

MAP 52: EASTHOW CREEK TO POWFOOT

Hinterland Geology and Coastal Geomorphology: This section of coastline overlooks Priestside Bank which is a wide expanse of mud flats. Eastwards towards Powfoot, marine deposits overlie coarse clay deposits. The featureless hinterland is below 10m O.D. A margin of salt-marsh overlooks the low mud-flats.

Erosion Class: The coastal-edge eastwards to Powfoot is stable owing to the presence of salt-marsh vegetation. Sediment loss is likely to be high when flooding is extreme. The coastal edge in front of Powfoot is suffering intense erosion. The cliff section is soft sand and gravels and attempts to consolidate it with concrete sea walls has failed. Boulders and concrete are strewn along the foreshore which is leading to further abrasion at the base of the low cliff-edge.

Built Heritage & Archaeology: Powfoot harbour is recorded in the NMRS in this section. However, no remains of a harbour could be found in the field survey.

Map 52: Hinterland Geology and Coastal Geomorphology

1. South of MID UPPER PRIESTSIDE to
POWFOOT

NY 125 650

5km

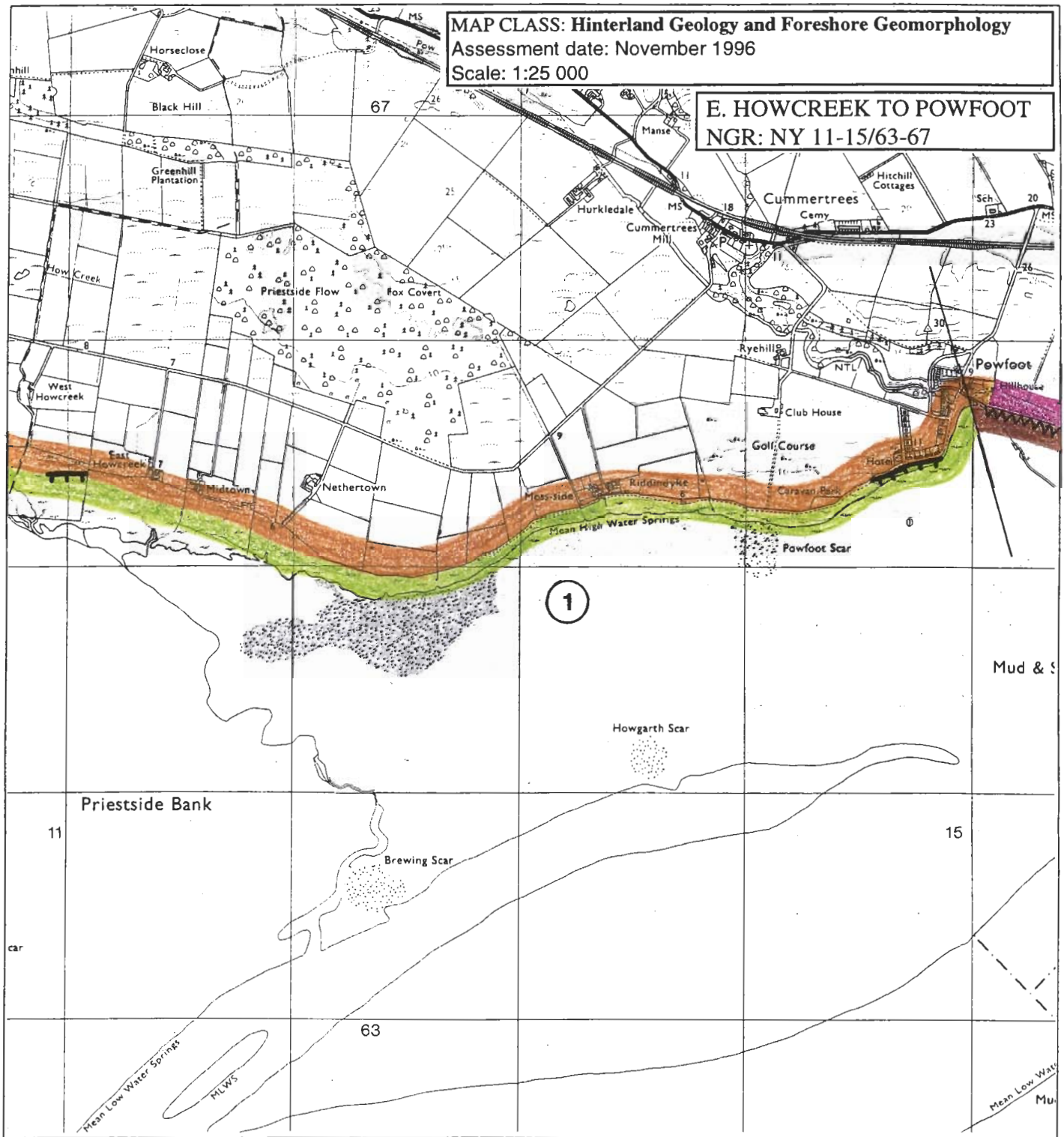
Low edge (< 5m)

Marine sands and gravels over carse clays

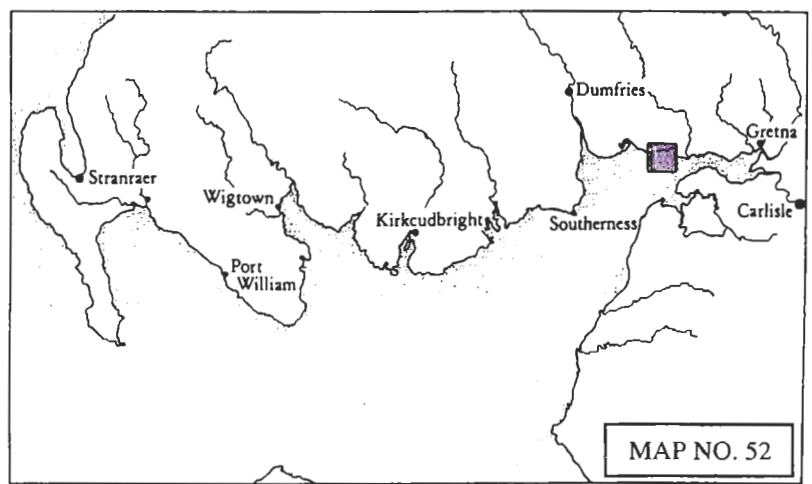
Lower estuary of the River Eden. The hinterland consists of low lying marine sands and gravels over Carse clays. The shoreline is mainly salt-marsh which skirts boulder beds and tidal mud flats.

MAP CLASS: Hinterland Geology and Foreshore Geomorphology
 Assessment date: November 1996
 Scale: 1:25 000

E. HOWCREEK TO POWFOOT
 NGR: NY 11-15/63-67



| Hinterland Geology | Derwent Code | Colour |
|---------------------------------------|------------------------|--------|
| Drift, boulder clay | French Grey | |
| Drift, boulder clay over visible rock | Dark Violet | |
| Raised beach and marine deposits | Golden Brown | |
| Blown sand | Pink Madder Lake | |
| Glacial sand and gravel | Magenta | |
| Alluvium | Emerald Green | |
| Coastal Geomorphology | | |
| Mainly rock platform | Deep vermilion | |
| Mainly sand | Ultramarine | |
| Mainly alluvial/marine mud | Venetian Red | |
| Marsh | May Green | |
| Coast Edge | | |
| Low edge (<5m) | Thin black line | |
| Cliff (>5m) | Solid black line | |
| Man made barrier | Black line with spines | |
| Shingle beach | Small circles | |
| Human disturbance | Black carats | |



MAP 52: EROSION

1. South of EAST UPPERPRIEST SIDE to
POWFOOT
NY 125 650
5.4k

Eroding or stable

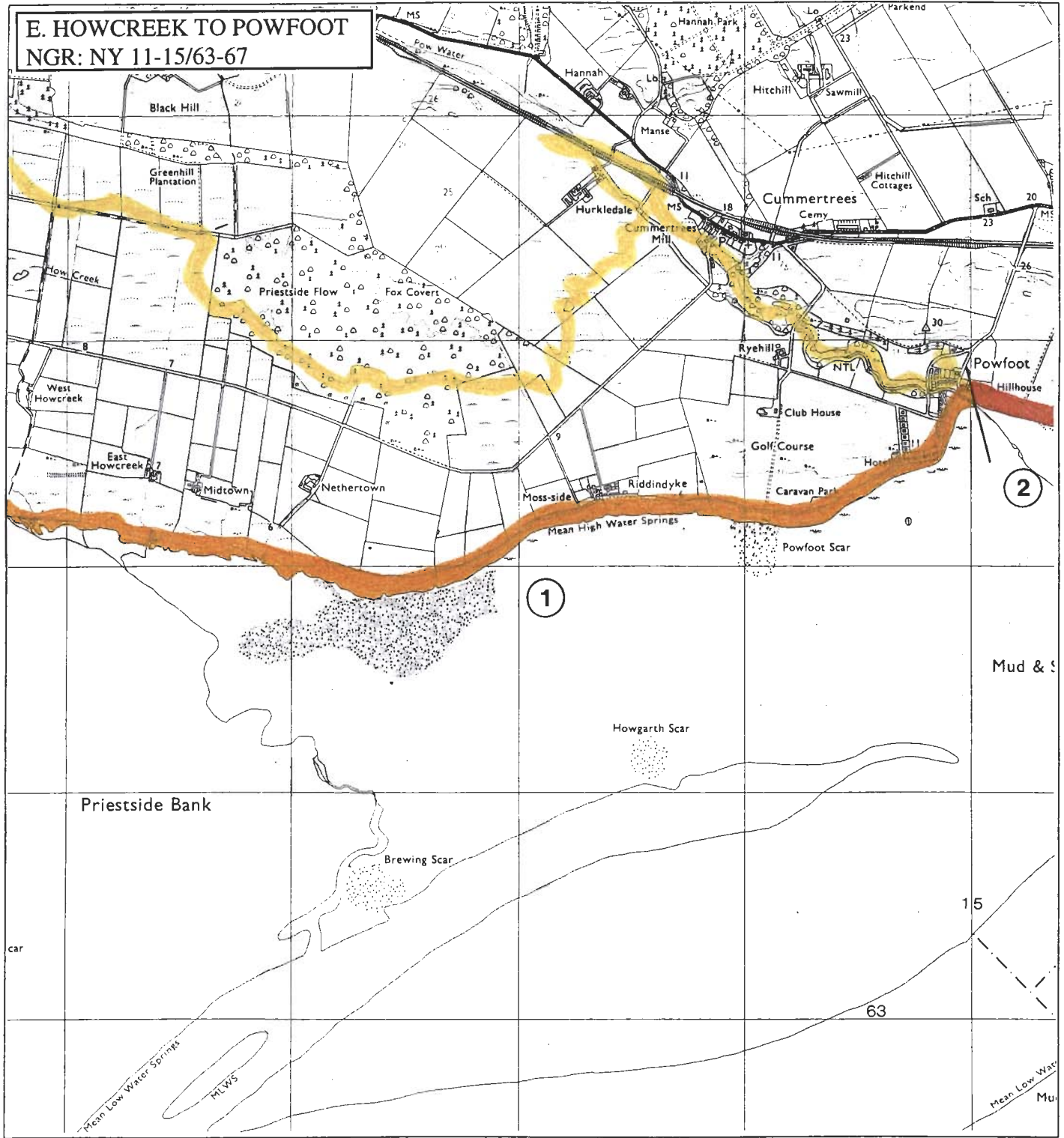
Flat low intertidal area with mud flats and shingle beds that are eroding at the MHW. The coastal edge is broken in parts by drainage channels that are stabilised by saltmarsh vegetation.

2. POWFOOT to BARNKIRK POINT
NY 183 464
4.5km

Definitely eroding

This unit has a very unstable coastline effected by storm damage. The cliff section c. 200 east of Hillhouse (NY 162658) shows evidence for severe erosion and slope failure. Concrete and builders rubble have been used to consolidate the cliff but this is failing badly. Concrete and brick debris is scattered along wide stretches of this soft coastline.

E. HOWCREEK TO POWFOOT
NGR: NY 11-15/63-67



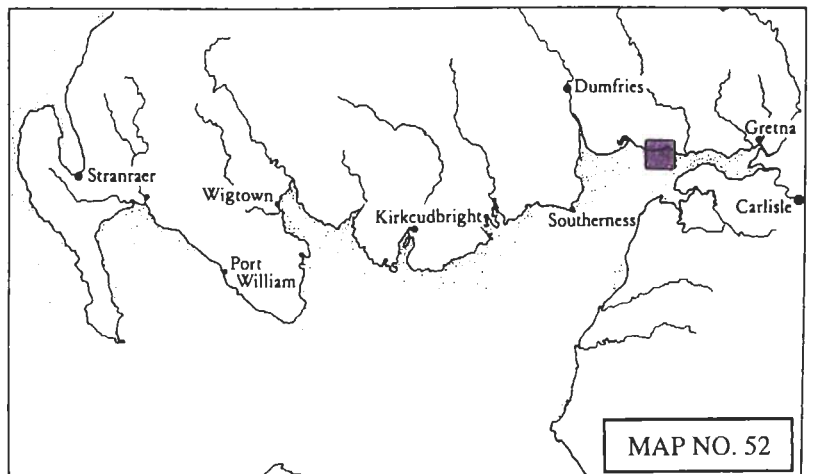
KEY

| Erosion class | Derwent Code | Colour |
|----------------------------|-----------------|--------|
| Definitely accreting | Prussian Blue | |
| Accreting/stable | Light Blue | |
| Stable | Grass Green | |
| Stable/eroding | Deep Chrome | |
| Definitely eroding | Deep Vermilion | |
| Both accreting and eroding | Imperial Purple | |
| No access | Blank | |
| Land below 10m | Straw Yellow | |

MAP CLASS: EROSION

Assessment date: 08.10.96

Scale 1:25 000



MAP NO. 52

MAP 52: BUILT HERITAGE AND ARCHAEOLOGY

Sites on the Coast Edge & Foreshore

NY16NE 27
NY 1500 6570
POWFOOT HARBOUR
Harbour
Uncertain
Uncertain; not located
Nil

Sites in the Hinterland

None

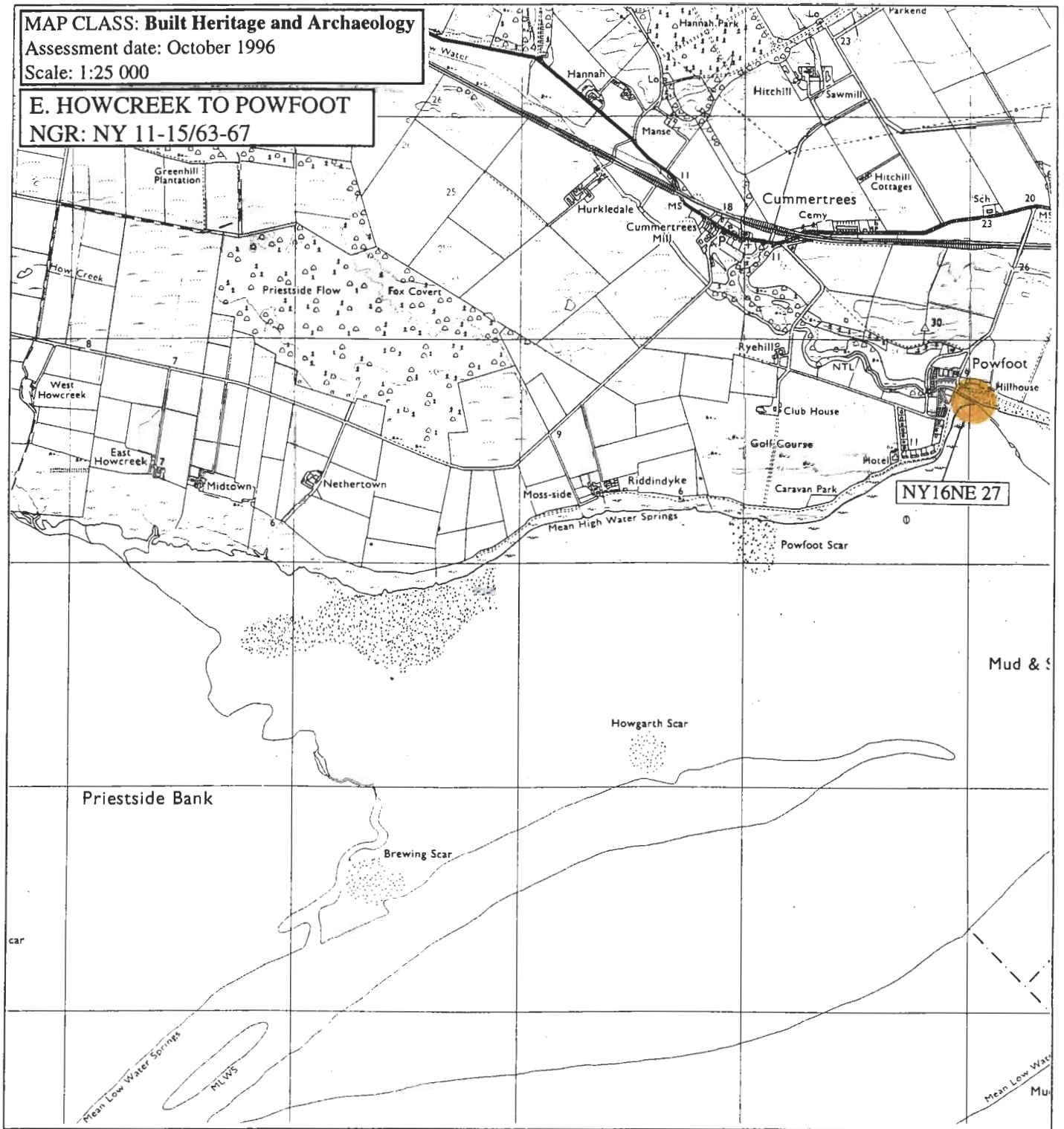
MAP CLASS: Built Heritage and Archaeology

Assessment date: October 1996

Scale: 1:25 000

E. HOWCREEK TO POWFOOT

NGR: NY 11-15/63-67



KEY

| Site location | Symbol | Colour | Significance |
|-----------------|----------------------------|--------|---|
| NGR ref. - eg. | Roundel - Solid, (or area) | Red | Protected Ancient Monument |
| | Cross | Red | Listed Historic Building |
| NX 143 368 | Roundel - Open, (or area) | Red | Monument formally proposed by Historic Scotland for designation |
| | Roundel - Solid, (or area) | Yellow | Other known Ancient Monument |
| NMRS ref. - eg. | Dashed outline | Yellow | Gardens/Designed landscape |
| NX13 SW17 | Roundel - Solid, (or area) | Yellow | Undesignated wreck |
| | Area | Green | Insufficient information; more work needed |
| | Area | Blue | Probably archaeologically sterile |

