic
Kilneedan Outlier	Exposed breccias		IGH12	IGH12 Mesozoic/ Cenozoic
Muckross [Cu, Zn, Co]	Cobalt/Bronze Age. Post-mining mineralisation	Killarney	IGH15	IGH6 Mineralogy
Ross Island	Copper mineralisation	Killarney	IGH15	IGH6 Mineralogy
Ross Island	Varied mineralogy	Killarney	IGH6	IGH6 Mineralogy



Site Name	Principal characteristics Critical feature(s) key words	Townland(s)/district	Theme Site No.	IGH Theme - Primary
Muckross	Supergene minerals	Killarney	IGH6	IGH6 Mineralogy
Ballydeenlea	Cretaceous Chalk		IGH12	IGH12 Mesozoic/ Cenozoic
Ballyegan	Undated pipes or collapses	East side of Tralee/ Castleisland	IGH12	IGH12 Mesozoic/ Cenozoic
Crag Cave	>12ka calcite	Crag, Anglore	IGH12	IGH1 Karst
Crag Cave	>12ka calcite	Crag, Anglore	IGH1-30	IGH1 Karst
Tobermaing	karst spring	Castleisland	IGH16	IGH16 Hydrogeology
Ballynahallia Quarry Cave	phreatic maze cave	Ballynahallia	IGH1-39	IGH1 Karst
Carraundulkeen Quarry Spring, Gneevegullia	warm spring	Gneevegullia, Rathmore	IGH16	IGH16 Hydrogeology
Rathmore esker	Esker		IGH7	IGH7 Quaternary
Oyster Hill	Fauna and striped limestone	Fenit	IGH3-27	IGH8 Lower Carboniferous
Oyster Hill	Fauna and striped limestone	Fenit	IGH8	IGH8 Lower Carboniferous
Muckross, Lough Leane	caves with karren	Muckross	IGH1-34	IGH1 Karst
Sceilg Mhichíl	rainwater cistern		IGH16	IGH16 Hydrogeology
Knocknadobair	Stripes		IGH7	IGH7 Quaternary
Beal Point	Carb. Rocks Exposed		IGH9	IGH9 Upper Carboniferous
Carrigacapeen Erratic	Mega erratic		IGH7	IGH7 Quaternary
Glenfesk	Devonian section		IGH10	IGH10 Devonian
Gortnabinna	Devonian section		IGH10	IGH10 Devonian
NW of Killorglin	hand pump	Killorglin	IGH16	IGH16 Hydrogeology
Owencashla Valley	Moraines		IGH7	IGH7 Quaternary
Cordall stream section	youngest Dinantian, trilobites	Castleisland	IGH8	IGH8 Lower Carboniferous
Plover Hill	Carboniferous mound	Tralee/ Fenit	IGH8	IGH8 Lower Carboniferous
Ceann Sléibhe – Dún Chaoin		Numerous Townlands	IGH10	IGH10 Devonian
Dún Beag			IGH10	IGH10 Devonian
Coosgorrib (Ard na Caithne)	Devonian Dingle Group overturned strata	Baile an Fheirtéaraigh	IGH10	IGH10 Devonian
Dún an Óir	Stripes	Baile an Fheirtéaraigh	IGH7	IGH7 Quaternary
Ceann Bhaile Dháith	Devonian	An Chorrghráig, Baile na nGall	IGH10	IGH10 Devonian
Tetrapod trackway to Reenadrolaun Head	Devonian		IGH10	IGH10 Devonian
Oileán na gCánóg go Ceann Bhólais	Devonian fossils		IGH10	IGH10 Devonian
Parkmore Point	Conglomerate	Kilfarnoge	IGH10	IGH10 Devonian
Valentia	Slate mines - slab slate		IGH15	IGH15 Economic Geology
Baile Móir to Ceann Sléibhe	Devonian	Numerous Townlands	IGH10	IGH10 Devonian
Beiginis	Devonian volcanic rocks		IGH10	IGH10 Devonian
Laght Point - Bealta - Doulus Head	Devonian volcanic rocks		IGH10	IGH10 Devonian
Cnoc Bréanainn	Pyramidal peaks		IGH7	IGH7 Quaternary
Cnoc Bréanainn	physical weathering, screes, paternoster lakes		IGH14	IGH14 Fluvial/Lacustrine Geomorphology
Cuas	Devonian		IGH10	IGH10 Devonian
An Trá Bheag – Ceann an Dáimh	Devonian		IGH10	IGH10 Devonian



Site Name	Principal characteristics Critical feature(s) key words	Townland(s)/district	Theme Site No.	IGH Theme - Primary
Loch an Dúin	Corrie		IGH7	IGH7 Quaternary
Loch an Dúin/ Cé Bhréanainn etc.	Devonian		IGH10	IGH10 Devonian
Kilmurry Bay to Min Aird Castle	large sand dunes		IGH10	IGH10 Devonian
Inch - Redcliff	Inch conglomerates	Inch	IGH10	IGH10 Devonian
Inch to Redcliff	mass wasting	Inch	IGH14	IGH10 Devonian
Inch to Redcliff	Landslides.	Inch	IGH7	IGH10 Devonian
Maharees, Tralee Bay (Garrywilliam is best?)	Waulsortian mudbank - 3 dimensional story	Numerous Townlands	IGH8	IGH8 Lower Carboniferous
Whitestrand	Stripes		IGH7	IGH7 Quaternary
Rossbehy	Tundra frost polygons		IGH7	IGH7 Quaternary
Camp Valley	Erratic		IGH7	IGH7 Quaternary
Caragh Lough	Moraine		IGH7	IGH7 Quaternary
Barrow	Residual tower karst	Barrow	IGH8	IGH1 Karst
Fenit Island	Waulsortian with large sponges	Fenit	IGH8	IGH8 Lower Carboniferous
Caherconree and Derrymore Glen	Devonian	Derrymore East	IGH10	IGH2 Precambrian - Devonian Palaeontology
Carrahane Strand	Waulsortian buildups, with lithistid demosponges	Barrow, Carrahane	IGH8	IGH8 Lower Carboniferous
South coastal section of Kerry Head westwards from Ballyheigue to Glenderry River	Devonian		IGH10	IGH10 Devonian
Fenit - Kilfenora - Spa	mass wasting		IGH14	IGH14 Fluvial/Lacustrine Geomorphology
Fenit - Kilfenora - Spa	mass wasting		IGH7	IGH7 Quaternary
Lough Duff (Head of Black Valley)	Drumlins		IGH7	IGH7 Quaternary
North side of Reeks	Solifluction lobes.		IGH7	IGH7 Quaternary
Ardfert Quarry	Quarry	Ballybroman	IGH8	IGH8 Lower Carboniferous
Macgillycuddy's Reeks	Aretes		IGH7	IGH7 Quaternary
The Gaddagh	fan, at least 4 Holocene terraces	MacGillycuddy's Reeks	IGH14	IGH14 Fluvial/Lacustrine Geomorphology
Cummeenduff Glen	U-shaped valley.		IGH7	IGH7 Quaternary
Ballybunion	raised beach		IGH7	IGH8 Lower Carboniferous
Ballybunnion	Exposed Waulsortian along coastal section	Numerous Townlands	IGH8	IGH8 Lower Carboniferous
Gap of Dunloe	Glacially-breached watershed		IGH7	IGH7 Quaternary
Killarney	Roche moutonnees, areal scouring, moraines		IGH7	IGH7 Quaternary
Lixnaw Quarry	Working Quarry, Visean Limestone, Distinctive Rock Type		IGH8	IGH8 Lower Carboniferous
Tomies Wood	Moraine		IGH7	IGH7 Quaternary
Lake section at Killarney	Devonian	Numerous Townlands	IGH10	IGH10 Devonian
Barry's Glen	Channels	(North of) Killarney	IGH7	IGH7 Quaternary
Lake Section Killarney	Red Marbles, Base of Waulsortian	Numerous Townlands	IGH8	IGH8 Lower Carboniferous
Torc Waterfall	waterfall	Muckross	IGH14	IGH14 Fluvial/Lacustrine Geomorphology
Devils Punch Bowl	Cirques	Mangerton	IGH7	IGH7 Quaternary
Kilcummin	Morainic ridges, fluvioglacial spreads.		IGH7	IGH7 Quaternary



Site Name	Principal characteristics Critical feature(s) key words	Townland(s)/district	Theme Site No.	IGH Theme - Primary
Kilgarvan, Roughty River section	Shelf Sequence, Mining Heritage Importance	Kilgarvin (Town)	IGH8	IGH8 Lower Carboniferous
Lough Guitane	Devonian sandstone and volcanics	Dromdiralough, Rossalia, Shronaboy	IGH10	IGH10 Devonian
Bennaunmore	igneous intrusion		IGH11	IGH11 Igneous Intrusions
Morley's Bridge roadcut	Glenflesk Chloritic Sandstone Formation	Kilgarvan	IGH10	IGH10 Devonian
Killeen (seperated from Bennaunmore by valley)	igneous intrusion		IGH11	IGH11 Igneous Intrusions
Inch - Castlemaine Harbour - Rossbehy	The Inch spit holds the finest dune belt in the country. A sand and shingle spit enclosing saltmarsh and mudflats on the eastern side. In the cliff just to the west of the spit a well-exposed Quaternary sequence occurs. It shows a raised beach, two till, and thick soliflucated deposits and is a type site.		IGH13	IGH13 Coastal Geomorphology
Ballinskelligs Bay - Lough Currane	beach and spits		IGH13	IGH13 Coastal Geomorphology
Barrow Harbour - Fenit	tombolo and dunes	Barrow	IGH13	IGH1 Karst
Barrys Glen and Ballydeenlea	Datable Goniatites	Killarney	IGH9	IGH9 Upper Carboniferous
Bá Bhreandáin	tombolo and dunes		IGH13	IGH13 Coastal Geomorphology
Com na hEorna	Solifluction lobes.		IGH7	IGH7 Quaternary
Dún Chaoin	mineralogy		IGH6	IGH6 Mineralogy
Killarney lakes	paternoster lakes		IGH14	IGH14 Fluvial/Lacustrine Geomorphology
Ceann Sléibhe	vertical cliff and glacial deposits		IGH13	IGH10 Devonian
Ceann Sibéal – Cuan Ard na Caithne	coastal geomorphology		IGH13	IGH10 Devonian



**Table 5.6: List of Woodland Designations in the Plan Area**

<b>Woodland</b>	<b>Designation</b>
Kilgarvan Wood	pNHA 001787
Ballyseedy Wood	Ballyseedy Wood cSAC 002112
Uragh Wood	Cloonee And Inchiquin Loughs, Uragh Wood cSAC 001342
Lyranes Lower Wood	Killarney National Park, Macgillicuddy's Reeks And Caragh River cSAC 000365
Drombane	Killarney National Park, Macgillicuddy's Reeks And Caragh River cSAC 000365
Carrig East	-----
Reenadinna Wood	Killarney National Park, Macgillicuddy's Reeks And Caragh River cSAC 000365
Dromore Old	Old Domestic Building, Dromore Woods cSAC 000353;
Derrycunihy Wood	Killarney National Park, Macgillicuddy's Reeks And Caragh River cSAC 000365
Glanageenty	Stacks to Mullagherisk Mts, West Limerick Hills and Mount Eagle SPA 04161
Ardagh Wood	Castlemaine Harbour cSAC 000343