

HY2202

Loch name Loch of Board House Island Mainland No. ##
 Grid Reference HY 270 260 Date surveyed 16.7.88
 Loch size 227.04 ha. Altitude 15-20 m Secchi disk depth ✓ m
 Water colour cloudy pale brown Loch level up ✓ cm down ? cm
 Adjacent wetland ✓
 Loch status ✓ Type 4

Substrate types

- | | |
|--|--|
| <input checked="" type="checkbox"/> Bedrock | <input checked="" type="checkbox"/> Sand (0.1-4mm diameter) |
| <input checked="" type="checkbox"/> Boulders (> 30cm max diameter) | <input checked="" type="checkbox"/> Silt (< 0.1mm diameter) |
| <input checked="" type="checkbox"/> Stones (5-30cm diameter) | <input checked="" type="checkbox"/> Organic mud (black and smelly) |
| <input checked="" type="checkbox"/> Gravel (4-50mm diameter) | Peat |
| | <input checked="" type="checkbox"/> Artificial embankment |

Uses and Damage

USE	AREA AFFECTED	DAMAGE
Water abstraction	<input checked="" type="checkbox"/> → <u>strawness. Drinking water source</u>	.....
Sewage inflow	<input checked="" type="checkbox"/>
Agricultural pollution	<input checked="" type="checkbox"/> <u>see map of substrate</u>	.....
Edge trampling: animals	<input checked="" type="checkbox"/> <u>locally edge</u>	.....
: people	.....	.....
Fishing	<input checked="" type="checkbox"/> <u>All loch</u>	.....
Shooting	.....	.....
Others	<u>Household rubbish</u>	.....

Fauna

- | | | | |
|----------------------------------|----------------------|-------------------------------|--------------------|
| Birds | Mammals | Molluscs | Dragonflies |
| <u>Snipe Red throated diver</u> | <u>otter spraint</u> | <u>Planorbis laevis</u> | |
| <u>Oyster catcher (breeding)</u> | | <u>Planorbis contortus</u> | |
| <u>Arctic Skua</u> | | <u>Lymnaea peregra</u> | |
| <u>Mallard</u> | | <u>Potamopyrgus jenkinsii</u> | |

Water chemistry

Water sample taken No. 2 Time spent on site 1 1/2 days x 4
 Conductivity 420 395 400 ^{25°C}
 Dates of samples 14.7.88 pH 8.58 9.00 8.62
inflow outflow jetty

Species checklist

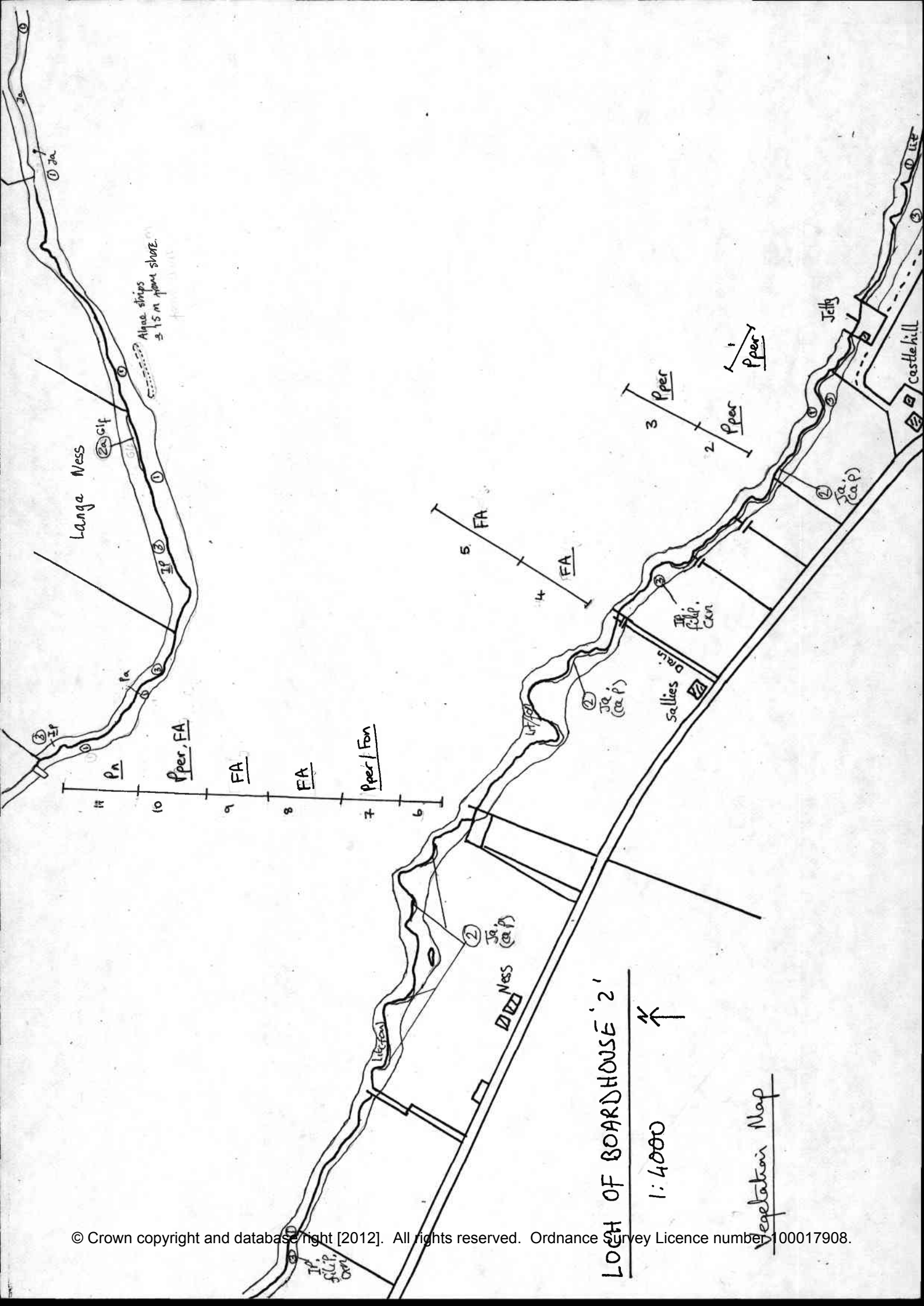
for .. BOARD HOUSE. Loch... HY. 2202 NO. V.

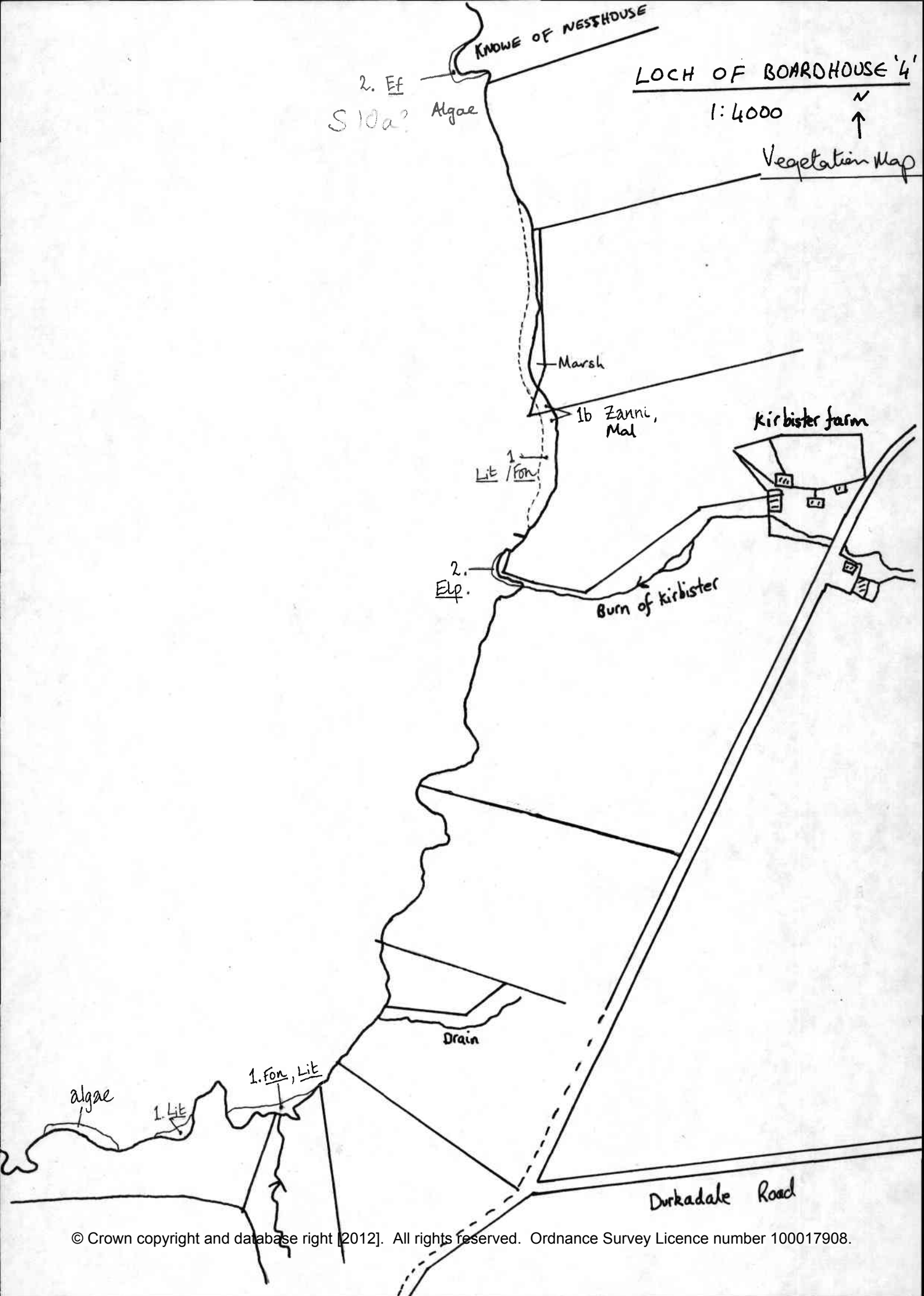
S9/11 S10/11

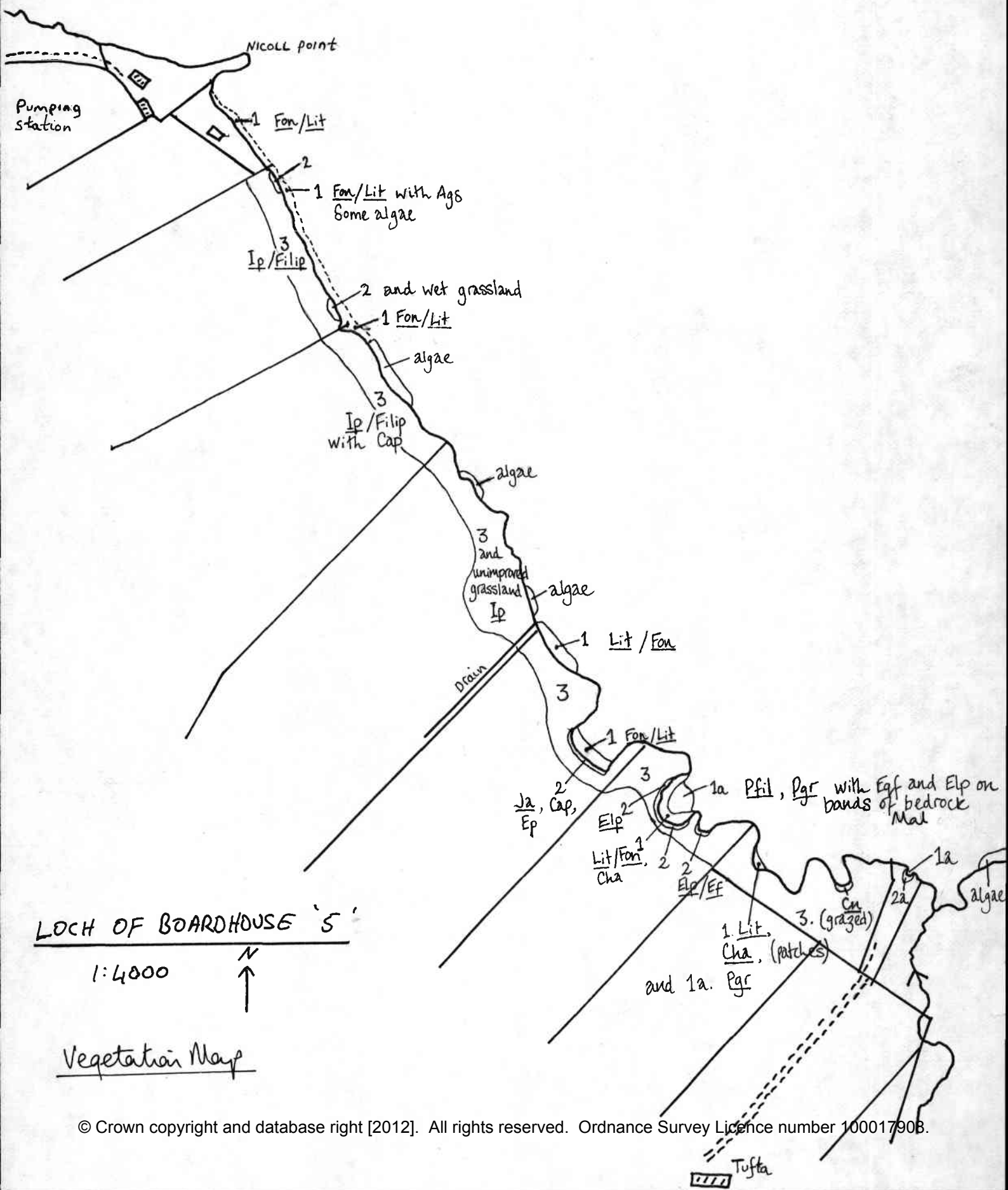
Map code	Species	DAFOR	Map code	Species	DAFOR
Ags	<u>Agrostis stolonifera</u> Edge	...F...	Pha	<u>Phragmites australis</u>	.....
Api	<u>Apium inundatum</u>	...R...	Pam	<u>Polygonum amphibium</u>	.....
Cah	<u>Callitriche hamulata</u>	.....	Pbe	<u>Potamogeton berchtoldii</u>	..O..
Cher	<u>Callitriche hermaphroditica</u>	...O?F...	Pcr	<u>Potamogeton crispus</u>	.....
Cpla	<u>Callitriche platycarpa</u>	.....	Pfil	<u>Potamogeton filiformis</u>	..O..
Cas	<u>Callitriche stagnalis</u>	.....	Pfr	<u>Potamogeton friesii</u>	.....
Cap	<u>Caltha palustris</u>	...F...	Pgr	<u>Potamogeton gramineus</u>	..F..
Cxn	<u>Carex nigra</u> Edge Marsh	...O?F...	Pn	<u>Potamogeton natans</u>	..O..
Cxro	<u>Carex rostrata</u>	.....	PXn	<u>Potamogeton X nitens</u>	.....
Elp	<u>Eleocharis palustris</u> Edge Marsh	...O-LA...	Pob	<u>Potamogeton obtusifolius</u>	.....
Era	<u>Eriophorum angustifolium</u>	.....	Ppec	<u>Potamogeton pectinatus</u>	..O..
GlF	<u>Glyceria fluitans</u>	..O..	Pper	<u>Potamogeton perfoliatus</u>	..F..
Hip	<u>Hippuris vulgaris</u> Edge Marsh	...O...F...	Ppol	<u>Potamogeton polygonifolius</u>	.....
Hyd	<u>Hydrocotyle vulgaris</u> Edge Marsh	...A...	Ppu	<u>Potamogeton pusillus</u> Edge Marsh	..R... ..lf...
Ip	<u>Iris pseudacorus</u> open water, edge, + Marsh	...F...	Pop	<u>Potentilla palustris</u>	.....
Ja	<u>Juncus articulatus</u>	.....	Ra	<u>Ranunculus aquatilis</u>	.....
Jb	<u>Juncus bulbosus</u>	.....	Rb	<u>Ranunculus baudotii</u>	.....
Je	<u>Juncus effusus</u>	.....	Rfl	<u>Ranunculus flammula</u>	..F..
Im	<u>Lemna minor</u>	.....	Rhe	<u>Ranunculus hederaceus</u>	.....
Lit	<u>Littorella uniflora</u>	..A..	Rtr	<u>Ranunculus trichophyllus</u>	.....
Ma	<u>Mentha aquatica</u>	...O..lf	Ris	<u>Rorippa islandica</u>	.....
Mt	<u>Menyanthes trifoliata</u> Marsh	...O..lf	Sf	<u>Scirpus fluitans</u>	.....
Mg	<u>Mimulus guttatus</u>	.....	S1	<u>Scirpus lacustris</u>	.....
Mon	<u>Montia fontata</u>	.....	St	<u>Scirpus tabernaemontani</u>	.....
Myl	<u>Myosotis laxa/caespitosa</u>	.....	Spa	<u>Sparganium angustifolium</u>	.....
Msc	<u>Myosotis scorpioides</u> Marsh	...F...	Spe	<u>Sparganium erectum</u> Edge Inflow	..O..
Mal	<u>Myriophyllum alterniflorum</u>	...R?...	Uti	<u>Utricularia intermedia</u>	.....
Msp	<u>Myriophyllum spicatum</u>	...O...	Um	<u>Utricularia minor</u>	.....
Nas	<u>Nasturtium officinale</u>	.....	Uva	<u>Utricularia vulgaris/australis</u>	.....
Pa	<u>Phalaris arundinacea</u>	...O...	Une	<u>Utricularia neglecta</u>	.....

Map code	Species	DAFOR	
Vb	Veronica beccabunga	.....	Zani. Zannichellia palustris..... LF
Vaa	Veronica anagallis-aquatica	.....	..... filamentous Algae..... LA
Vs	Veronica scutellata	.....	..... Epiphytic Algae..... LA
Ef	<u>Equisetum fluviatile</u> Edge	F.....	Age. Alopecurus geniculatus Edge. O.
Ep	<u>Equisetum palustre</u> Edge	F..... A-LD	.....
Cha	<u>Chara spp. globularis</u> sens lat.	F-LA	.....
Nit	Nitella spp.	.....	.....
Fon	<u>Fontinalis antipyretica</u>	.A..	.....

Charophyte identification
verified by J.M. Moore







LOCH OF BOARDHOUSE 'S'

1:4000



Vegetation Map

1. Open Water

The open water community on a gravel with stones substrate extends to a depth of 20-30cm. It is dominated by Littorella uniflora with intermittently occurring associates such as Caltha palustris, Fontinalis antipyretica, Juncus articulatus, Agrostis stolonifera and Chara sp. Epiphytic algae is locally abundant occurring usually near farms. Ranunculus flammula was seen to be flowering underwater indicating a recent water level rise.

1a Open water, in bays

This open water community extends to a water depth of 30cm. In the deep sheltered silty areas, Potamogeton gramineus, Potamogeton perfoliatus, Potamogeton filiformis and Potamogeton natans occur sometimes with Callitriche hermaphroditica, Myriophyllum spicatum and rarely Myriophyllum alterniflorum.

1b Open water/edge

At this trampled silty edge with cattle dung, Zannichellia palustris is locally frequent.

2. Edge

The edge vegetation is separated from the marsh by a 30cm cliff. The scattered and sparse community consists of Juncus articulatus, Eleocharis palustris, Equisetum palustre, Equisetum fluviatile, Phalaris arundinacea with occasional Mentha aquatica, Hydrocotyle vulgaris and Agrostis stolonifera. Where Equisetum fluviatile is dominant may be described as S10a Equisetum fluviatile community.

2a Edge

The edge community in the bayheads is dominated by Eleocharis palustris with Hydrocotyle vulgaris and merges with the marsh vegetation of Glyceria fluitans and Potentilla palustris (S19a Eleocharitetum palustris).

3. Marsh

The marsh community occurs as a grazed zone in semi-improved fields, or as a denser taller ungrazed zone at the edge of arable or improved fields. Most of the species occur in both grazed and ungrazed marsh.

The most abundant species are Carex nigra, Iris pseudacorus, Filipendula ulmaria, Eleocharis palustris, Agrostis stolonifera, Glyceria fluitans and Alopecurus geniculatus. The associated species include Equisetum fluviatile, Equisetum palustre, Myosotis scorpioides, Lychnis flos-cuculi, Dactylorhiza purpurella, Potentilla palustris and Ranunculus spp.

Boat Survey

1. Potamogeton perfoliatus, filamentous algae, Potamogeton pectinatus (Fontinalis antipyretica).
2. Potamogeton perfoliatus, filamentous algae, Fontinalis antipyretica.
3. Potamogeton perfoliatus, filamentous algae, Fontinalis antipyretica (Potamogeton pectinatus), Potamogeton gramineus.
4. Filamentous algae, Potamogeton perfoliatus, Fontinalis antipyretica.
5. Filamentous algae, Potamogeton perfoliatus, Fontinalis antipyretica, Chara sp.
6. Bedrock, (Potamogeton perfoliatus).
7. Potamogeton perfoliatus, Fontinalis antipyretica, (Potamogeton pectinatus).
8. Filamentous algae, Potamogeton gramineus.
9. Filamentous algae, (Potamogeton pectinatus, Potamogeton perfoliatus, Potamogeton berchtoldii).
10. Potamogeton perfoliatus, filamentous algae, Myriophyllum alterniflorum?
11. Potamogeton natans, filamentous algae, Potamogeton berchtoldii.
12. Potamogeton gramineus, Potamogeton perfoliatus.
13. Filamentous algae, Potamogeton gramineus, (Chara sp).
14. Fontinalis antipyretica, Chara sp, (Potamogeton pectinatus)
15. Fontinalis antipyretica, Chara sp, Potamogeton gramineus.
16. Potamogeton natans, Fontinalis antipyretica, Chara sp.
17. Filamentous algae, Chara sp, Potamogeton perfoliatus, Potamogeton berchtoldii, Fontinalis antipyretica, (Chara sp).
18. Potamogeton perfoliatus, Potamogeton pectinatus, Chara sp.
19. Chara sp, Potamogeton gramineus, Fontinalis antipyretica.
20. Chara sp, Potamogeton gramineus, Fontinalis antipyretica.
21. Potamogeton gramineus.
22. Potamogeton gramineus, Potamogeton perfoliatus, Chara sp, Fontinalis antipyretica.
23. Potamogeton gramineus, filamentous algae, Fontinalis antipyretica, (Chara sp).
24. Chara sp, Fontinalis antipyretica, filamentous algae.

25. Chara sp, Potamogeton gramineus, F antipyretica.
26. Potamogeton gramineus, Chara sp, F antipyretica.
27. P natans, P perfoliatus, P natans, Myriophyllum spicatum, Chara sp.
28. Potamogeton natans, Chara sp, Potamogeton gramineus, Myriophyllum spicatum.
29. Chara sp, Fontinalis antipyretica, M spicatum.