

1987 SUTHERLAND/CAITHNESS LOCH SURVEY

ND 619

Loch name CALDER Estate ... No. BN3.

Grid reference ND 072 603.

Date surveyed 17TH SEPTEMBER 1987Loch size 3.83:51 ha. Altitude m Surveyor's name S. BELL
Parchment size 26.80:0 ha. R.A. DALTON

Water colour Colourless

Water clarity Clear

Loch type IX (3b) Catchment Geology OLD RED SANDSTONE
No obvious edge type stands of SG/Z & S19/2 or S10/2 occur.* SEVERAL OWNERS, CONTACT VIA L. CALDER FISHING ASSOCIATION OR HARPER'S FISHING
SHOP, SINCLAIR ST. : THURSO.Substrate types (underline main type
tick others present)

✓ Sand (0.1 - 4mm diam.)

✓ Bedrock

✓ Silt (< 0.1mm diam.)

✓ Boulders (>30cm max diam.)

✓ Organic mud

✓ Stones (5-30cm diam.)

✓ Peat

✓ Gravel (4-50mm diam.)

Clay

Artificial embankment

Uses and Damage

USE

AREA AFFECTED

DAMAGE

Water abstraction

✓

... see map... HRC Water Supply

Sewage inflow

....

.....

.....

Agricultural pollution

.....

.....

Edge trampling by
livestock

....

north-west shore - cattle present

.....

Forestry - vehicles

.....

.....

- run off

....

On west shore - possibly some run off

Fishing (Edge/boat)

....

Boats available for hire from contact address above...

Shooting (Cartridges)

....

Possibly in SW corner...

.....

Others

....

.....

.....

Fauna

Birds

Mammals

Molluscs

Dragonflies

Mallard
Grey lag geese
Redshank
Lapwing
SnipeSympetrum danae
Aeshna juncea

Inlet

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Edge: ... 20 ...

Conductivity: ... 20 ... mmhos/cm

Open Water 11... Total 29 species.

pH : 7.3 (Griffin 60) 7.3

T₀ 11.5 8.5°C

CALDER

Site name Gr ND 072 603 No. BN3

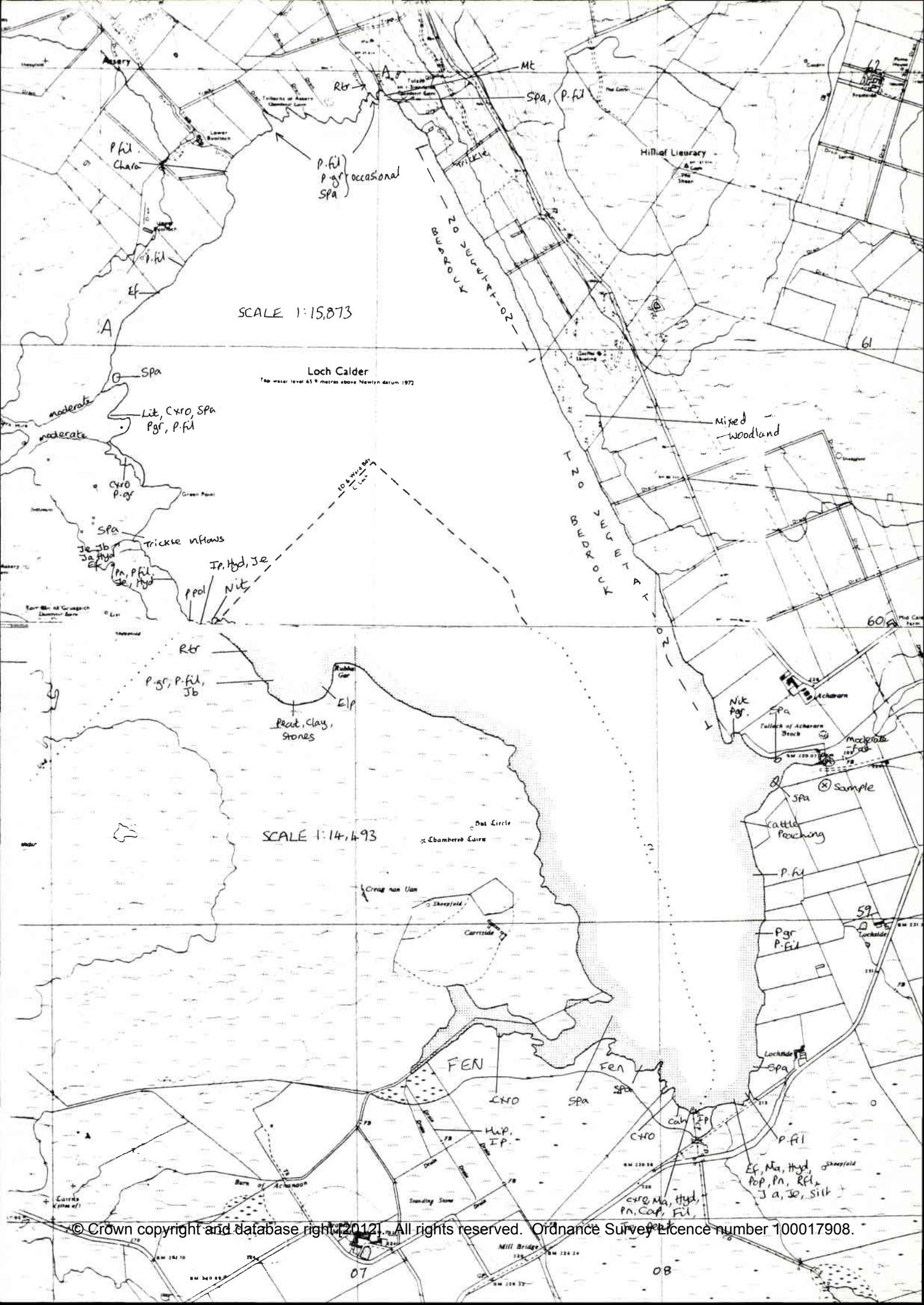
SUBMERGED AND FLOATING SPECIES

Map code		DAFOR		
Api	<i>Apium inundatum*</i>	Pper	<i>Potamogeton perfoliatus</i>
✓ Cah	<u><i>Callitrichie hamulata</i></u>	○	Ppra	<i>Potamogeton paelongus**</i>
Cher	<i>Callitrichie hermaphroditica**</i>	✓ Ppol	<u><i>Potamogeton polygonifolius</i></u>
Cpla	<i>Callitrichie platycarpa</i>	....	Ppu	<i>Potamogeton pusillus*</i>
✓ Cas	<u><i>Callitrichie stagnalis</i></u>	LF	Ra	<i>Ranunculus aquatilis</i>
✓ Hip	<u><i>Hippuris vulgaris</i></u>	0...	✓ Rtr	<u><i>Ranunculus trichophyllum</i></u>
Hyd	<i>Hydrocotyle vulgaris</i>	....	Sf	<i>Scirpus fluitans</i>
Isl	<i>Isoetes lacustris</i>	....	✓ Spa	<u><i>Sparganium angustifolium</i></u>
Iss	<i>Isoetes setacea **</i>	Sub	<i>Subularia aquatica**</i>
✓ Jb	<u><i>Juncus bulbosus var. fluitans</i></u>	○	Uti	<i>Utricularia intermedia</i>
Lm	<i>Lemna minor (* in NW)</i>	....	Um	<i>Utricularia minor</i>
Lit	<i>Littorella uniflora</i>	....	Uva	<i>Utricularia vulgaris/australis</i>
Mal	<i>Myriophyllum alterniflorum</i>	....	Une	<i>Utricularia neglecta</i>
Msp	<i>Myriophyllum spicatum</i>	....	Zan	<i>Zannichellia palustris</i>
Na	<i>Nymphaea alba</i>	....	Cha	<i>Chara sp</i>
Nup	<i>Nuphar pumila</i>	....	✓ Nit	<u><i>Nitella sp *</i></u>
Pil	<i>Pilularia globulifera**</i>	Fon	<i>Fontinalis antipyretica</i>
Pam	<i>Polygonum amphibium</i>	....	Lob	<i>Lobelia dortmanna</i>
Pal	<i>Potamogeton alpinus</i>	....	<u><i>* N. flexilis var. flexilis</i></u>	
Pbe	<i>Potamogeton berchtoldii</i>	....	.....
Pcr	<i>Potamogeton crispus*</i>	
✓ Pfil	<u><i>Potamogeton filiformis**</i></u>	LA	Charophyte identification verified by J.M. Moore	
Pfr	<i>Potamogeton friesii**</i>		
✓ Pgr	<u><i>Potamogeton gramineus</i></u>	LA		
✓ Pn	<u><i>Potamogeton natans</i></u>	○		
Pxn	<i>Potamogeton X nitens</i>	....	
Pob	<i>Potamogeton obtusifolius</i>	....	
Ppec	<i>Potamogeton pectinatus</i>	....	

Site name CALDER Gr ND 072 603 No. BNS

EMERGENT AND EDGE SPECIES:

Map code	DAFOR	
Ags	<i>Agrostis stolonifera</i>	.....
✓Cap	<i>Caltha palustris</i>	O
Cxa	<i>Carex aquatilis**</i>
Cxl	<i>Carex lasiocarpa</i>	.....
Cxli	<i>Carex limosa</i>	.....
✓Cxn	<i>Carex nigra</i>	LA
✓Cxro	<i>Carex rostrata</i>	LD
Cxv	<i>Carex vesicaria</i>	.....
✓Elp	<i>Eleocharis palustris</i>	LF
✓Era	<i>Eriophorum angustifolium</i>	LA
✓Glf	<i>Glyceria fluitans</i>	O
✓Hip	<i>Hippuris vulgaris</i>	O/LF
✓Hyd	<i>Hydrocotyle vulgaris</i>	A
✓Ip	<i>Iris pseudacorus</i>	O
✓Ja	<i>Juncus articulatus</i>	O
✓Jb	<i>Juncus bulbosus</i>	O
✓Je	<i>Juncus effusus</i>	LA
✓Lit	<i>Littorella uniflora</i>	LF
Lyc	<i>Lycopodiella inundata**</i>
Lyp	<i>Lythrum portula</i>	.....
✓Ma	<i>Mentha aquatica</i>	LA
✓Mt	<i>Menyanthes trifoliata</i>	LA - 1 patch
Mg	<i>Mimulus guttatus</i>	.....
Mon	<i>Montia fontana</i>	.....
✓My1	<i>Myosotis laxa/caespitosa</i>	F
Msc	<i>Myosotis scorpioides</i>	.....
Nas	<i>Nasturtium officinale</i>	.....
Pa	<i>Phalaris arundinacea</i>	.....
Pha	<i>Phragmites australis</i>	.....
Pam	<i>Polygonum amphibium</i>	.....
✓Pop	<i>Potentilla palustris</i>	F
✓Rfl	<i>Ranunculus flammula</i>	O
Ris	<i>Rorippa islandica</i>	.....
S1	<i>Scirpus lacustris</i>	.....
Sper	<i>Sparganium erectum</i>	.....
Spem	<i>Sparganium emersum</i>	.....
Vb	<i>Veronica beccabunga</i>	.....
Vaa	<i>Veronica anagallis-aquatica*</i>
✓Vs	<i>Veronica scutellata</i>	O
✓Ef	<i>Equisetum fluviatile</i>	LF
Ep	<i>Equisetum palustre</i>	.....
Fil	<i>Filipendula ulmaria</i>	LA
.....	<i>Salix auriculata</i>	R
.....	<i>Galium palustre</i>	LA
.....	<i>C. demissa</i>	O
.....	<i>C. paniculata</i>	LF
.....	<i>Achillea ptarmica</i>	O
.....	<i>Senecio aquaticus</i>	O
.....	<i>Epilobium palustre</i>	O
.....	<i>Angelica sylvestris</i>	O
.....	<i>Pedicularis palustris</i>	O



LOCH CALDER GR: ND 072603 N^O BN3 17.09.1987

Several areas of species rich marsh and fen occurred producing the high species diversity for the loch. The vegetation was unevenly distributed and much of the exposed eastern shore was barren of plant life.

The areas marked Fen A on the map occur on the North and North western shores. Main species present include Juncus effusus, Mentha aquatica, Hydrocotyle vulgaris, Juncus articulatus, Potentilla palustris, Caltha palustris, Galium palustre, Eriophorum angustifolium, Myosotis caespitosa, Veronica scutellata, Carex rostrata, Ranunculus flammula, Equisetum fluviatile, Pedicularis palustris, Eleocharis palustris, Senecio aquaticus, Epilobium palustre, Juncus bulbosus, and Glyceria fluitans. Potamogeton gramineus occurs frequently stranded on the mud.

These species are also present in the fen area occurring at the southern end of the loch, with the addition of Hippuris vulgaris. Several drainage ditches dissect this area.

The area of shore between Rubha Gar to the North shore of the inlet at Brawlin Mains was not Surveyed.