

1996 LOCH SURVEY: DUMFRIES & GALLOWAY AREA

Code NX5701 Name CLATTERINGSHAW'S LOCH Grid Ref NX545769

Date 11/09/96 Surveyors CLD/OLL/NW Estate

Area 381.6 ha Altitude 170 m Catchment ha Geology 49/50

Water colour COLOURLESS Clarity CLEAR Boat used NO Secchi disc depth m

Loch type 3 Edge type(s) S22, S28 S11a (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	.....
Fishing (edge/boat)	<u>edge fishing in progress</u>
Litter	.....
Shooting	.....
Water abstraction	<u>Extensive drawdown zone from 25m to 60m + with minimal vegetation</u>

SURROUNDING LAND USE:

conifer plantation; rough grazing (sheep);

FAUNA

Mammals Birds Reptiles Fish Dragonflies & other invertebrates
 Amphibians

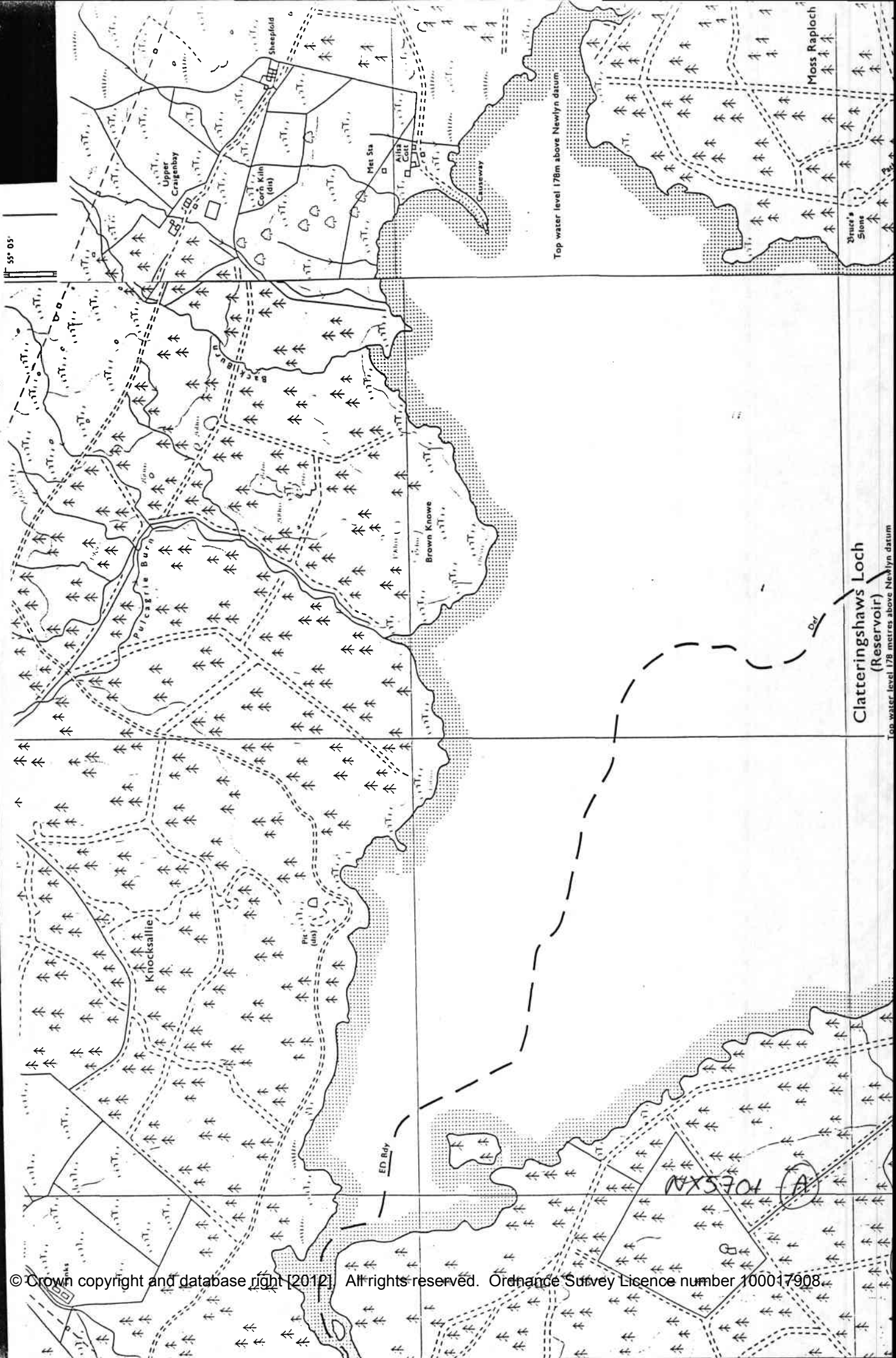
SPECIES DIVERSITY

RARE SPECIES

WATER CHEMISTRY

Edge	<u>19</u>	Scarce (*)	.....	Alkalinity	<u>0.16</u> meq/l
Open water	<u>4</u>	Red Data Book (**)	.....	Conductivity	<u>55</u> µS/cm
Total	<u>23</u>			p.H.	<u>7.6</u>

55° 05'



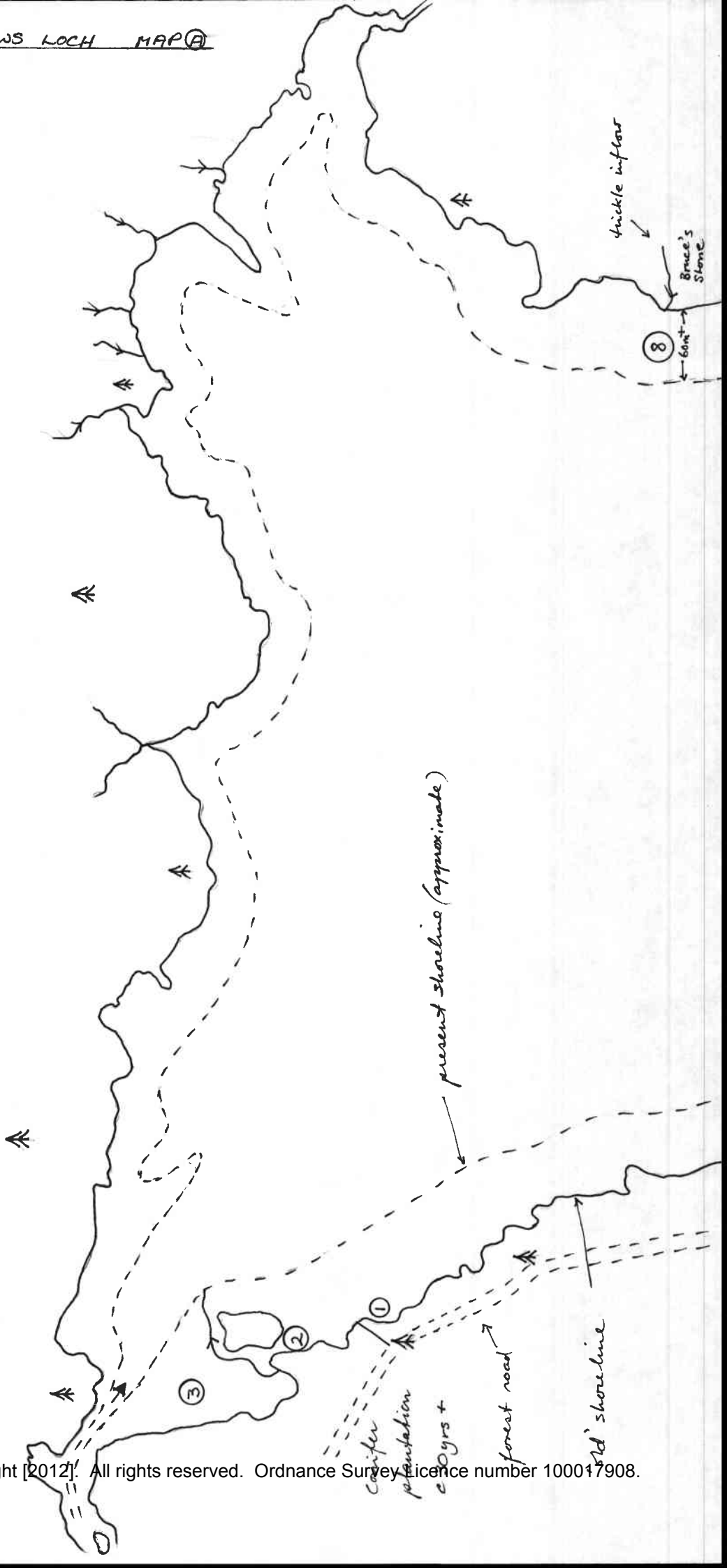
Top water level 178m above Newlyn datum

Clatteringshaws Loch (Reservoir)

Top water level 178 metres above Newlyn datum



conifer plantation 30yrs +



present shoreline (approx. made)

1

2

3

conifer plantation
c 20yrs +

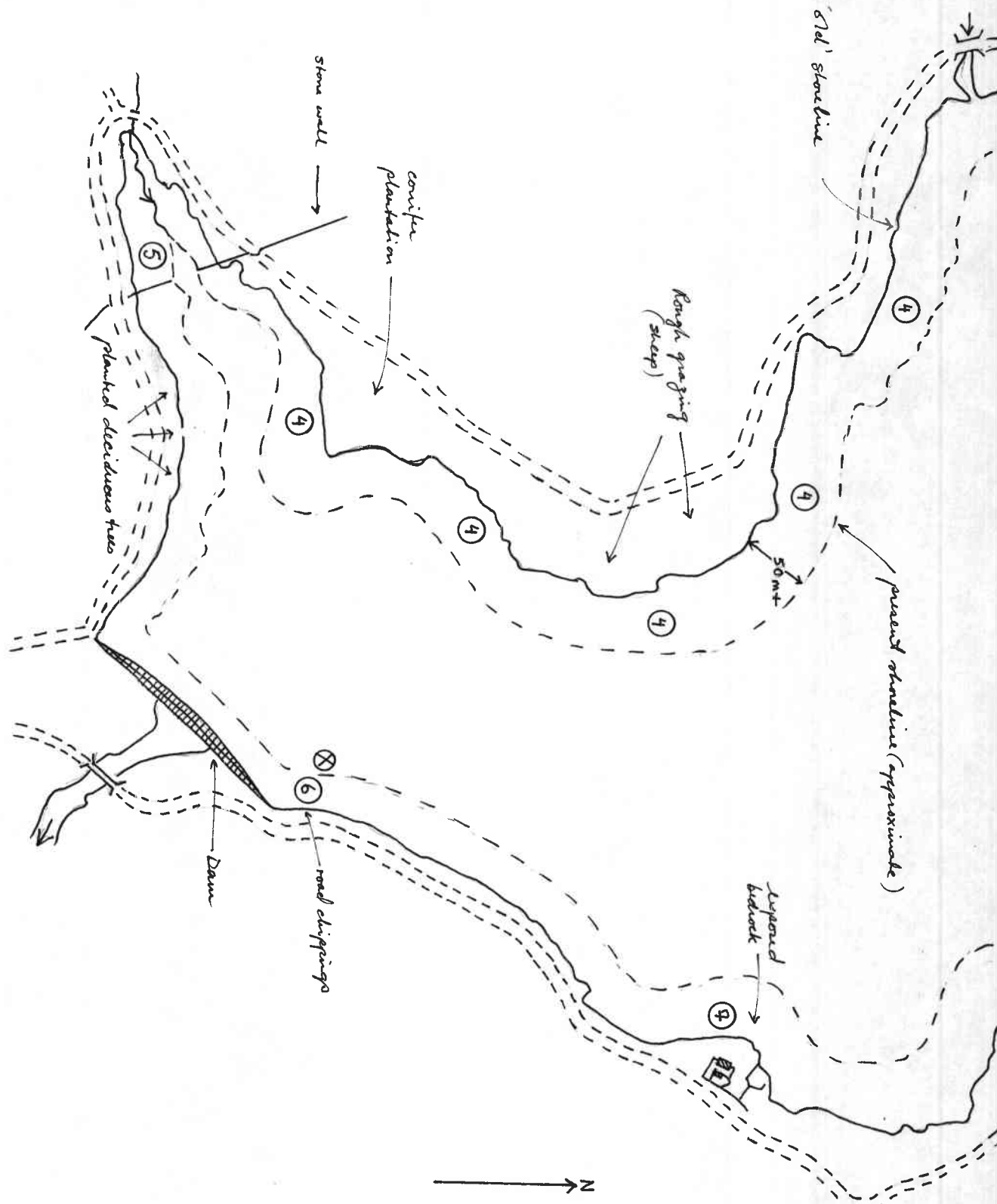
forest road

old shoreline

thicket inflow

Bruce's Stone

60m



Clatteringshaws Loch is a reservoir with an extensive drawdown zone (in places more than 60m wide). Minimal aquatic vegetation was found in inflows only. A limited survey was undertaken, a selection of sites along the more accessible western, southern and eastern shores were chosen for sampling. The surrounding vegetation was mostly dominated by conifer plantations with some rough grazing and wet marginal areas.

Loch vegetation

- ① On the lower 25m of a c 30-40m drawdown zone Jb(T) dominated with Ph, Cah (T), (Hyd), (Rfl), (Sphag), (Ags), (Cas) + mosses.
On upper 5-15m stony/bouldery zone had patches of Jb(T), Cxv, Glf, Sphag aw, Cxn, (Pha), (Gnaph uli), Sp (T), Poly minus; backed by Salix scrub (cin 2 aw) on exposed bedrock over Des ces / Mol cae grassland with Je, Cal vul, Canum ver, Leon aut, Des flex, Myr gale, Pot ere, Red pal, Pter aqu.
- ② Ancient pine wood stumps exposed on bare peat with Jb(T), Mt, Era, Vp, Cxp, Cxd, Ags, Agr can*, with Cal vul mire/heath + occasional conifer plantation / Salix scrub.
- ③ Exposed loch basin between old & present shoreline, linking island to surrounding land - now with tuckale inflow (iron coloured). Inflow with Cas, Mal, Egf & Glf.
Land beyond island with stands of Cxv, Pha, Cxn, Glf with Rfl, Jb(T), Sphag, Ph, Des flex, Ags, Ja, Gnaph uli, Efp, Dras rot.
- ④ 50m+ drawdown zone composed of bedrock, boulders, stones, peat and exposed ancient 'bog' wood; with (Jb(T)), (Ph), (Cas), (Rfl); backed by Myr gale / Cal vul heath with Mol cae, Des flex, Agr can, Pot ere, Gnaph uli, Cxd, Sphag, Je, Cxn, Eri tet.
- ⑤ Bay with drawdown zone exposing old stone wall, peat with boulders, bedrock + old timber (bog wood); with Cxn, Rfl, Jb(T), Ags, Sphag, Cas, Ph, Gnaph uli, Glf, Hyd, Cah, Cxv + Cxn patches.
NB! Cah + Sphag in water.
- ⑥ Flinty gravel with stones, cobbles, boulders - drawdown zone approximately 30m with very occasional Jb(T); backed by Salix scrub over Cxn, Des flex, Ag, Mol cae, Myr gale, Canum ver, Ang syl, Rum acetosella, Cal vul, Vac myr.

⑦ Drawdown zone with large boulders, (peat) & stones and almost totally barren except for occasional patches of Poly min, Jb (T), Ph, Gf, Rf, Eqf, Efp, Cap, Pdy pers, Cas, Mon, Alop gen, Cxv, Cxn, Rum obt, Vp, Jbut* in wet hollows / runnels. Also Salix cin, Ran rep, Des flex, Spug aw, Mentha sp. at top of drawdown zone.

⑧ Extensive drawdown zone (60-80m) of mostly peat with boulders & exposed ancient timber, pools in peat. No vegetation on peat or in water! This area is backed by outcrops / boulder fields with Cxro, Cxn, Salix cin, Carex ver, Sphag, Rf, Hyd, Mol cas