

Loch name ... Loch of Kirbister ... Island ... Mainland ... No. ... 132 ...
 Grid Reference HY370 080 ... Date surveyed ... 5th Sept. ...
 Loch size ... 100.0 ... ha. Altitude ... 20 ... m Secchi disk depth m
 Water colour Orange/brown Loch level up cm down 10-15 (20) cm
 Adjacent wetland ... sparse - best around inflows/outflows ...
 Loch status Type 2A ..

Substrate types

Bedrock	✓	Sand	(0.1-4mm diameter) ✓
Boulders	(> 30cm max diameter) ✓	Silt	(< 0.1mm diameter) ✓
Stones	(5-30cm diameter) ✓	Organic mud	(black and smelly)
Gravel	(4-50mm diameter) ✓	Peat	
		Artificial embankment	✓

Uses and Damage

USE		AREA AFFECTED	DAMAGE
Water abstraction	✓	<u>Drinking water source for Ophir area</u>	.....
Sewage inflow	.....	.....	.....
Agricultural pollution	.....	.....	.....
Edge trampling: <u>animals</u>	✓	.....	.....
: people	.....	.....	.....
Fishing	.....	.....	.....
Shooting	.....	.....	.....
Others	.....	.....	.....

Fauna

Birds	Mammals	Molluscs	Dragonflies
<u>moorhen</u>		<u>Lymnaea peregrina</u>	
<u>Redshank</u>		<u>Planorbis contortus</u>	
<u>Snipe</u>			
<u>Swans (2)</u>			

Water chemistry

Water sample taken No. 2 ... Time spent on site ... 2hr x 3 ...
 Conductivity 395 390

Inflow (N) Outflow (S)

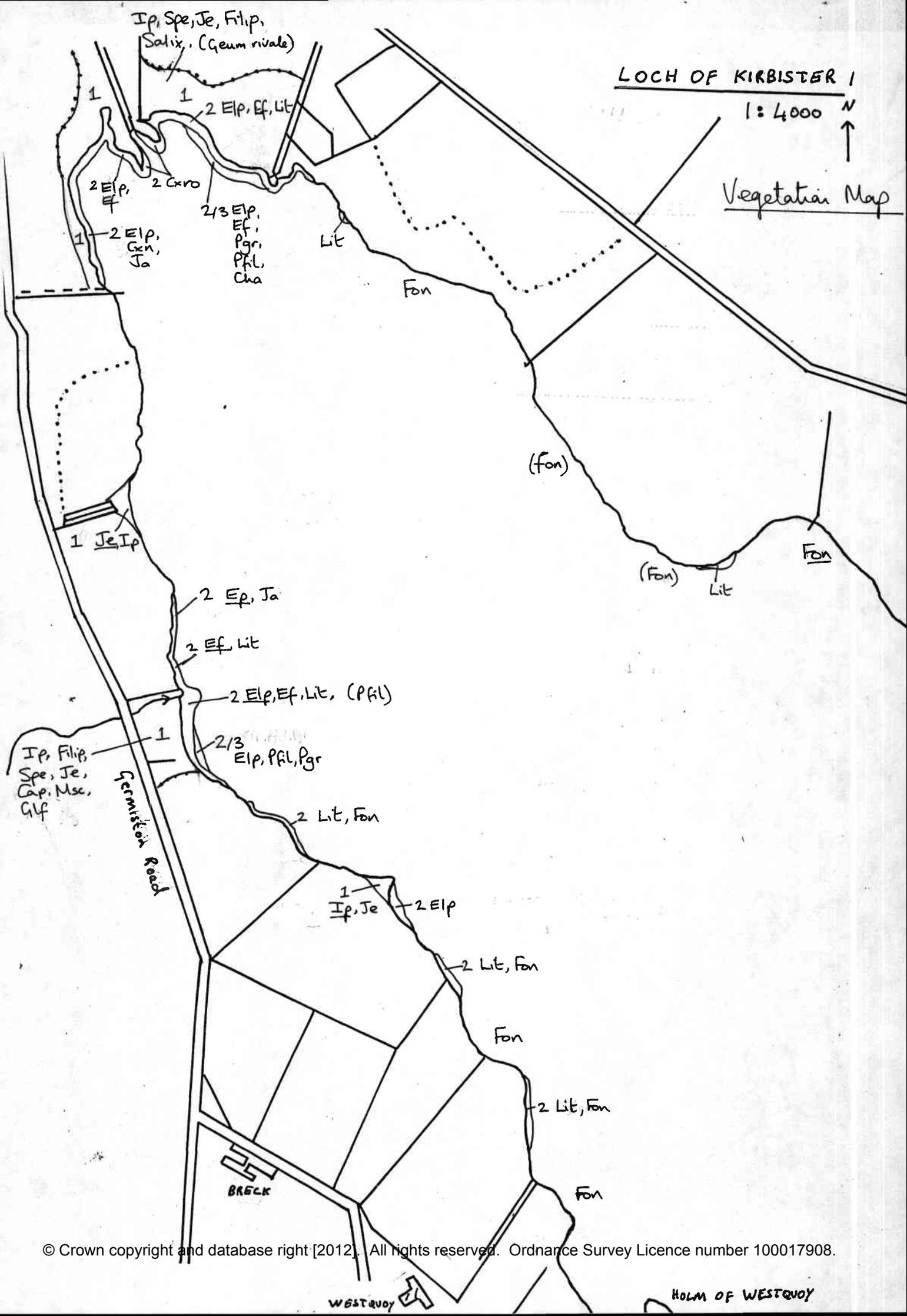
Species checklist for ... Loc. of KIRBISTER..... NO. VIII b

S19/11

Map code	Species	DAFOR	Map code	Species	DAFOR
Ags	<u>Agrostis stolonifera</u> Marsh	.F...	Pha	<u>Phragmites australis</u>	.....
Api	<u>Apium inundatum</u>	.....	Pam	<u>Polygonum amphibium</u> Marsh	..R.
Cah	<u>Callitriche hamulata</u>	.....	Pbe	<u>Potamogeton berchtoldii</u>	.....
Cher	<u>Callitriche hermaphrodita</u>	.....	Pcr	<u>Potamogeton crispus</u>	.....
Cpla	<u>Callitriche platycarpa</u>	.....	Pfil	<u>Potamogeton filiformis</u>	..LF..
Cas	<u>Callitriche stagnalis</u> Marsh	..O...	Pfr	<u>Potamogeton friesii</u>	.....
Cap	<u>Caltha palustris</u> edge Marsh	..F...	Pgr	<u>Potamogeton gramineus</u> washed up	..LF. A.
Cxn	<u>Carex nigra</u> edge Marsh	..F...	Pn	<u>Potamogeton natans</u>	.....
Cxro	<u>Carex rostrata</u> edge Marsh	..LF..	PXn	<u>Potamogeton X nitens</u>	.....
Elp	<u>Eleocharis palustris</u> edge	..LF..	Pob	<u>Potamogeton obtusifolius</u>	.....
Era	<u>Eriophorum angustifolium</u> Marsh	..O...	Ppec	<u>Potamogeton pectinatus</u> washed up O.	.....
GlF	<u>Glyceria fluitans</u> edge/marsh	..O...	Pper	<u>Potamogeton perfoliatus</u>	.....
Hip	<u>Hippuris vulgaris</u>	.....	Ppol	<u>Potamogeton polygonifolius</u>	.....
Hyd	<u>Hydrocotyle vulgaris</u> Marsh	..F...	Ppu	<u>Potamogeton pusillus</u>	.....
Ip	<u>Iris pseudacorus</u> Marsh	..LD	Pop	<u>Potentilla palustris</u> Marsh	..LA.
Ja	<u>Juncus articulatus</u> edge/Marsh	..F...	Ra	<u>Ramunculus aquatilis</u>	.....
Jb	<u>Juncus bulbosus</u>	.....	Rb	<u>Ramunculus baudotii</u>	.....
Je	<u>Juncus effusus</u> Marsh	..LA..	Rf1	<u>Ramunculus flammula</u> Marsh	..O...
Lm	<u>Lemna minor</u>	.....	Rhe	<u>Ramunculus hederaceus</u>	.....
Lit	<u>Littorella uniflora</u> edge	..LF..	Rtr	<u>Ramunculus trichophyllus</u>	.....
Ma	<u>Mentha aquatica</u> Marsh	..F...	Ris	<u>Rorippa islandica</u>	.....
Mt	<u>Menyanthes trifoliata</u>	.....	Sf	<u>Scirpus fluitans</u>	.....
Mg	<u>Mimulus guttatus</u> Marsh	..O...	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	..O...	Spe	<u>Sparganium erectum</u> Marsh	..LA..
Mal	<u>Myriophyllum alterniflorum</u>	.....	Uti	<u>Utricularia intermedia</u>	.....
Msp	<u>Myriophyllum spicatum</u>	.....	Um	<u>Utricularia minor</u>	.....
Nas	<u>Nasturtium officinale</u> mflow	..R...	Uva	<u>Utricularia vulgaris/australis</u>	.....
Pa	<u>Phalaris arundinacea</u> Marsh	..O...	Une	<u>Utricularia neglecta</u>	.....

Map code	Species	DAFOR	
Vb	Veronica beccabunga	.....	..... Geum rivale Marsh LF
Vaa	Veronica anagallis-aquatica	.....	..... Salix sp. LF
Vs	Veronica scutellata	.....	.....
Ef	Equisetum fluviatile	Edge LF Marsh .O..	..... Veronica anagallis aquatica Marsh
Ep	Equisetum palustre	Edge LF... .	..... Cardamine sp.
Cha	Chara spp. globularis var virgata	..LF..	..... Angelic... sylvestris Marsh
Nit	Nitella spp.	.....	..... Senecio aquaticus
Fon	Fontinalis antipyretica	.A-D	..... Lychnis fls: cuculi Marsh Geum rivale

Charophyte identification
verified by J.M. Moore



Vegetation Map

LOCH OF KIRBISTER 2

1:4000



Fon
Lit, EA
(Cha)

Fon

Fon
Lit

1
Ip
Filip,
Je

Fon
Lit

EA

(Fon)
Fon
(Lit)

(Lit)

Fon

Fon

Fon

(Fon)

1 Filip,
Ip, Cap,
Pa

(Fon)

(Fon)

HOLM OF GROUNDWATER

1
Ip
Je

Ja

Filip

Fon

(Fon)

(Fon)

(Fon)

1 Ip, Filip, Ags

(Fon)

Filip, Ip, Pa

Filip

(Fon)

Pump House

PIER

Fon

1 Filip, Angelica

Fon

(Fon)

Filip, Ip,
Gen, Salix
aurita

(Fon)

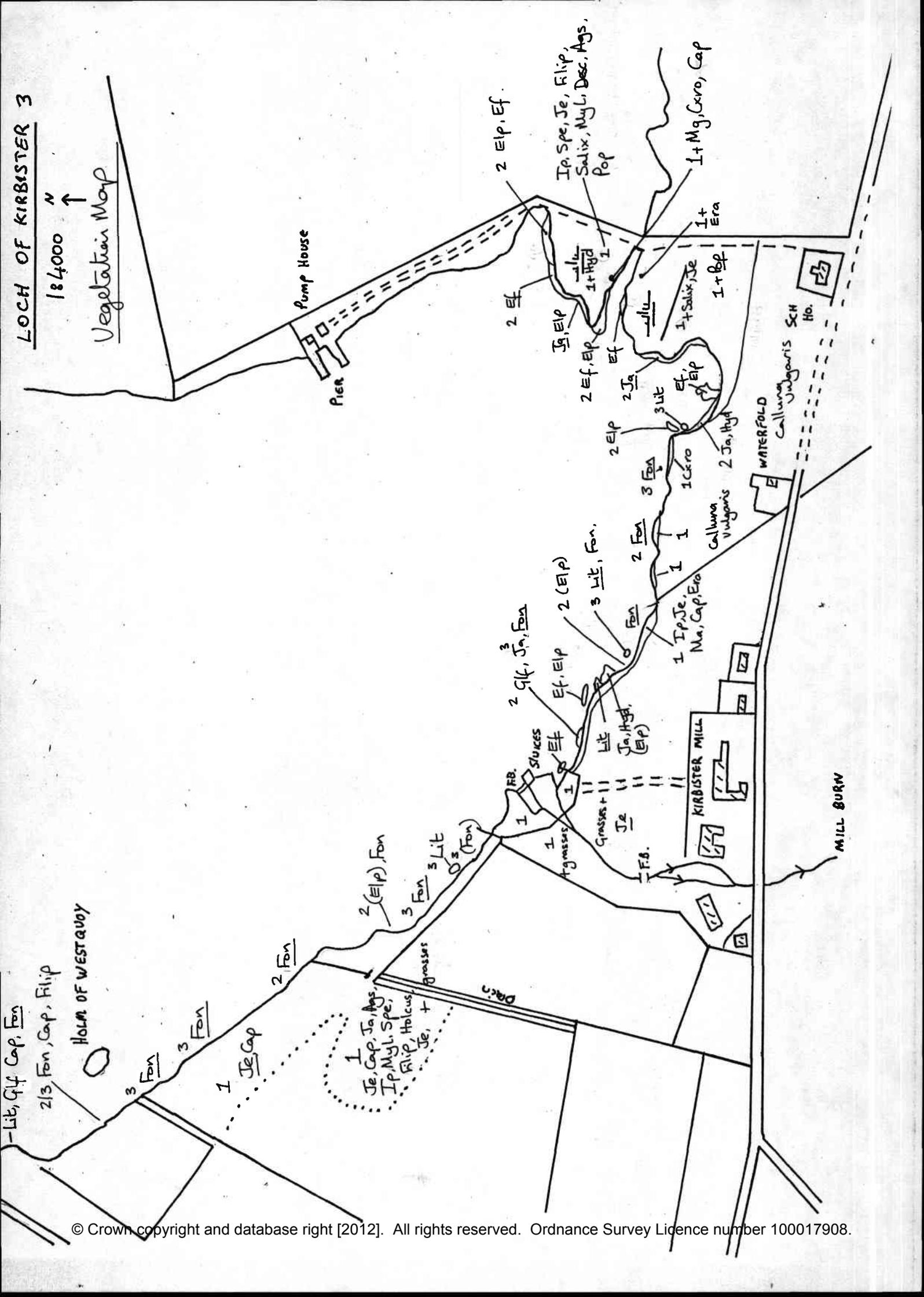
(Lit)

2 E Ip

LOCH OF KIRBISTER 3

184000 N

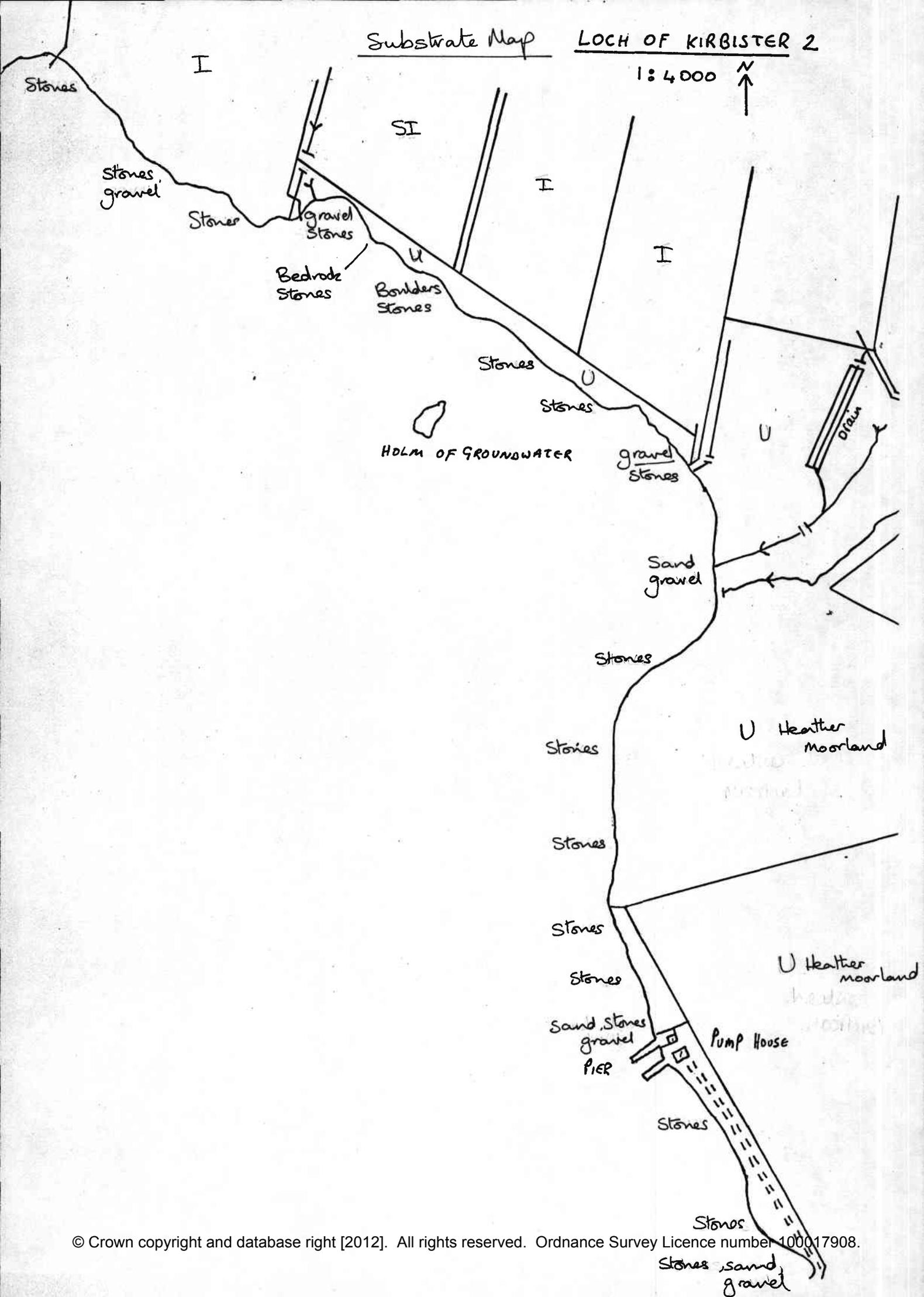
Vegetation Map

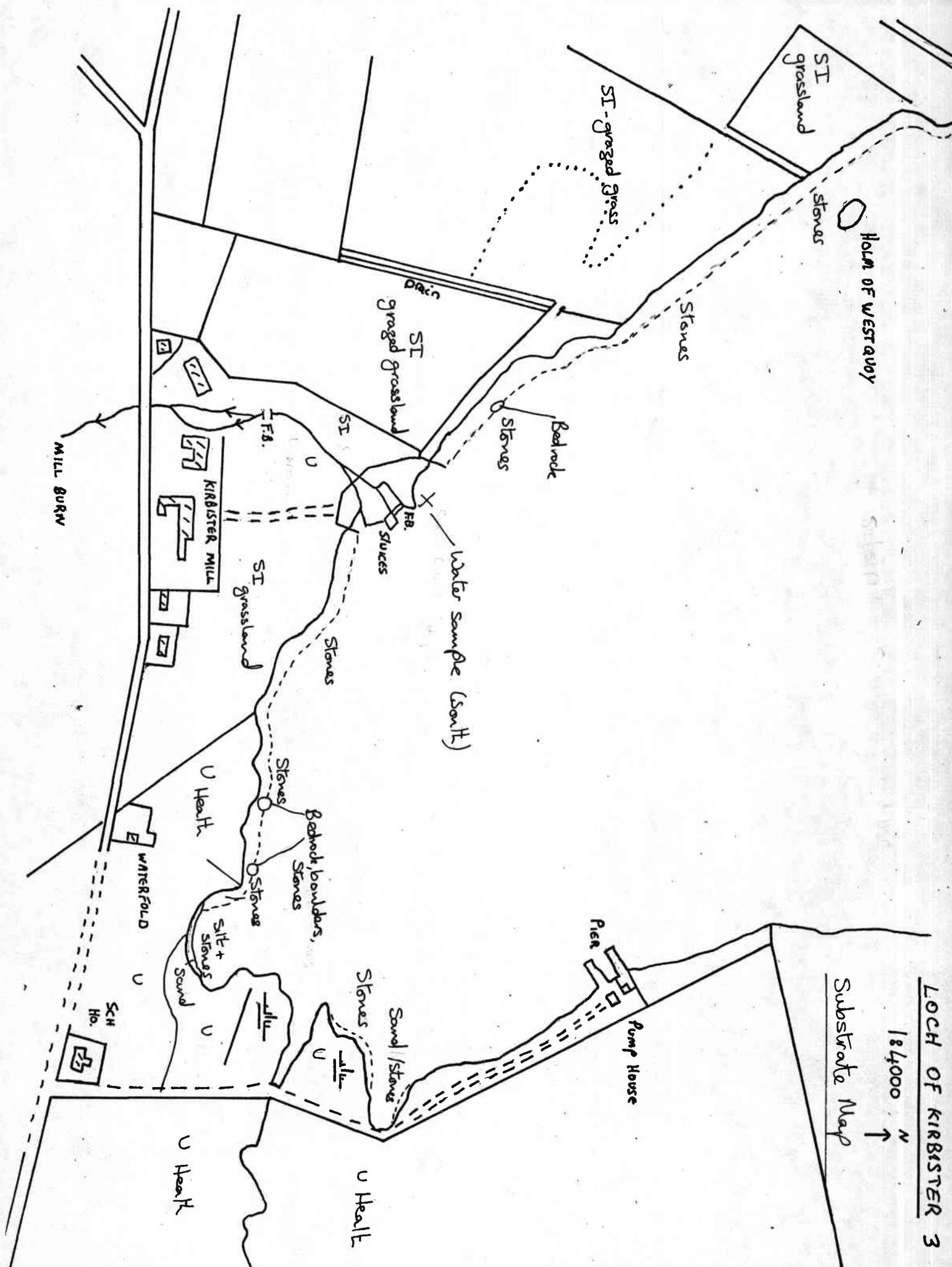


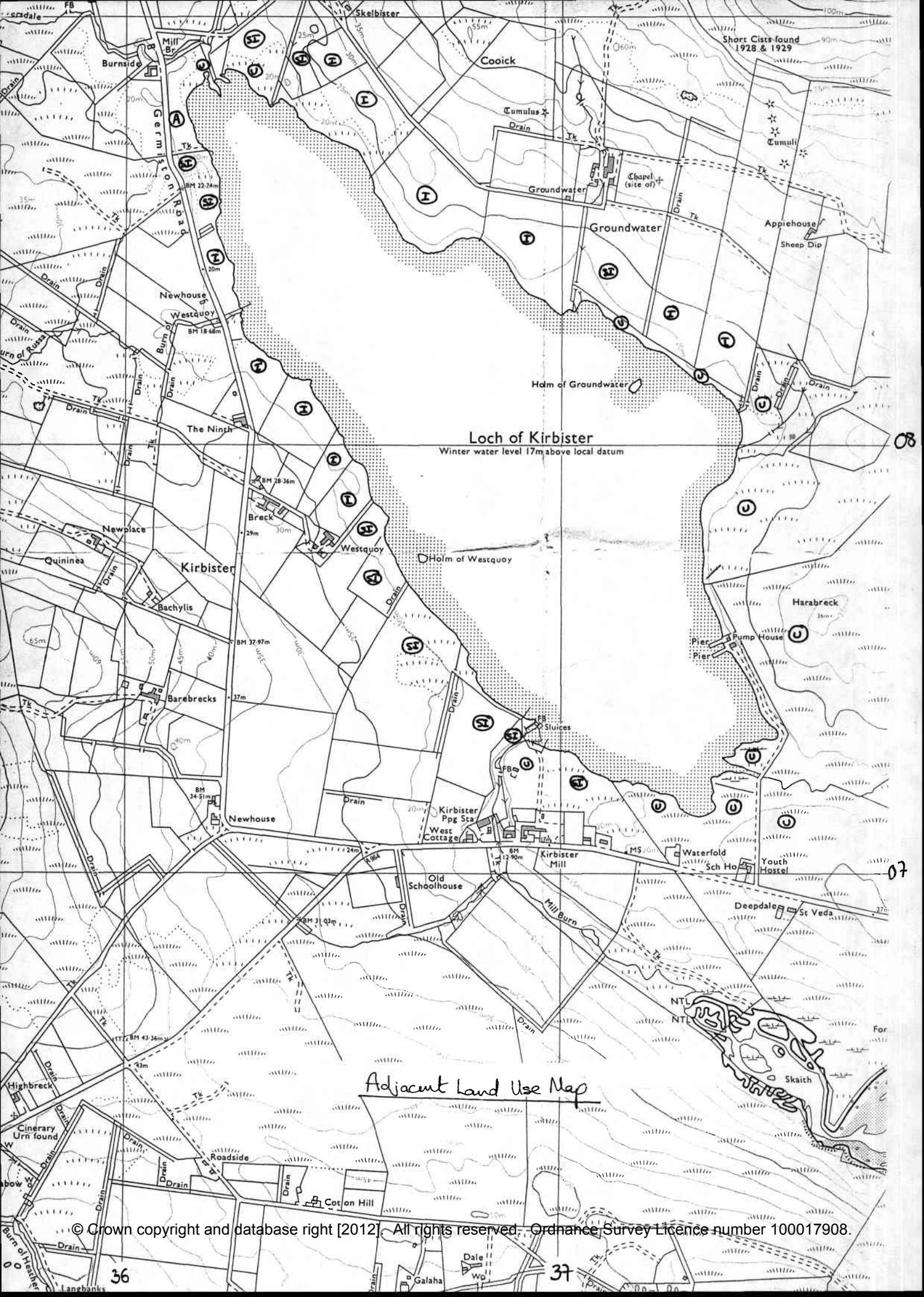
Substrate Map

LOCH OF KIRBISTER 2

1:4000







Loch of Kibister
Winter water level 17m above local datum

Adjacent Land Use Map

Plant Communities

1. Marsh,

The marsh community is sparse around much of the loch with the exception of the inflow and outflow areas. Steep grass banks extending up to the loch edge is common.

The community is dominated by Iris pseudacorus, Sparganium erectum, Filipendula ulmaria and Juncus effusus. Other associated species include Phalaris arundinacea, Mentha aquatica, Myosotis scorpioides, Angelica sylvestris, Juncus articulatus, Carex nigra, Hydrocotyle vulgaris, Senecio aquaticus, Lychnis flos-cuculi, Mimulus guttatus, Geum rivale and Polygonum amphibium. Nasturtium officinale, Cardamine sp (flexuosa?), and Veronica anagallis aquatica are confined to the inflow area.

2. Edge.

The edge community is very sparse. Eleocharis palustris, Equisetum fluviatile, Caltha palustris, Glyceria fluitans, Carex nigra and Juncus articulatus occur occasionally. Small areas of S19a occur (Eleocharitetum palustris).

2/3 Edge/Open Water.

Very occasional Eleocharis palustris and Equisetum fluviatile occur with Potamogeton gramineus, P. filiformis and Chara sp.

3. Open Water.

The open water community is dominated by Fontinalis antipyretica with Littorella uniflora, Chara spp, and Potamogeton pectinatus.