

1996 LOCH SURVEY: DUMFRIES & GALLOWAY AREA

Code NX9907 Name LOCH ETRICK Grid Ref NX 944937
 Date 2.9.96 Surveyors NJW/OLL Estate

Area 7.5 ha Altitude 260 m Catchment ha Geology 50/59
 Water colour COLOURLESS Clarity CLEAR Boat used NO Secchi disc depth m
 Loch type 3 (leading to 5A) Edge type(s) S9a S10a S19a S27a M23ab S19b (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 | Silt (<0.1mm diam.) |
| <input checked="" type="checkbox"/> Boulders (>30cm max. diam.) | Organic mud |
| <input checked="" type="checkbox"/> Stones (5-30cm diam.) | Peat |
| <input checked="" type="checkbox"/> Gravel (4-50mm diam.) | <input checked="" type="checkbox"/> Artificial embankment |
| <input checked="" type="checkbox"/> Sand (0.1-4mm diam.) | |

USES AND DAMAGE

Use	Observations
Adjacent forestry	<u>LOCH SURROUNDED BY CONIFER FORESTRY</u>
Agricultural pollution	.....
Edge trampling	<u>FOOTPATH AROUND LOCH PLUS SOME TRAMPLING AT FISHING POINTS</u>
Fishing (edge/boat)	<u>P/T FLY FISHERY STOCKED WITH RAINBOW + BROWN TROUT. BANK & BOAT FISHING</u>
Litter	<u>BOTTLES & CANS AROUND FISHING POINTS</u>
Shooting	<u>DUCK BLINDS ON N. SHORE</u>
Water abstraction	<u>RESERVOIR FOR LOCAL WATER SUPPLY CONSTRUCTED IN 1880</u>
Management	<u>SOME CLOSE CUTTING OF MENYANTHES ON N. SHORE TO CONTROL ALLEGED ENKROACHMENT</u>

SURROUNDING LAND USE:

10-30 YR OLD COMMERCIAL CONIFER FORESTRY

FAUNA				
Mammals	Birds	Reptiles Amphibians	Fish	Dragonflies & other invertebrates
			<u>stocked Brown + Rainbow Trout</u>	<u>Sympetrum striolatum Erythemis cyathigerum Ischnura elegans</u>

SPECIES DIVERSITY		RARE SPECIES	WATER CHEMISTRY	
Edge	<u>19</u>	Scarce (*)	Alkalinity	<u>0.18</u> meq/l
Open water	<u>10</u>	Red Data Book (**)	Conductivity	<u>5.8</u> µS/cm
Total	<u>28</u>		p.H.	<u>6.9</u>

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

Code NX 9907 Site name LOCH ETRICK Grid ref NX 544937 Date 2.9.96

EMERGENT & EDGE SPECIES

Map code	Species	DAFOR	Map code	Species	DAFOR
Ac	<i>Acorus calamus</i>	.....	Mi	<i>Mimulus</i> sp.	.....
<u>Ag</u> s	<u><i>Agrostis stolonifera</i></u>	<u>F</u>	Mon	<i>Montia fontana</i>	.....
Al	<i>Alisma lanceolatum</i>	.....	<u>Myl</u>	<u><i>Myosotis laxa</i></u>	<u>0</u>
Apa	<i>Alisma plantago-aquatica</i>	.....	<u>Msc</u>	<u><i>Myosotis scorpioides</i></u>	<u>OLF</u>
Apn	<i>Apium nodiflorum</i>	.....	Msec	<i>Myosotis secunda</i>	.....
Bar	<i>Baldellia ranunculoides</i>	.....	Oc	<i>Oenanthe crocata</i>	.....
Ber	<i>Berula erecta</i>	.....	Of	<i>Oenanthe fistulosa</i>	.....
Bom	<i>Bolboschoenus maritimus</i>	.....	Pam	<i>Persicaria amphibia</i>	.....
Bu	<i>Butomus umbellatus</i>	.....	Ph	<i>Persicaria hydropiper</i>	.....
Cal	<i>Calla palustris</i>	.....	Pha	<i>Phalaris arundinacea</i>	.....
Cap	<i>Caltha palustris</i>	.....	Phr	<i>Phragmites australis</i>	.....
Cxat	<i>Carex acuta</i>	.....	<u>Pop</u>	<u><i>Potentilla palustris</i></u>	<u>FLA</u>
Cxaf	<i>Carex acutiformis</i>	.....	<u>Rfl</u>	<u><i>Ranunculus flammula</i></u>	<u>F</u>
Cxa	<i>Carex aquatilis</i>	.....	Rh	<i>Ranunculus hederaceus</i>	.....
Cxl	<i>Carex lasiocarpa</i>	.....	RI	<i>Ranunculus lingua</i>	.....
Cxli	<i>Carex limosa</i>	.....	Ro	<i>Ranunculus omiophyllus</i>	.....
<u>Cxn</u>	<u><i>Carex nigra</i></u>	<u>F</u>	Rs	<i>Ranunculus sceleratus</i>	.....
Cxpc	<i>Carex pseudocyperus</i>	.....	Roa	<i>Rorippa amphibia</i>	.....
Cxri	<i>Carex riparia</i>	.....	Roi	<i>Rorippa islandica</i>	.....
<u>Cxro</u>	<u><i>Carex rostrata</i></u>	<u>FLD</u>	Rm	<i>Rorippa microphylla</i>	.....
Cxv	<i>Carex vesicaria</i>	.....	Rna	<i>Rorippa nasturtium-aquaticum</i>	.....
Ca	<i>Catabrosa aquatica</i>	.....	Rxa**	<i>Rumex aquaticus</i>	.....
Civ*	<i>Cicuta virosa</i>	.....	Rxh	<i>Rumex hydrolapathum</i>	.....
Clm	<i>Cladium mariscus</i>	.....	Sal	<i>Sagittaria latifolia</i>	.....
Des*	<i>Deschampsia setacea</i>	.....	Sl	<i>Schoenoplectus lacustris</i>	.....
Ela	<i>Eleocharis acicularis</i>	.....	St	<i>Schoenoplectus tabernaemontani</i>	.....
Elm	<i>Eleocharis multicaulis</i>	.....	Spem	<i>Sparganium emersum</i>	.....
<u>Elp</u>	<u><i>Eleocharis palustris</i></u>	<u>OLF</u>	Sper	<i>Sparganium erectum</i>	.....
Elq	<i>Eleocharis quinqueflora</i>	.....	Ta	<i>Typha angustifolia</i>	.....
Elu	<i>Eleocharis uniglumis</i>	.....	TI	<i>Typha latifolia</i>	.....
<u>Efq</u>	<u><i>Equisetum fluviatile</i></u>	<u>FLA</u>	Vaa	<i>Veronica anagallis-aquatica</i>	.....
Eqp	<i>Equisetum palustre</i>	.....	Vb	<i>Veronica beccabunga</i>	.....
Era	<i>Eriophorum angustifolium</i>	.....	Vc	<i>Veronica catenata</i>	.....
Gld	<i>Glyceria declinata</i>	.....	<u>Vs</u>	<u><i>Veronica scutellata</i></u>	<u>0</u>
Glf	<i>Glyceria fluitans</i>	<u>OLF</u>	<u>Per-min</u>	<u><i>Persicaria minor</i></u>	<u>0</u>
Glm	<i>Glyceria maxima</i>	.....	SPECIES TOTAL		<u>19</u>
Gln	<i>Glyceria notata</i>	.....	Other edge species		
Hip	<i>Hippuris vulgaris</i>	.....	<u>Cxd</u>	<u><i>Carex viridula</i> ssp. <i>oedocarpa</i> (=C. <i>demissa</i>)</u>	<u>LO</u>
<u>Hyd</u>	<u><i>Hydrocotyle vulgaris</i></u>	<u>LF</u>	Cxe	<i>Carex echinata</i>	.....
Ip	<i>Iris pseudacorus</i>	.....	Cxel	<i>Carex elata</i>	.....
Iv	<i>Iris versicolor</i>	.....	<u>Cxp</u>	<u><i>Carex panicea</i></u>	<u>OLF</u>
<u>Jac</u>	<u><i>Juncus acutiflorus</i></u>	<u>A</u>	Cxpa	<i>Carex paniculata</i>	.....
Jaa*	<i>Juncus alpinoarticulatus</i>	.....	<u>Gp</u>	<u><i>Galium palustre</i></u>	<u>FLA</u>
<u>Ja</u>	<u><i>Juncus articulatus</i></u>	<u>FLA</u>	Sa	<i>Senecio aquaticus</i>	.....
<u>Jb</u>	<u><i>Juncus bulbosus</i></u>	<u>0</u>	Tp	<i>Triglochin palustre</i>	.....
<u>Jc</u>	<u><i>Juncus conglomeratus</i></u>	<u>R</u>	<u>Vp</u>	<u><i>Viola palustris</i></u>	<u>0</u>
<u>Je</u>	<u><i>Juncus effusus</i></u>	<u>A</u>			
<u>Lit</u>	<u><i>Littorella uniflora</i></u>	<u>FLD</u>			
Lyc*	<i>Lycopodiella inundata</i>	.....		
Lyt*	<i>Lysimachia thyrsoiflora</i>	.....		
Lyp	<i>Lythrum portula</i>	.....		
Lys	<i>Lythrum salicaria</i>	.....		
Ma	<i>Mentha aquatica</i>	.....		
<u>Mt</u>	<u><i>Menyanthes trifoliata</i></u>	<u>OLF</u>			
Mg	<i>Mimulus guttatus</i>	.....		
Ml	<i>Mimulus luteus</i>	.....		
Mm	<i>Mimulus moschatus</i>	.....		

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

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All species names follow those in Stace 1991.

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

Code NX9907 Site name LOCH ETRICK Grid ref NX 944 937 Date 2.9.96

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>Cah</u>	<u><i>Callitriche hamulata</i></u>	<u>LO</u>	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>	.....
<u>Ec</u>	<u><i>Elodea canadensis</i></u>	<u>OLF</u>		ssp. <i>pseudofluitans</i>	.....
<u>En</u>	<u><i>Elodea nuttallii</i></u>	<u>FLA</u>	Rtr	<i>Ranunculus trichophyllus</i>	.....
<u>Fon</u>	<u><i>Fontinalis antipyretica</i></u>	<u>OLF</u>	Ruc*	<i>Ruppia cirrhosa</i>	.....
Grd	<i>Groenlandia densa</i>	.....	Rum	<i>Ruppia maritima</i>	.....
Hip	<i>Hippuris vulgaris</i>	.....	<u>Spa</u>	<u><i>Sparganium angustifolium</i></u>	<u>OLA</u>
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>	.....	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.	.....
<u>Lit</u>	<u><i>Littorella uniflora</i></u>	<u>ALD</u>	Ut	<i>Utricularia sp.</i>	.....
Lob	<i>Lobelia dortmanna</i>	.....	Zan	<i>Zannichellia palustris</i>	.....
Lun	<i>Luronium natans</i>	.....			.....
Lyp	<i>Lythrum portula</i>	.....			.....
<u>Mal</u>	<u><i>Myriophyllum alterniflorum</i></u>	<u>OLA</u>			.....
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. flexilis</i> agg.	<u>A</u>
Nua	<i>Nuphar advena</i>	.....	Nit tr	<i>Nitella translucens</i>	<u>LF</u>
Nul	<i>Nuphar lutea</i>	.....		SPECIES TOTAL	<u>10</u>
Nup*	<i>Nuphar pumila</i>	.....		
Na	<i>Nymphaea alba</i>	.....		
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>	.....		
<u>Pn</u>	<u><i>Potamogeton natans</i></u>	<u>FLD</u>			
Pxn	<i>Potamogeton x nitens</i>	.....		

Other species not included in total:

Spagh *Sphagnum sp.*

Specimens:

Chara sp.

Nitella sp. N.fl. 12.2/96; Nit. 12.8/96 } identification confirmed by C.D. Preston

Potamogeton sp.

Utricularia sp.

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OLL8/96



SOUTH OF SCOTLAND EURO CONST

SITE LOCATION MAP FOR NX2907 02.09.1996
(NX944937)

LONG
3° 40' W
94

295000m

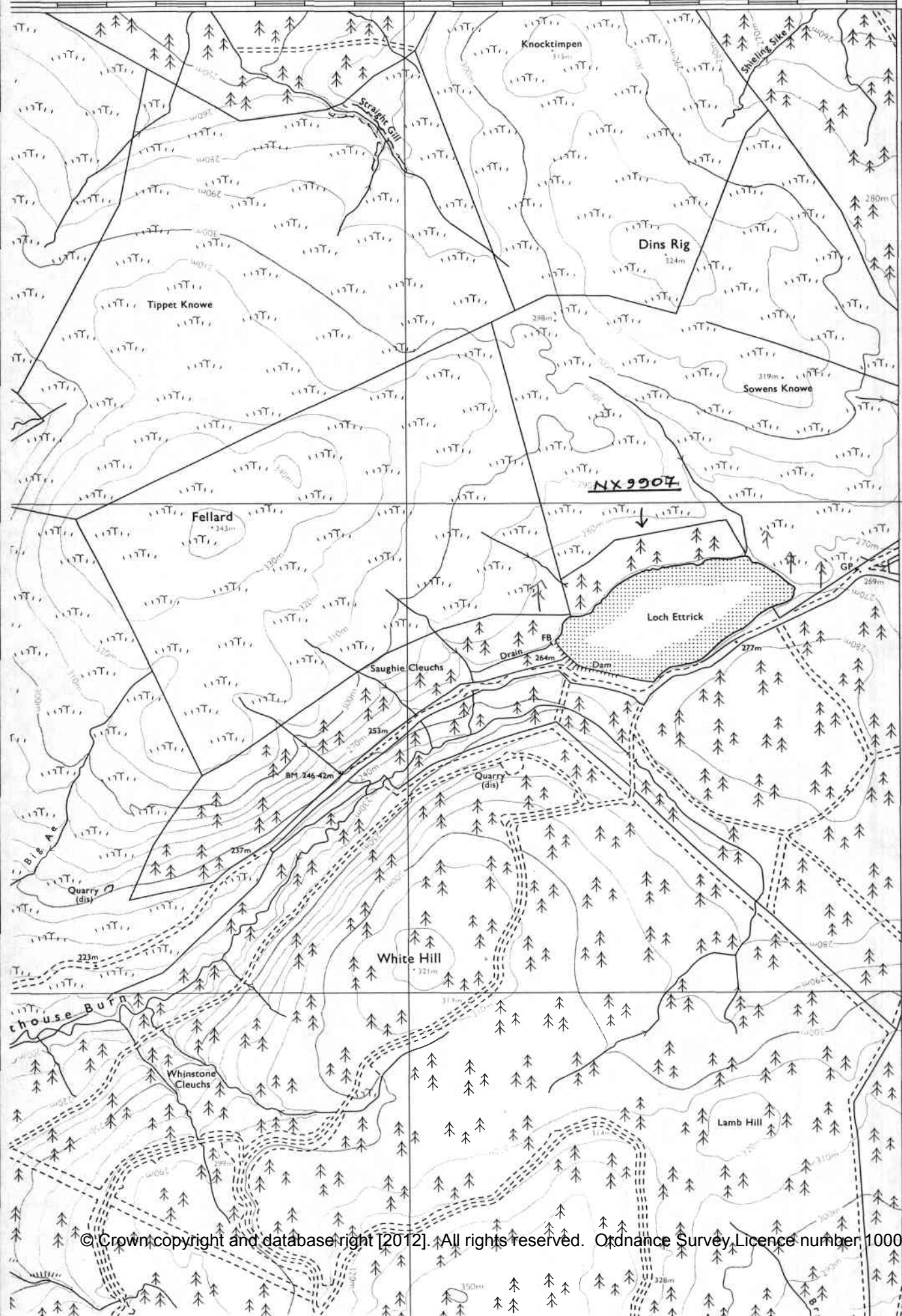
595000m

LAT
55° 14'

94

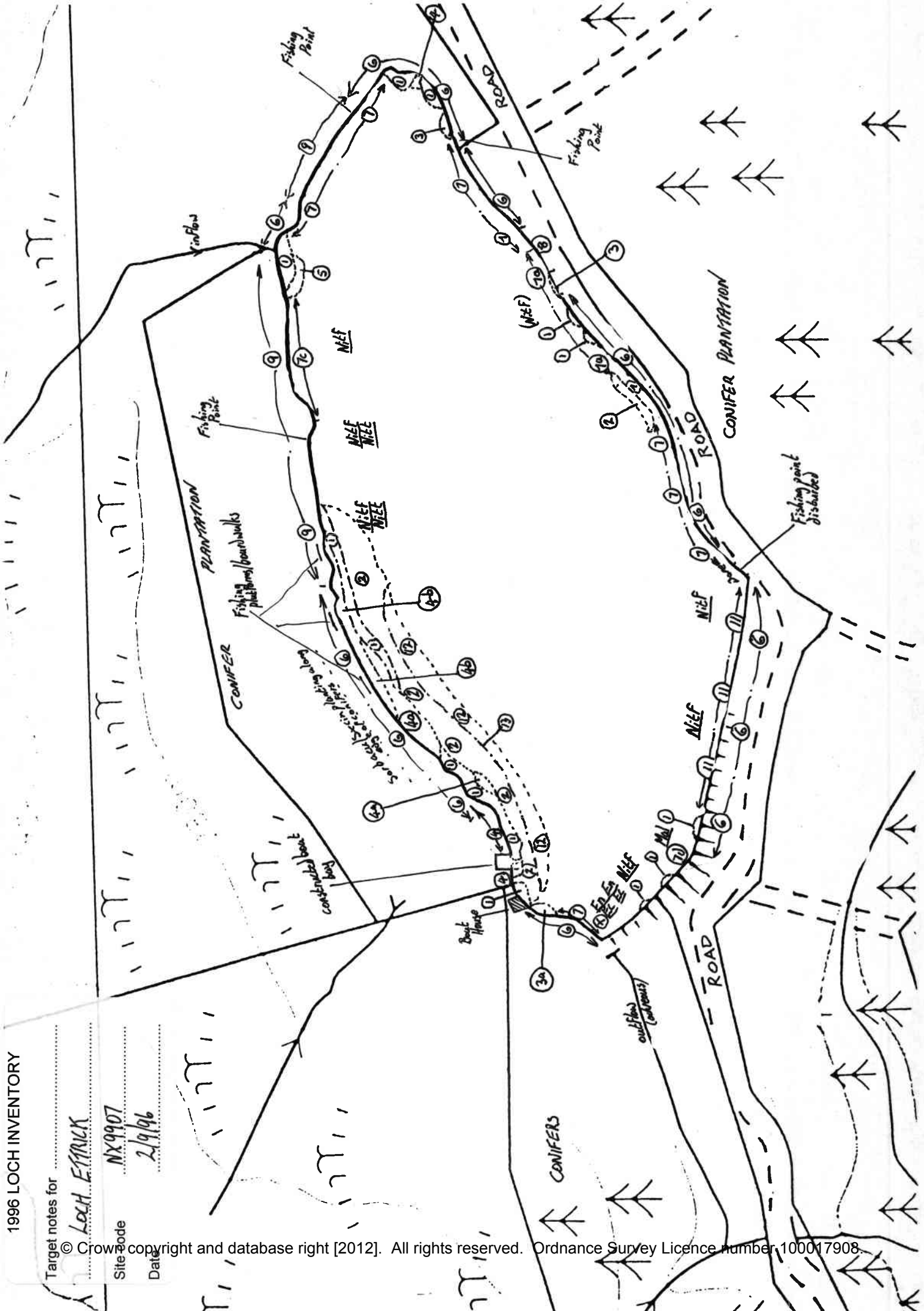
93

13'



1996 LOCH INVENTORY

Target notes for
Loch Errick
Site code
NX9907
Date
2/9/96



1996 LOCH INVENTORY: SOUTH WEST SCOTLAND

Code NX9907

Name LOCH EARRICK

Grid ref. NX944937

Date 2/9/96

A medium sized dammed loch situated within (towards edge) of extensive conifer plantation. An oligotrophic system but with *Elocheas* (the latter prob^{ly} bears testament to Fishery). Fairly intensive use as Fishery. The system is fairly straightforward - *Nitella* spp dominate over mud of aquatic zone with more diverse community with *Mal* and *Ec, En* off dam. Beds of Floating vegⁿ *Po* and *Spa* occur off northern reedswamp. The littoral is mainly stoney with areas of peats and sands. The flora here is restricted to *Lit*. Apart from small stands reedswamp is mainly off the northern shore where there is a well marked transition from :- open water → *P* bed → *Pi/S10a* → *S10a* → *S9a* → *S27a Mt* → *M23a Sac* in a classic gradient. Much of the margin is vegetated by *Sac M23a* communities.

Site of moderate interest.

- ① Marginal reedswamp *S9a Cxro*
- ② " " *S10a EgF*
- ③ " " *S19 EIp* ③a *S19b EIp Lit*
- ④ " " *S27a* ④a *S27a Mt* ④b as 4a but cut.
- ⑤ Aquatic community: bed of *Spa*
- ⑥ Loch banks/edge - dominated by *M23a Sac* community with loc-ab. *Pop* also *Se Gr Hyd Msc Des cesp*
- ⑦ Aquatic community - littoral zone: stoney with *Lit*
- ⑦a Sparsely colonised (*Lit*) stoney shore ⑦b *Lit* on peat ⑦c As ⑦ but with sand gravel stone bed ⑦d (*Lit*)
- ⑧ Loch bank - heath vegⁿ *Callunet/Vacc myr*
- ⑨ Loch bank/adj-land *Mol-caer mire* with *Callunet*
- ⑩ Inflow - burn banks: *Se Descomp Se Puncacetr Leonant Raci Cirspl*
- ⑪ Stone clad dam with ruderals. Littoral bare
- ⑫ Aquatic community bed of *Pn*
- ⑬ Boundary between *S10a EgF* beds (②) and *Pn* beds (⑫) is diffuse transition with either achieving local dominance