

1996 LOCH SURVEY: DUMFRIES & GALLOWAY AREA

Code NX3715 Name DOW LOCHS Grid Ref NX394719  
 Date 2/09/96 Surveyors CLD / JTD Estate .....  
 Area 0.10 ha Altitude 30 m Catchment ..... ha Geology 49.....  
 Water colour pale brown Clarity clear Boat used NO Secchi disc depth — m  
 Loch type 2 Edge type(s) S1a S10a S11 S19a S23 S28a M23b M23a (NVC codes)  
S27a Sxx  
 Status HOOP OF CREE SSSI 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	.....
Agricultural pollution	.....
Edge trampling	.....
Fishing (edge/boat)	.....
Litter	.....
Shooting	.....
Water abstraction	.....

SURROUNDING LAND USE:

Deciduous woodland; road.

FAUNA

- |         |       |  |      |  |
|---------|-------|--|------|--|
| Mammals | Birds | Reptiles<br>Amphibians                     | Fish | Dragonflies &<br>other invertebrates                                       |
|         |       | <u>Rana temporaria</u><br><u>Bufo bufo</u> |      | <u>Leucospiza</u><br><u>Sempetium danae</u><br><u>Sempetium striolatum</u> |

SPECIES DIVERSITY

RARE SPECIES

WATER CHEMISTRY

Edge	<u>21</u>	Scarce (*)	.....	Alkalinity	<u>0.22</u> meq/l
Open water	<u>7</u>	Red Data Book (**)	.....	Conductivity	<u>7.6</u> µS/cm
Total	<u>27</u>			p.H.	<u>6.1</u>

1996 DUMFRIES & GALLOWAY AREA LOCH SURVEY: AQUATIC PLANT SPECIES LIST

Code NX3915 Site name DOG.....LOCHS..... Grid ref NX374719 Date 2/09/96

EMERGENT & EDGE SPECIES

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

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

SPECIES TOTAL ..... 21

Other edge species

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

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

1996 DUMFRIES & GALLOWAY AREA LOCH SURVEY: AQUATIC PLANT SPECIES LIST

Code NX3715 Site name BON LOCHS Grid ref NX374719 Date 2/09/96

SUBMERGED & FLOATING SPECIES

Map code	Species	DAFOR	Map code	Species	DAFOR
Api	<i>Apium inundatum</i>	.....	Pob	<i>Potamogeton obtusifolius</i>	.....
Af	<i>Azolla filiculoides</i>	.....	Ppec	<i>Potamogeton pectinatus</i>	.....
Bar	<i>Baldellia ranunculoides</i>	.....	Pper	<i>Potamogeton perfoliatus</i>	.....
Cab	<i>Callitriche brutia</i>	.....	Ppol	<i>Potamogeton polygonifolius</i>	<u>L.O.</u>
Cah	<i>Callitriche hamulata</i>	.....	Ppra	<i>Potamogeton praelongus</i>	.....
Cher	<i>Callitriche hermaphroditica</i>	.....	Ppu	<i>Potamogeton pusillus</i>	.....
Cao	<i>Callitriche obtusangula</i>	.....	Pxsp	<i>Potamogeton x sparganifolius</i>	.....
Cpla	<i>Callitriche platycarpa</i>	.....	Pt*	<i>Potamogeton trichoides</i>	.....
Cas	<i>Callitriche stagnalis</i>	.....	Pxz	<i>Potamogeton x zizii</i>	.....
Ca	<i>Callitriche sp.</i>	.....	Ra	<i>Ranunculus aquatilis</i>	.....
Ced	<i>Ceratophyllum demersum</i>	.....	Rb	<i>Ranunculus baudotii</i>	.....
Crh	<i>Crassula helmsii</i>	.....	Rc	<i>Ranunculus circinatus</i>	.....
Ela*	<i>Elatine hexandra</i>	.....	Rf	<i>Ranunculus fluitans</i>	.....
Elh*	<i>Elatine hydropiper</i>	.....	Rp	<i>Ranunculus peltatus</i>	.....
Ef	<i>Eleogiton fluitans</i>	.....	Rpse	<i>Ranunculus penicillatus</i>	.....
Ec	<i>Elodea canadensis</i>	.....		ssp. <i>pseudofluitans</i>	.....
En	<i>Elodea nuttallii</i>	.....	Rtr	<i>Ranunculus trichophyllus</i>	.....
Fon	<i>Fontinalis antipyretica</i>	.....	Ruc*	<i>Ruppia cirrhosa</i>	.....
Grd	<i>Groenlandia densa</i>	.....	Rum	<i>Ruppia maritima</i>	.....
Hip	<i>Hippuris vulgaris</i>	.....	Spa	<i>Sparganium angustifolium</i>	.....
Hop	<i>Hottonia palustris</i>	.....	Spem	<i>Sparganium emersum</i>	.....
Hmr	<i>Hydrocharis morsus-ranae</i>	.....	Spn	<i>Sparganium natans</i>	.....
Hyd	<i>Hydrocotyle vulgaris</i>	<u>R</u>	Sp	<i>Sparganium sp.</i>	.....
Ise*	<i>Isoetes echinospora</i>	.....	Spp	<i>Spirodela polyrhiza</i>	.....
Isl	<i>Isoetes lacustris</i>	.....	Sub	<i>Subularia aquatica</i>	.....
Lam	<i>Lagarosiphon major</i>	.....	Uti	<i>Utricularia intermedia</i>	.....
Lg	<i>Lemna gibba</i>	.....	Um	<i>Utricularia minor</i>	.....
Lm	<i>Lemna minor</i>	.....	Uo	<i>Utricularia ochroleuca</i>	.....
Lmi	<i>Lemna minuta</i>	.....	Us	<i>Utricularia stygia</i>	.....
Lt	<i>Lemna trisulca</i>	.....	Uva	<i>Utricularia vulgaris/australis</i> agg.	.....
Lit	<i>Littorella uniflora</i>	.....	Ut	<i>Utricularia sp.</i>	.....
Lob	<i>Lobelia dortmanna</i>	.....	Zan	<i>Zannichellia palustris</i>	.....
Lun	<i>Luronium natans</i>	.....	He	<i>Hypericum elodes</i>	<u>O/LA</u>
Lyp	<i>Lythrum portula</i>	.....			.....
Mal	<i>Myriophyllum alterniflorum</i>	.....			.....
Maq	<i>Myriophyllum aquaticum</i>	.....			.....
Msp	<i>Myriophyllum spicatum</i>	.....	Cha	<i>Chara sp.</i>	.....
Nf**	<i>Najas flexilis</i>	.....	Nit fl	<i>Nitella sp. n. flexilis</i> agg.	<u>A/LD</u>
Nua	<i>Nuphar advena</i>	.....			.....
Nul	<i>Nuphar lutea</i>	<u>A</u>			.....
Nup*	<i>Nuphar pumila</i>	.....			.....
Na	<i>Nymphaea alba</i>	<u>L.O.</u>			.....
Nyp	<i>Nymphoides peltata</i>	.....			.....
Pam	<i>Persicaria amphibia</i>	.....			.....
Pil*	<i>Pilularia globulifera</i>	.....			.....
Pal	<i>Potamogeton alpinus</i>	.....			.....
Pbe	<i>Potamogeton berchtoldii</i>	.....			.....
Pcol*	<i>Potamogeton coloratus</i>	.....			.....
Pxco	<i>Potamogeton x cooperi</i>	.....			.....
Pcr	<i>Potamogeton crispus</i>	.....			.....
Pfil*	<i>Potamogeton filiformis</i>	.....			.....
Pfr	<i>Potamogeton friesii</i>	.....			.....
Pgr	<i>Potamogeton gramineus</i>	.....			.....
Pxl	<i>Potamogeton x lintonii</i>	.....			.....
Plu	<i>Potamogeton lucens</i>	.....			.....
Pn	<i>Potamogeton natans</i>	<u>F</u>			.....
Pxn	<i>Potamogeton x nitens</i>	.....			.....

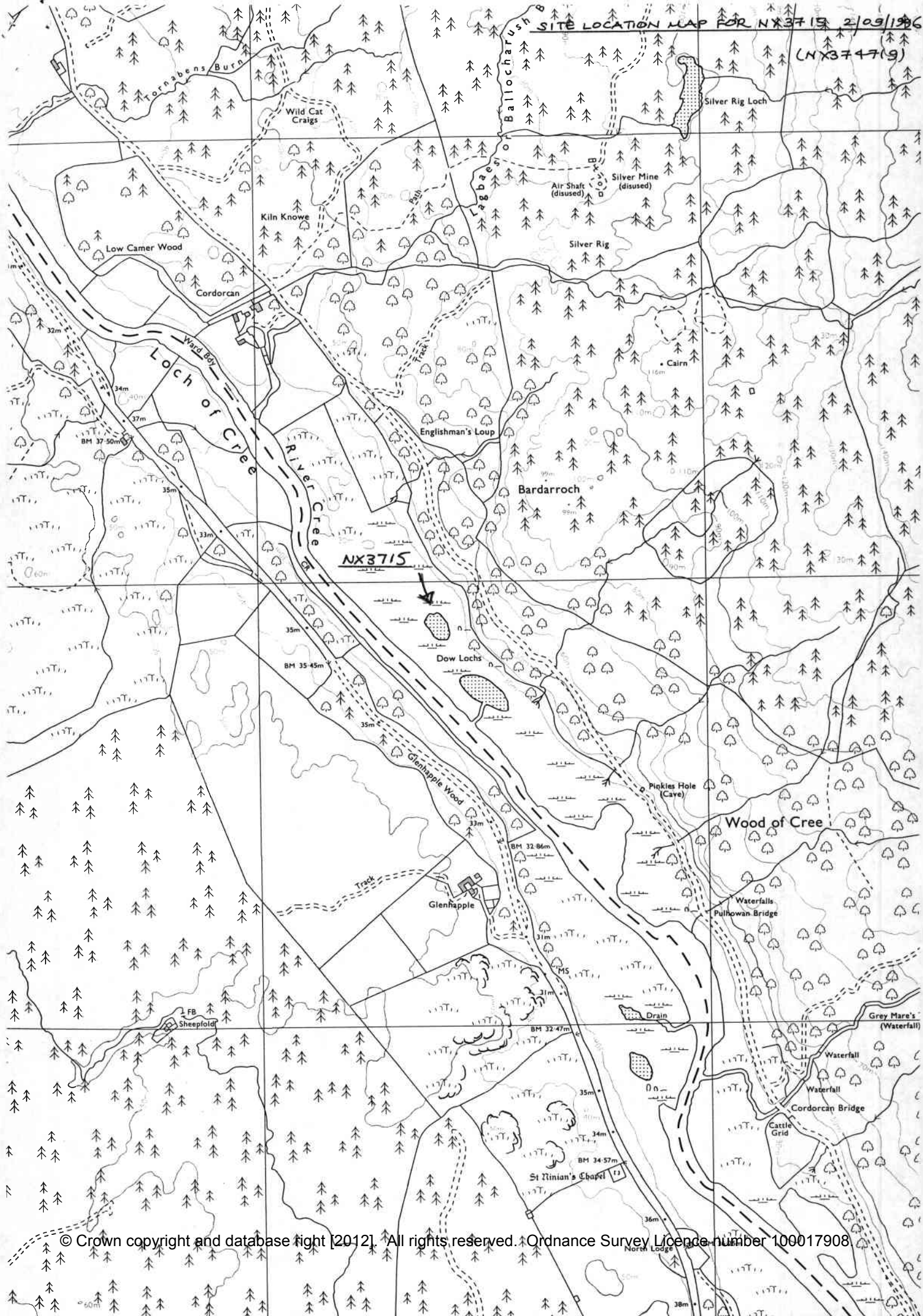
SPECIES TOTAL ..... 7 .....

Other species not included in total:  
 Sphag *Sphagnum sp.* .....

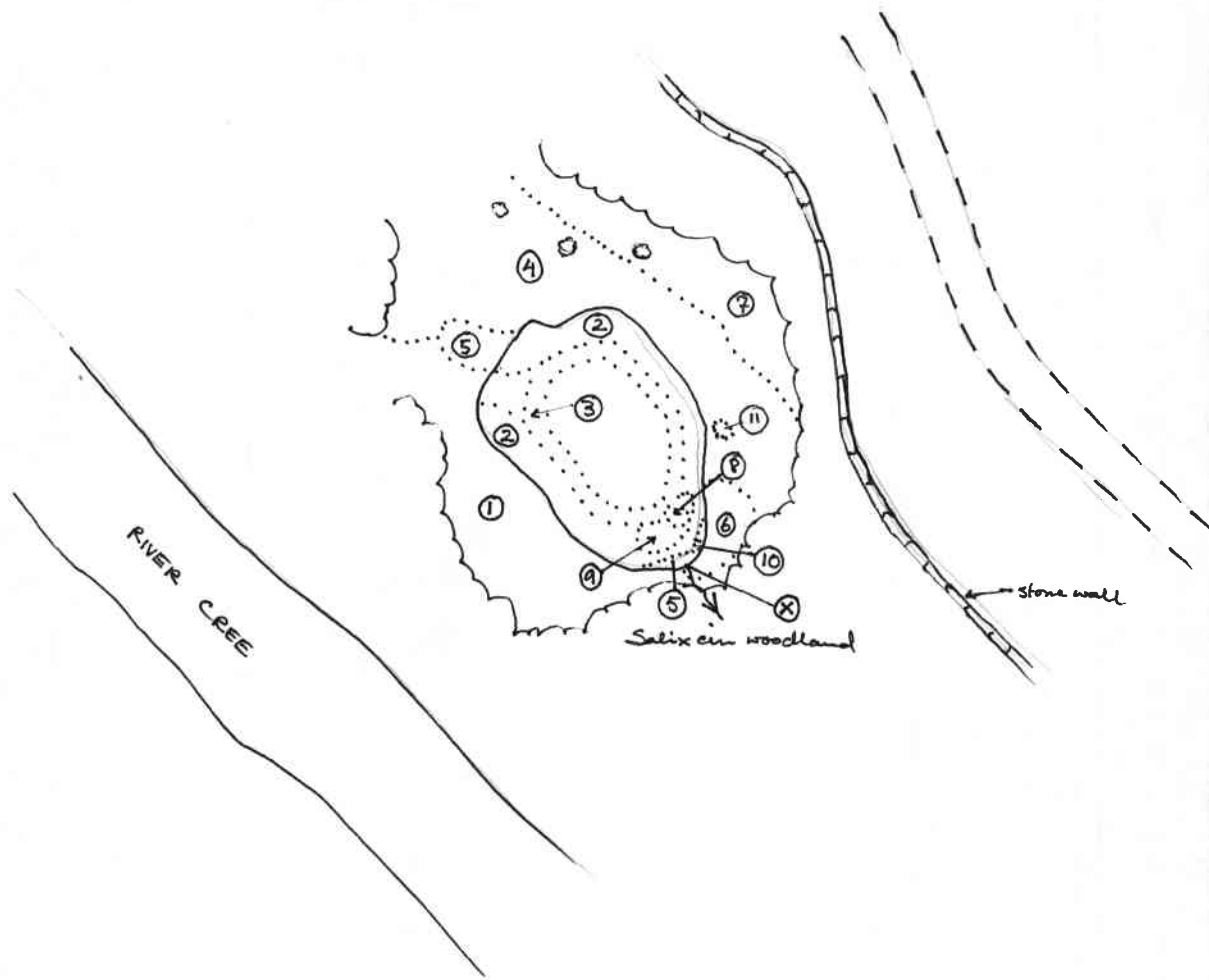
Specimens:  
 Chara sp. ....  
 Nitella sp. *N. flexilis* - 12.7.96 } identification confirmed by N.E. Stewart  
 Potamogeton sp. ....  
 Utricularia sp. ....

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

(NX374719)



NX3715



The above loch is one of two lochs (Dow Lochs) in the floodplain of the River Cree, NX3715 being surrounded by fen meadow and wet *Salix/Alnus* woodland.

Loch and surrounding vegetation

① Fen meadow with locally abundant *Cxa*, mostly dominated by *Jac* with *Pha*, *Fil ulm*, *Sa*, *Succia prat*, *Hyd(T)*, *HOT lan*, *VS*, *Cxv*, *Cxn*, *Cxro*, *Pop*, *Agg*, *Oc*, *Msc*, *Gp*, *Lyc eur*, *Cxp*, *Era*, *Sphag*, *Mentha sp.* *Cxc*, *Cxe*, *Egf*, *Ang syl*, *Mt* on edge, *Scut gale*, *Ped pal*; backed by *Salix cin.* with *Alnus glu* wet woodland.

② Nul ring

③ Open ring of *Pn* with *Nitella flexilis*

④ *Jac* [M23a] with *Cap* and *Hypericum elodes* with *Myr gale* otherwise as ①.

⑤ *Cxro* [59]      ⑥ *Pha* with *Lyc eur*, *Gp*, *Lys*, *Hyd*, *Oc*. [528]

⑦ *MST cae* grassland      ⑧ *Na*

⑨ Sparse *Egf* [E10a].

⑩ *Gf* + *Flp*      ⑪ Small area dominated by *Jc*.