1996 LOCH SURVEY: STRATHCLYDE* AREA

Code NS0801 Name LOCH TARSAN Grid Ref NS07789 1

Date 20/6/96 Surveyors OLL/CLD Estate HYDROELECTRIC/TILHILL/ANGLING ASSOC.

Area 110.4 ha Altitude 120 m Catchment ..... ha Geology 4.1

Water colour COLOURLESS Clarity CLEAR Boat used YES Secchi disc depth 4.0 m

Loch type 1 Edge type(s) 59a (NVC codes)

Status — Access 1 Road/houses present (underline)

Land use % Open water ..... Semi-natural ..... Forestry ..... Agriculture .....

Substrate types (underline main type, tick others present)

- ✓Bedrock
- ✓Boulders (>30cm max. diam.)
- ✓Stones (5-30cm diam.)
- ✓Gravel (4-50mm diam.)
- ✓Sand (0.1-4mm diam.)
- ✓Silt (<0.1mm diam.)
- Organic mud
- ✓Peat
- ✓Artificial embankment

USES AND DAMAGE

Use	Observations
Adjacent forestry	coniferous plantation dominates the catchment (TILHILL)
Agricultural pollution	
Edge trampling	
Fishing (edge/boat)	2 boats available – fishing club (permit only fly fishing)
Litter	Drinks cans, plastic bottles
Shooting	
Water abstraction	
Hydroelectricity	HE reservoir

SURROUNDING LAND USE:

CONIFEROUS PLANTATION

FAUNA

Mammals	Birds	Reptiles Amphibians	Fish	Dragonflies & other invertebrates
	common gulls + young	Rana temporaria tadpoles		

SPECIES DIVERSITY		RARE SPECIES		WATER CHEMISTRY		
Edge	11	Scarce (*)		Alkalinity	0.06	meq/l
Open water	3	Red Data Book (**)		Conductivity	54	µS/cm
Total	13			p.H.	6.3	

© Crown copyright and database right [2012]. All rights reserved. Ordnance Survey Licence number 100017908.

* Strathclyde area includes Argyll & Bute, Dumbartonshire, North & South Lanarkshire, City of Glasgow, East Renfrewshire, Renfrewshire, Inverclyde, North, South & East Ayrshire unitary authorities.

OLL 6/96

1996 STRATHCLYDE AREA LOCH SURVEY: AQUATIC PLANT SPECIES LIST

Code NS0801.. Site name ....LOCH...TARSAN..... Grid ref ...NS0778.1..... Date .20/6/96

EMERGENT & EDGE SPECIES

Map code	Species	DAFOR
Ac	*Acorus calamus*	.....
Ags	*Agrostis stolonifera*	...O...
Al	*Alisma lanceolatum*	.....
Apa	*Alisma plantago-aquatica*	.....
Apn	*Apium nodiflorum*	.....
Bar	*Baldellia ranunculoides*	.....
Ber	*Berula erecta*	.....
Bom	*Bolboschoenus maritimus*	.....
Bu	*Butomus umbellatus*	.....
Cal	*Calla palustris*	.....
Cap	*Caltha palustris*	.....
Cxat	*Carex acuta*	.....
Cxaf	*Carex acutiformis*	.....
Cxa	*Carex aquatilis*	.....
Cxl	*Carex lasiocarpa*	.....
Cxli	*Carex limosa*	.....
Cxn	*Carex nigra*	...LF...
Cxpc	*Carex pseudocyperus*	.....
Cxri	*Carex riparia*	.....
Cxro	*Carex rostrata*	...LO..
Cxv	*Carex vesicaria*	.....
Ca	*Catabrosa aquatica*	.....
Civ*	*Cicuta virosa*	.....
Clm	*Cladium mariscus*	.....
Des*	*Deschampsia setacea*	.....
Ela	*Eleocharis acicularis*	.....
Elm	*Eleocharis multicaulis*	.....
Elp	*Eleocharis palustris*	....O...
Elq	*Eleocharis quinqueflora*	.....
Elu	*Eleocharis uniglumis*	.....
Eqf	*Equisetum fluviatile*	...LF...
Eqp	*Equisetum palustre*	.....
Era	*Eriophorum angustifolium*	...LF...
Gld	*Glyceria declinata*	.....
Glf	*Glyceria fluitans*	....R...
Glm	*Glyceria maxima*	.....
Gln	*Glyceria notata*	.....
Hip	*Hippuris vulgaris*	.....
Hyd	*Hydrocotyle vulgaris*	.....
Ip	*Iris pseudacorus*	.....
Iv	*Iris versicolor*	.....
Jac	*Juncus acutiflorus*	.....
Jaa*	*Juncus alpinoarticulatus*	.....
Ja	*Juncus articulatus*	....O...
Jb	*Juncus bulbosus*	...LF...
Jc	*Juncus conglomeratus*	.....
Je	*Juncus effusus*	....O...
Lit	*Littorella uniflora*	.....
Lyc*	*Lycopodiella inundata*	.....
Lyt*	*Lysimachia thyrsiflora*	.....
Lyp	*Lythrum portula*	.....
Lys	*Lythrum salicaria*	.....
Ma	*Mentha aquatica*	.....
Mt	*Menyanthes trifoliata*	.....
Mg	*Mimulus guttatus*	.....
Ml	*Mimulus luteus*	.....
Mm	*Mimulus moschatus*	.....

Map code	Species	DAFOR
Mi	*Mimulus* sp.	.....
Mon	*Montia fontana*	.....
Myl	*Myosotis laxa*	.....
Msc	*Myosotis scorpioides*	.....
Msec	*Myosotis secunda*	.....
Oc	*Oenanthe crocata*	.....
Of	*Oenanthe fistulosa*	.....
Pam	*Persicaria amphibia*	.....
Ph	*Persicaria hydropiper*	.....
Pha	*Phalaris arundinacea*	.....
Phr	*Phragmites australis*	.....
Pop	*Potentilla palustris*	.....
Rfl	*Ranunculus flammula*	...O...
Rh	*Ranunculus hederaceus*	.....
Rl	*Ranunculus lingua*	.....
Ro	*Ranunculus omiophyllus*	.....
Rs	*Ranunculus sceleratus*	.....
Roa	*Rorippa amphibia*	.....
Roi	*Rorippa islandica*	.....
Rm	*Rorippa microphylla*	.....
Rna	*Rorippa nasturtium-aquaticum*	.....
Rxa**	*Rumex aquaticus*	.....
Rxh	*Rumex hydrolapathum*	.....
Sal	*Sagittaria latifolia*	.....
Sl	*Schoenoplectus lacustris*	.....
St	*Schoenoplectus tabernaemontani*	.....
Spem	*Sparganium emersum*	.....
Sper	*Sparganium erectum*	.....
Ta	*Typha angustifolia*	.....
Tl	*Typha latifolia*	.....
Vaa	*Veronica anagallis-aquatica*	.....
Vb	*Veronica beccabunga*	.....
Vc	*Veronica catenata*	.....
Vs	*Veronica scutellata*	.....
	SPECIES TOTAL	..11....

Other edge species

Cxd	*Carex viridula* ssp. *oedocarpa* (=*C.demissa*)	O
Cxe	*Carex echinata*	
Cxel	*Carex elata*	
Cxp	*Carex panicea*	O
Cxpa	*Carex paniculata*	
Gp	*Galium palustre*	O
Sa	*Senecio aquaticus*	
Tp	*Triglochin palustre*	
Vp	*Viola palustris*	F

Note: * = Scarce plants (occurring in 16-100 10x10km squares in Great Britain) known to occur in the Scottish Environment Agency West Region.

** = Red Data Book Species (occurring in >15 10x10km squares in Great Britain) known to occur in the Scottish Environment Agency West Region.

All species names follow those in Stace 1991.

© Crown copyright and database right [2012]. All rights reserved. Ordnance Survey Licence number 100017908.

OLL6/96

1996 STRATHCLYDE AREA LOCH SURVEY: AQUATIC PLANT SPECIES LIST

Code NS0801. Site name LOCH TARSAN Grid ref NS 07789 91 Date 20/6/96

SUBMERGED & FLOATING SPECIES

Map code	Species	DAFOR
Api	*Apium inundatum*	
Af	*Azolla filiculoides*	
Bar	*Baldellia ranunculoides*	
Cab	*Callitriche brutia*	
Cah	*Callitriche hamulata*	
Cher	*Callitriche hermaphroditica*	
Cao	*Callitriche obtusangula*	
Cpla	*Callitriche platycarpa*	
Cas	*Callitriche stagnalis*	
Ca	*Callitriche* sp.	O
Ced	*Ceratophyllum demersum*	
Crh	*Crassula helmsii*	
Ela*	*Elatine hexandra*	
Elh*	*Elatine hydropiper*	
Ef	*Eleogiton fluitans*	
Ec	*Elodea canadensis*	
En	*Elodea nuttallii*	
Fon	*Fontinalis antipyretica*	
Grd	*Groenlandia densa*	
Hip	*Hippuris vulgaris*	
Hop	*Hottonia palustris*	
Hmr	*Hydrocharis morsus-ranae*	
Hyd	*Hydrocotyle vulgaris*	
Ise*	*Isoetes echinospora*	
Isl	*Isoetes lacustris*	
Lam	*Lagarosiphon major*	
Lg	*Lemna gibba*	
Lm	*Lemna minor*	
Lmi	*Lemna minuta*	
Lt	*Lemna trisulca*	
Lit	*Littorella uniflora*	
Lob	*Lobelia dortmanna*	
Lun	*Luronium natans*	
Lyp	*Lythrum portula*	
Mal	*Myriophyllum alterniflorum*	
Maq	*Myriophyllum aquaticum*	
Msp	*Myriophyllum spicatum*	
Nf**	*Najas flexilis*	
Nua	*Nuphar advena*	
Nul	*Nuphar lutea*	
Nup*	*Nuphar pumila*	
Na	*Nymphaea alba*	
Nyp	*Nymphoides peltata*	
Pam	*Persicaria amphibia*	
Pil*	*Pilularia globulifera*	
Pal	*Potamogeton alpinus*	
Pbe	*Potamogeton berchtoldii*	
Pcol*	*Potamogeton coloratus*	
Pxco	*Potamogeton* x *cooperi*	
Pcr	*Potamogeton crispus*	
Pfil*	*Potamogeton filiformis*	
Pfr	*Potamogeton friesii*	
Pgr	*Potamogeton gramineus*	
Pxl	*Potamogeton* x *lintonii*	
Plu	*Potamogeton lucens*	
Pn	*Potamogeton natans*	
Pxn	*Potamogeton* x *nitens*	

Map code	Species	DAFOR
Pob	*Potamogeton obtusifolius*	
Ppec	*Potamogeton pectinatus*	
Pper	*Potamogeton perfoliatus*	
Ppol	*Potamogeton polygonifolius*	
Ppra	*Potamogeton praelongus*	
Ppu	*Potamogeton pusillus*	
Pxsp	*Potamogeton* x *sparganifolius*	
Pt*	*Potamogeton* trichoides	
Pxz	*Potamogeton* x *zizii*	
Ra	*Ranunculus aquatilis*	
Rb	*Ranunculus baudotii*	
Rc	*Ranunculus circinatus*	
Rf	*Ranunculus fluitans*	
Rp	*Ranunculus peltatus*	
Rpse	*Ranunculus penicillatus* ssp. *pseudofluitans*	
Rtr	*Ranunculus trichophyllus*	
Ruc*	*Ruppia cirrhosa*	
Rum	*Ruppia maritima*	
Spa	*Sparganium angustifolium*	
Spem	*Sparganium emersum*	
Spn	*Sparganium natans*	
Sp	*Sparganium* sp.	LO
Spp	*Spirodela polyrhiza*	
Sub	*Subularia aquatica*	
Uti	*Utricularia intermedia*	
Um	*Utricularia minor*	
Uo	*Utricularia ochroleuca*	
Us	*Utricularia stygia*	
Uva	*Utricularia vulgaris/australis* agg.	
Ut	*Utricularia* sp.	
Zan	*Zannichellia palustris*	
Jb	*Juncus bulbosus*	O
Cha	*Chara* sp.	
Nit	*Nitella* sp.	
	SPECIES TOTAL	3

Other species not included in total:

Sphag	*Sphagnum* sp.	

Specimens:

Chara sp. .....

Nitella sp. .....

Potamogeton sp. .....

Utricularia sp. .....

Note: * = Scarce plants (occurring in 16-100 10x10km squares in Great Britain) known to occur in the Scottish Environment Agency West Region.

** = Rare Plants Data Sheet (occurring in 15-10x10km squares in Great Britain) known to occur in the Scottish Environment Agency West Region.

All species names follow those in Stace 1991.

© Crown copyright and database right [2012]. All rights reserved. Ordnance Survey Licence number 100017908.

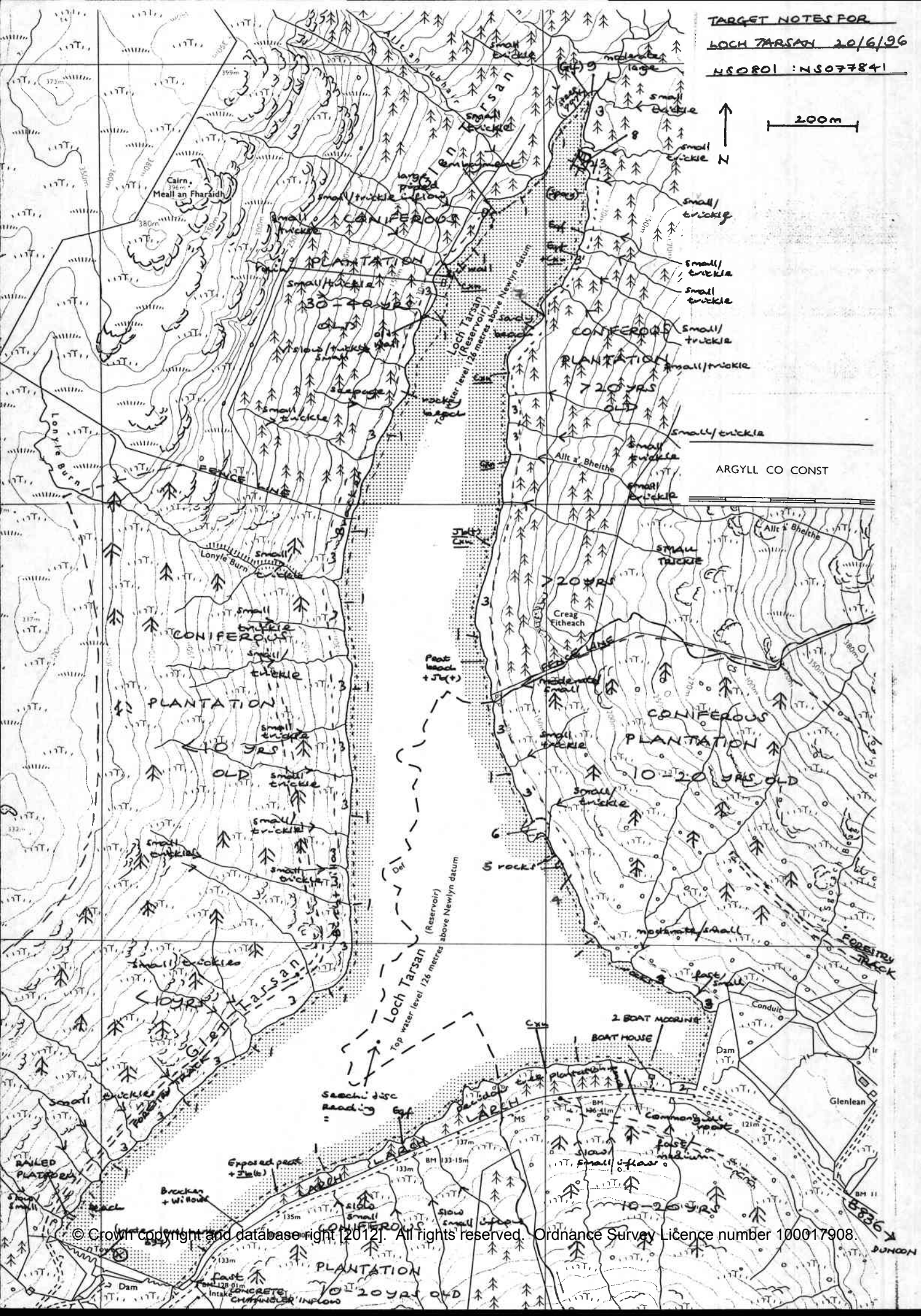
OLL6/96

TARGET NOTES FOR
LOCH TARSAN 20/6/96
NS0801 : NS077841

200m

N

ARGYLL CO CONST



© Crown copyright and database right [2012]. All rights reserved. Ordnance Survey Licence number 100017908.

NS0801 LOCH TARSAN 20/6/96 : TARGET NOTES

DESCRIPTION: Loch Tarsan is a man-made waterbody managed by Hydroelectric (Scottish). The majority of the catchment is under coniferous plantation (of various aged stands) (Tillhill). At the time of survey the water level was at 397 (? feet) on the Tower Dam marker. The loch outline is therefore slightly different to the 1:10,000 map produced in the 1970's. As a result of the lowered water level, large areas of exposed stone/boulder draw-down zones occur around the entire perimeter of the loch. Several small farm buildings and dry stone walls are now exposed. The loch is stocked annually with trout by the Loch Tarsan Angling Association which have a boat house/two boats available for rent. The trout are apparently quite thin due to the limited food resources in the loch.

① Draw-down zone: exposed stones and boulders with extremely sparse vegetation cover - Plantago lanceolatum, Alchemilla sp., Rumex acetosa, R. obtusifolia, Ags, Ja, Jb (t), Vp, Crepis capillaris, Era, Cirsium vulgare, Sorbus aucuparia.

② Grassy banks along loch edge: Carum verticillatum, Rfl, Crepis paludosa, Cxu, Ranunculus repens, Festuca rubra, Equisetum arvense, Je, Ags, Deschampsia cespitosa, Poa annua, Succisa pratensis, Nardus stricta, Cxp, Galium aparine, Trifolium repens, Potentilla erecta, Anthoxanthum odoratum, Salix aurita, Luzula multiflora, Polygala serpyllifolia.

③ Heath banks: Erica tetralix, Succisa pratensis, Anthoxanthum odoratum, Pedicularis sylvaticum, Holcus lanatus, Myrica gale, Lotus uliginosus, Narthecium ossifragum, Sphagnum sp., Salix cinerea agg., Cxp, Trichophorum cespitosum, Molinea caerulea, Juncus squarrosus, Luzula multiflora.

④ Peat beach + Jb (t), Era, Cxd, Rfl + small Cxro bed

⑤ Exposed lumps of bedrock: Jb(t), Jb (aq), Callitriche sp., Gp.

⑥ Gently shelving inundation zones: Cxu, Cxd, Rfl, Jb on lower shore. Upper shore: Era, Salix spp., Vp, Rfl, Gp, Cxro, Elp, Carum verticillatum.

⑦ Seepage into sheltered bay: Eqf and Callitriche sp. forming very sparse stands over fine sand + occ. Jb (aq) + Ags. Cxu + Jb (t) beds on banks

⑧ Old exposed sheep enclosure: Cxu, Jb (t), Gp, Rumex obtusifolius, Carum verticillatum.
Loch shallows: Eqf, Jb (aq), (Sparganium sp.)

⑨ Inflow channel: Eqf, Ags, (Glf), (Callitriche sp.)

© Crown copyright and database right [2012]. All rights reserved. Ordnance Survey Licence number 100017908.