

1996 LOCH SURVEY: STRATHCLYDE\* AREA

Code NS3114 Name SNIFE LOCK Grid Ref NS 385173  
 Date 4/7/96 Surveyors NJW / JJD Estate CLONCAIRD FARM  
 Area 2.5 ha Altitude 100 m Catchment ..... ha Geology 56  
 Water colour V. PALE YELLOW Clarity CLEAR Boat used NO Secchi disc depth ..... m  
 Loch type 8 Edge type(s) S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, S11, S12, S13, S14, S15, S16, S17, S18, S19, S20, S21, S22, S23, S24, S25, S26, S27, S28, S29, S30, S31, S32, S33, S34, S35, S36, S37, S38, S39, S40, S41, S42, S43, S44, S45, S46, S47, S48, S49, S50, S51, S52, S53, S54, S55, S56, S57, S58, S59, S60, S61, S62, S63, S64, S65, S66, S67, S68, S69, S70, S71, S72, S73, S74, S75, S76, S77, S78, S79, S80, S81, S82, S83, S84, S85, S86, S87, S88, S89, S90, S91, S92, S93, S94, S95, S96, S97, S98, S99, S100 (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	.....
Agricultural pollution	.....
Edge trampling	<u>AROUND FISHING STATIONS</u>
Fishing (edge/boat)	<u>COMMERCIAL B/R TROUT FISHERY. BANK BASED. STOCKED FOR &gt;10YRS</u>
Litter	<u>NONE. BINS PROVIDED. INFLOW CHANNEL AT S. END POLLUTED, OCHROUS, WITH DOMESTIC LITTER FROM FARM</u>
Shooting	<u>CORMORANTS CONTROLLED (shot) Fishing only from westbank. Very popular put &amp; take fishery</u>
Water abstraction	.....

SURROUNDING LAND USE:

WET WOODLAND, UNIMPROVED GRASSLAND NR. N. INFLOW. MAINLY IMPROVED G'LAND.

FAUNA

Mammals	Birds	Reptiles	Fish	Dragonflies & other invertebrates
	<u>Mute Swan</u>	Amphibians	<u>Perch</u>	<u>Ischnura elegans</u>
	<u>Mallard</u>	<u>Rana temporaria</u>	<u>Pike</u>	
	<u>R. Bunting</u>		<u>Brown } stocked</u>	
	<u>S. Warbler</u>		<u>R'bow } trout</u>	

SPECIES DIVERSITY

Edge ..... 27 .....  
 Open water ..... 7 .....  
 Total ..... 34 .....

RARE SPECIES

Scarce (\*) .....  
 Red Data Book (\*\*) .....

WATER CHEMISTRY

Alkalinity ..... 1.4 ..... meq/l  
 Conductivity ..... 693 ..... µS/cm  
 p.H. .... 8.0 .....

1996 STRATHCLYDE AREA LOCH SURVEY: AQUATIC PLANT SPECIES LIST

Code NS 314 Site name SNIPE LOCH Grid ref NS 385173 Date 4.7.96

EMERGENT & EDGE SPECIES

Map code	Species	DAFOR
Ac	<i>Acorus calamus</i>	.....
<u>Ags</u>	<u><i>Agrostis stolonifera</i></u>	..... O
Al	<i>Alisma lanceolatum</i>	.....
<u>Apa</u>	<u><i>Alisma plantago-aquatica</i></u>	..... F
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>	..... F
Cxat	<i>Carex acuta</i>	.....
Cxaf	<i>Carex acutiformis</i>	.....
Cxa	<i>Carex aquatilis</i>	.....
Cxl	<i>Carex lasiocarpa</i>	.....
Cxli	<i>Carex limosa</i>	.....
<u>Cxn</u>	<u><i>Carex nigra</i></u>	..... LO
Cxpc	<i>Carex pseudocyperus</i>	.....
Cxri	<i>Carex riparia</i>	.....
Cxro	<i>Carex rostrata</i>	..... O-LD
<u>Cxv</u>	<u><i>Carex vesicaria</i></u>	..... F-LA
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>	..... A
Elq	<i>Eleocharis quinqueflora</i>	.....
Elu	<i>Eleocharis uniglumis</i>	.....
<u>Eqf</u>	<u><i>Equisetum fluviatile</i></u>	..... A
<u>Eqp</u>	<u><i>Equisetum palustre</i></u>	.....
Era	<i>Eriophorum angustifolium</i>	.....
Gld	<i>Glyceria declinata</i>	.....
<u>Glf</u>	<u><i>Glyceria fluitans</i></u>	..... LF
Glm	<i>Glyceria maxima</i>	.....
Gln	<i>Glyceria notata</i>	.....
Hip	<i>Hippuris vulgaris</i>	.....
Hyd	<i>Hydrocotyle vulgaris</i>	.....
<u>Ip</u>	<u><i>Iris pseudacorus</i></u>	..... O.LF.
Iv	<i>Iris versicolor</i>	.....
<u>Jac</u>	<u><i>Juncus acutiflorus</i></u>	..... LO
Jaa*	<i>Juncus alpinoarticulatus</i>	.....
<u>Ja</u>	<u><i>Juncus articulatus</i></u>	..... O
Jb	<i>Juncus bulbosus</i>	.....
Jc	<i>Juncus conglomeratus</i>	.....
<u>Je</u>	<u><i>Juncus effusus</i></u>	..... LF
Lit	<i>Littorella uniflora</i>	.....
Lyc*	<i>Lycopodiella inundata</i>	.....
Lyt*	<i>Lysimachia thyrsoiflora</i>	.....
Lyp	<i>Lythrum portula</i>	.....
Lys	<i>Lythrum salicaria</i>	.....
<u>Ma</u>	<u><i>Mentha aquatica</i></u>	..... A
<u>Mt</u>	<u><i>Menyanthes trifoliata</i></u>	..... F-LD
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>	.....
<u>Myl</u>	<u><i>Myosotis laxa</i></u>	..... LO
<u>Msc</u>	<u><i>Myosotis scorpioides</i></u>	..... F
Msec	<i>Myosotis secunda</i>	.....
Oc	<i>Oenanthe crocata</i>	.....
Of	<i>Oenanthe fistulosa</i>	.....
<u>Pam</u>	<u><i>Persicaria amphibia</i></u>	..... LF
<u>Ph</u>	<u><i>Persicaria hydropiper</i></u>	..... O
<u>Pha</u>	<u><i>Phalaris arundinacea</i></u>	..... LF
<u>Phr</u>	<u><i>Phragmites australis</i></u>	..... LD
<u>Pop</u>	<u><i>Potentilla palustris</i></u>	..... LA
<u>Rfl</u>	<u><i>Ranunculus flammula</i></u>	..... O
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>	.....
<u>Rna</u>	<u><i>Rorippa nasturtium-aquaticum</i></u>	..... F
Rxa**	<i>Rumex aquaticus</i>	.....
Rxh	<i>Rumex hydrolapathum</i>	.....
Sal	<i>Sagittaria latifolia</i>	.....
Sl	<i>Schoenoplectus lacustris</i>	.....
St	<i>Schoenoplectus tabernaemontani</i>	.....
Spem	<i>Sparganium emersum</i>	.....
<u>Sper</u>	<u><i>Sparganium erectum</i></u>	..... F
Ta	<i>Typha angustifolia</i>	.....
TI	<i>Typha latifolia</i>	..... LA
Vaa	<i>Veronica anagallis-aquatica</i>	.....
<u>Vb</u>	<u><i>Veronica beccabunga</i></u>	..... R
Vc	<i>Veronica catenata</i>	.....
Vs	<i>Veronica scutellata</i>	.....
SPECIES TOTAL		..... 27

Other edge species

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

*Stachys palustris*  
*Rorippa palustris* LF  
*Scutellaria galericulata*  
*Solanum dulcamara*  
*Lysimachia nemorosum*  
*Lycopus europaeus*

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

1996 STRATHCLYDE AREA LOCH SURVEY: AQUATIC PLANT SPECIES LIST

Code NS3114 Site name SNIPE LOCH Grid ref NS 385173 Date 4.7.96

SUBMERGED & FLOATING SPECIES

Map code	Species	DAFOR	Map code	Species	DAFOR
Api	<i>Apium inundatum</i>	.....	Pob	<i>Potamogeton obtusifolius</i>	0
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>	.....
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>	.....
<u>Cas</u>	<u><i>Callitriche stagnalis</i></u>	0	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>	0		<i>ssp. 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>	.....	<u>Spem</u>	<u><i>Sparganium emersum</i></u>	10
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>	.....
<u>Lm</u>	<u><i>Lemna minor</i></u>	0	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>	.....			.....
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	<i>Nitella sp.</i>	.....
Nua	<i>Nuphar advena</i>	.....			.....
<u>Nul</u>	<u><i>Nuphar lutea</i></u>	LA			.....
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>	.....			.....
<u>Pbe</u>	<u><i>Potamogeton berchtoldii</i></u>	R			.....
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>	.....			.....
Pxn	<i>Potamogeton x nitens</i>	.....			.....

Other species not included in total:  
 Spagh *Sphagnum sp.* .....  
 SPECIES TOTAL ..... 7

Specimens:  
 Chara sp. ....  
 Nitella sp. ....

Potamogeton sp. ... Pbe 8.5/96, Pob 8.6/96 } identification confirmed by C.D. Preston

Utricularia sp. ....

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

1996 LOCH INVENTORY

Site location map for **NS3114**

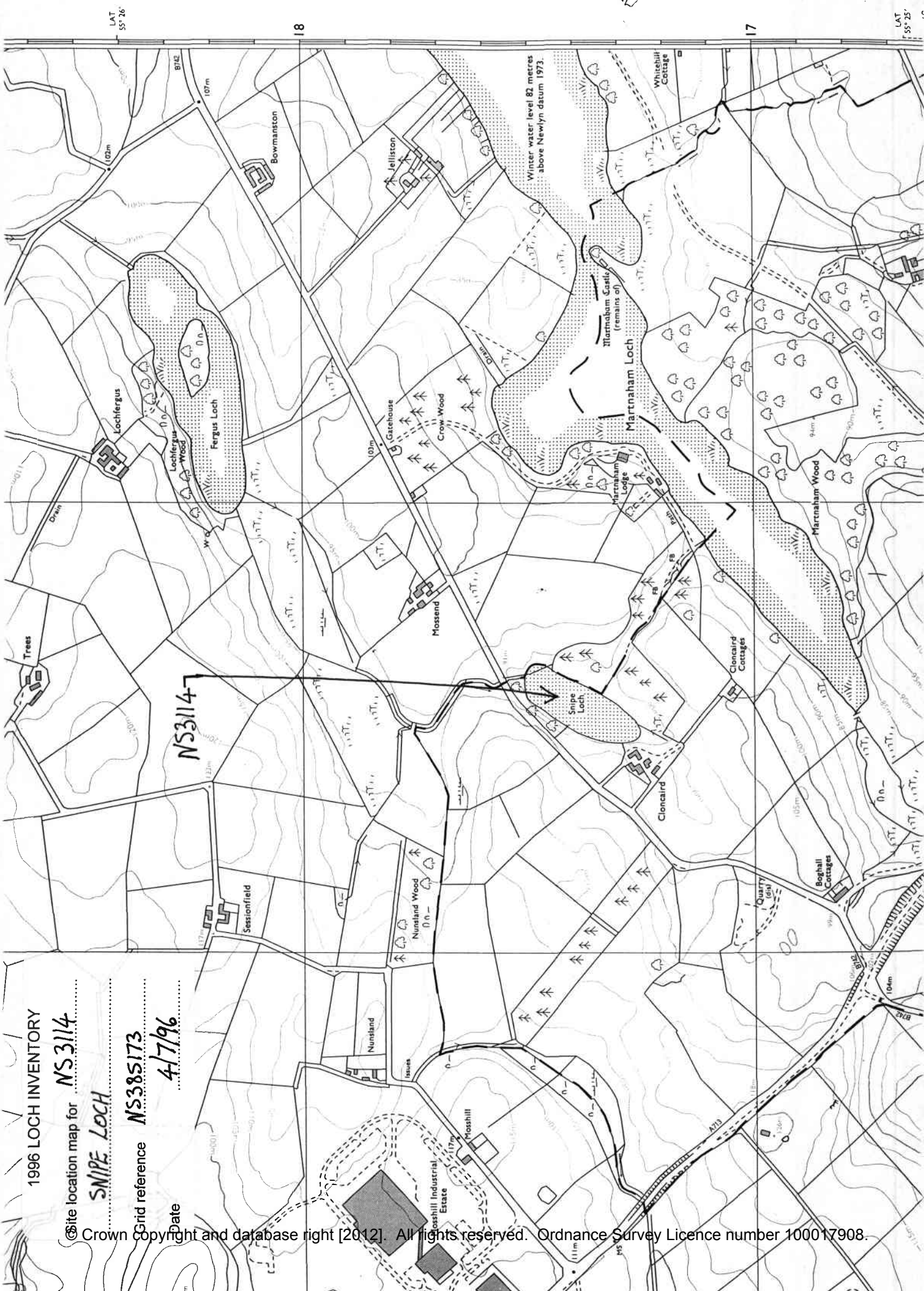
**SNIPE LOCH**

Grid reference **NS385173**

Date **4-7-96**

Date

**NS3114**





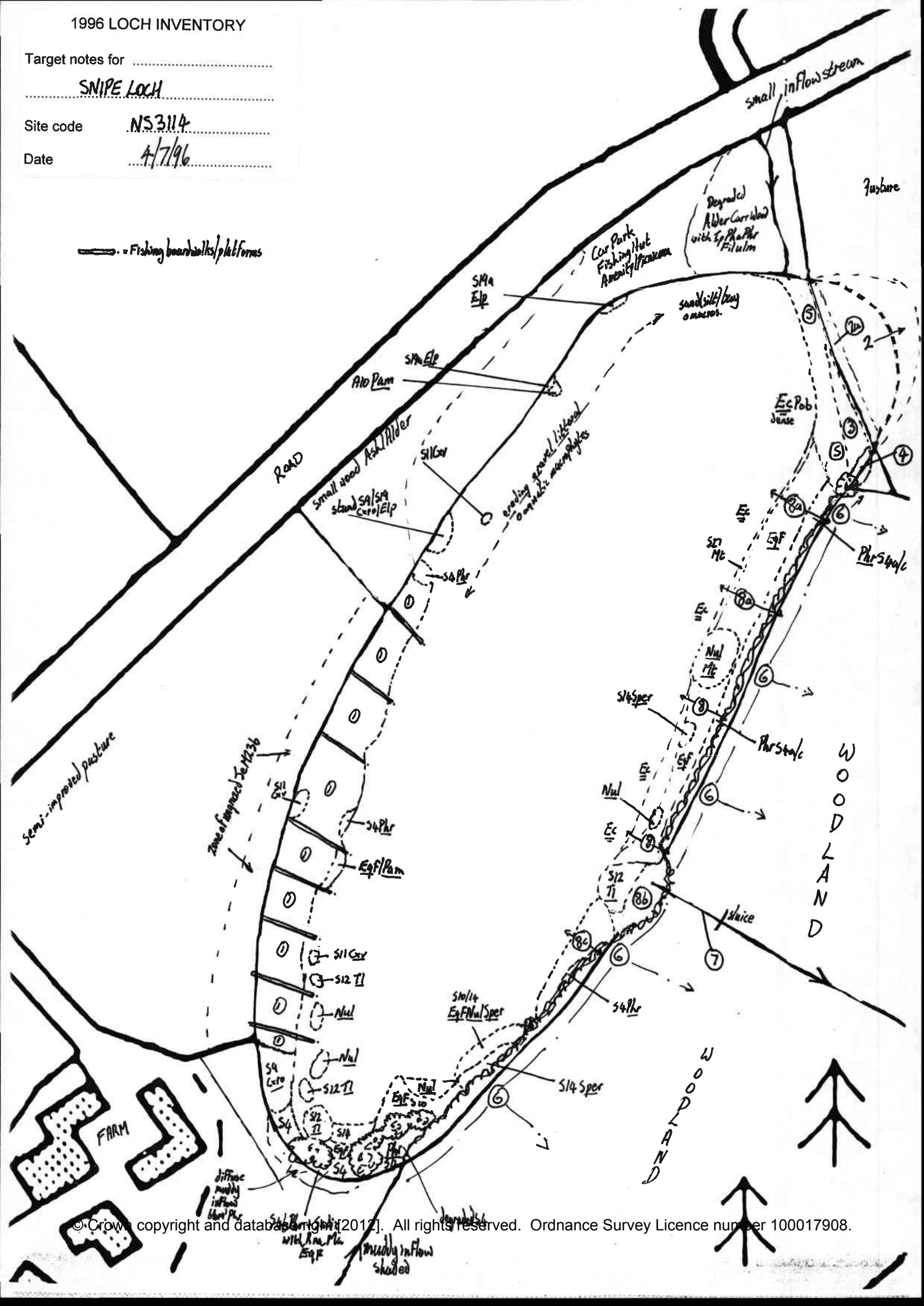
Target notes for .....

**SHIPE LOCH**

Site code **NS3114**

Date **4/7/96**

—•—•— = Fishing boards/walks/platforms



Code NS3114

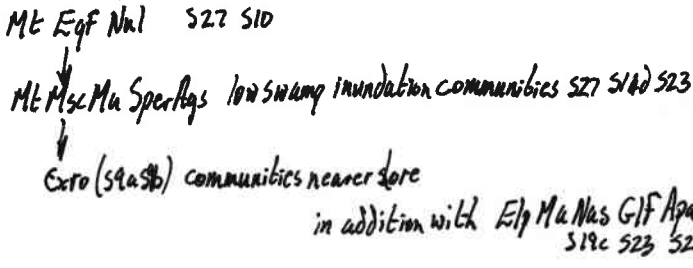
Name SNIFE LOCH

Grid ref NS 385173

Date 4/7/96

A small loch heavily utilised as a put & take trout fishery - v. popular (fortunately fishing restricted to west bank). The aquatic flora is limited but includes very luxuriant growth of *El* (legacy of fishery). Site may have been more mesotrophic in past but now type 8. The principle interest in the site is its reed swamp and along east side open water - swamp - woodland transition in fairly intact form. The swamps are well est<sup>d</sup> extensive, diverse both in spp and communities. The swamps support a number of southern elements uncommon in Scotland - juxtaposed with more northern/mesotrophic types - an unusual situation. The swamps extend for c 3/4 of the perimeter but are cut on the west bank. The site has undoubtedly suffered some degradation/eutrophication of the water column; despite this it still holds considerable floristic interest principally on account of its swamp communities and intact hydrosereal succession.

① Reeds swamp - this area has been cut (grazed) and is mainly low growing < 0.5m. It is traversed by a series of fishing platforms. There is a well est<sup>d</sup> reeds swamp mat altho the floristics are liable to be in a state of flux due to novel current management regime. It is a complex of S10a S10b S9b S23 S22 S19 swamp communities with various local dominants. There is a general trend from :



② Winter inundation zone - extending back into pasture and supporting a mesotrophic mire/marsh community: - grazed  
*Ip* *Cxro* *Se* *Lych* *F-c*, *Rf1*, *Gp*, *GIF*, *flag*, *Apa*, *Cxro*, *Pop*

②a Grazed reeds swamp fringe - trampled spp. rich with *Ph* *El* *Ma* *Lyc* *europ*.

③ S4 *Phr* swamp

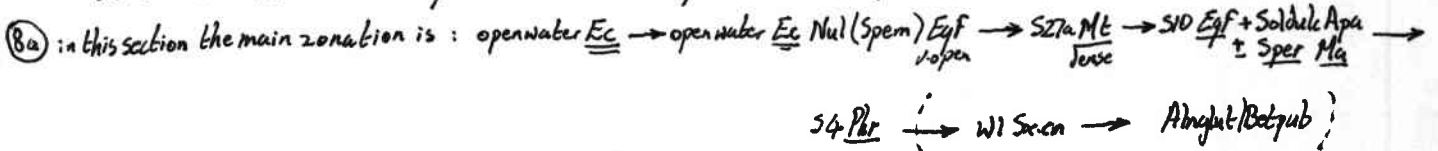
④ S11a *Cxv* "

⑤ S10a *Eqf* "

⑥ Loch edge - adjacent land :- woodland  
 The loch margin is diffuse with the reeds swamp merging into a belt of *Salix cinerea* scrub over deep organic silts, this grades into a more mature *Alnus glut* / *Sx cin* zone, with most of the alders developed from coppiced stools, before a more mixed *Aln glut* / *Bet pub* wood. The ground flora consists of damp/oving spp. and includes:  
*Cap* *Cxv* (la) *Ma* *Ip* *Phr* *Phl* (f) *Sol dul* *Lyc* *europ* *Fil* *um* *Des ces* *Urt dio* (la)

⑦ Outfall with old sluice - v. silty channel with *Ec* / *Cas* and stands of S14 *Sper*; *Eqf* / *Cxro* S10b.

⑧ Reeds swamp: - <sup>well developed</sup> an extensive reeds swamp community grading inland into wet woodland. The swamp is complex with a variety of species/assemblages achieving local dominance - overall *Eqf* predominates with *Phr* dominating the inner zone and *Mt* a narrow outer zone but there are a number of other prevalent communities present incl S14 *Sper*, S23, S12 and A8 *Nul*



⑧b Swamp area predominated S10b/S9b *Eqf* *Cxro* + S27a *Pop* + S23 *Rna* + *Ip*

⑧c Swamps zonation proceeds Open water *Ec* → Open water *Ec* *Eqf* → S10a *Eqf* *Sol dul* → *Apa*  
 sparse on long mud at standard