

## MAP 51: STANHOPE TO EAST HOWCREEK

**Hinterland Geology and Coastal Geomorphology:** This map shows a fairly irregular coastal edge with a hinterland that lies below 10m O.D. marine deposits overlie coarse clays. The foreshore is colonised by salt-marsh which overlooks the estuarine flats of the Solway Firth. Alluvium mud and silt occurs alongside river channels at the mouth of the Lochar Water.

**Erosion Class:** The river mouth of the Lochar Water is both accreting and stable. Eastwards towards East Howcreek the coastline is classified as stable and eroding.

**Built Heritage & Archaeology:** This section contains the remains of the former edge of a field which is now threatened by high tides. This demonstrates the occurrence of local marine transgression which must be accepted as a long established pattern (Jardine, 1980). The formation of peat bogs in the past may hide surviving archaeological remains, the discovery of a dug-out canoe being one example (Jardine & Morrison, 1976, 190-1). Despite the paucity of the present archaeological record, monitoring of the coastline in this section is highly recommended.

## Map 51: Hinterland Geology and Coastal Geomorphology

---

1. South of MID UPPER PRIESTSIDE to  
POWFOOT

NY 125 650

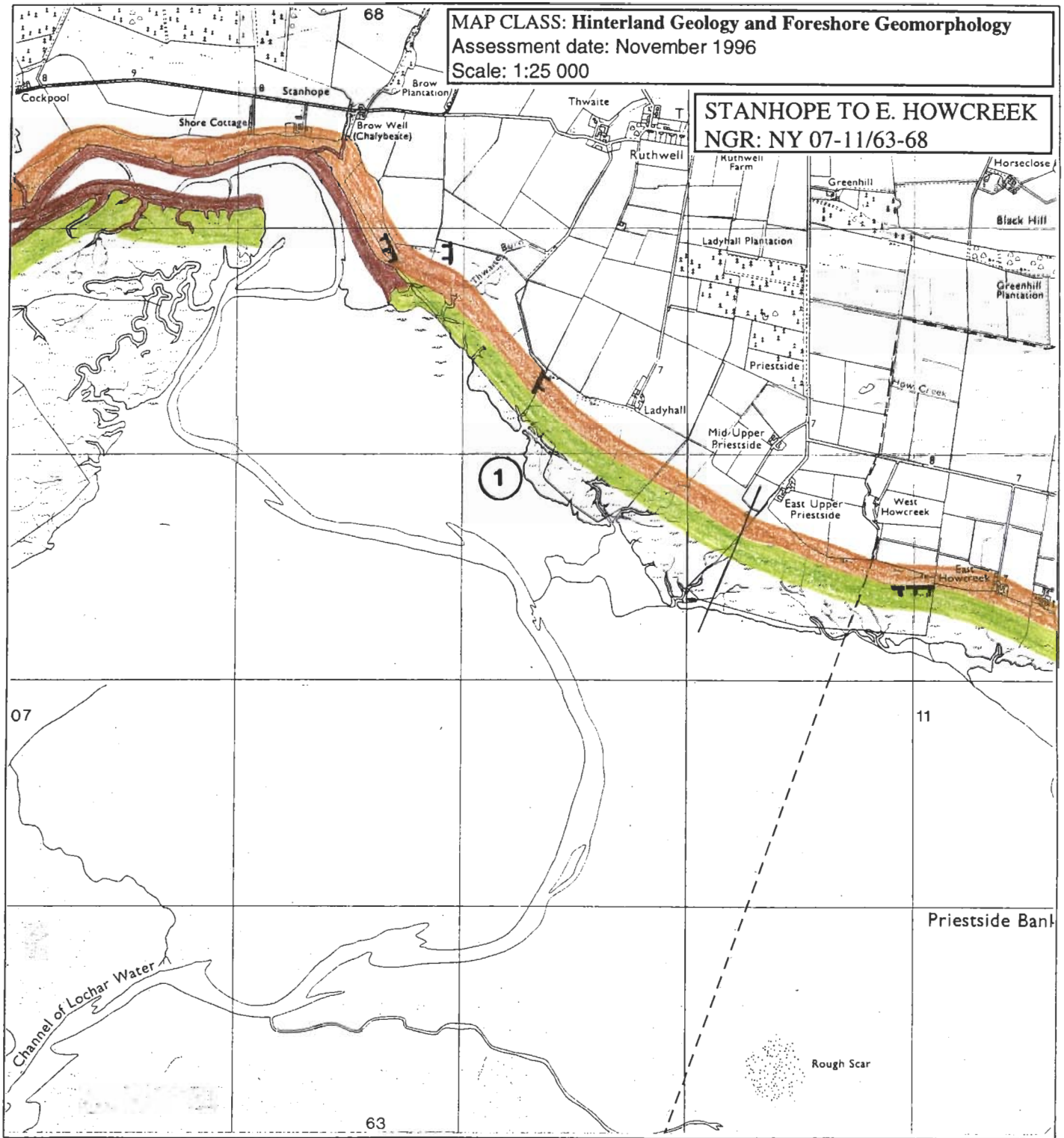
5km

Low edge (< 5m)

*Marine sands and gravels over carse clays*

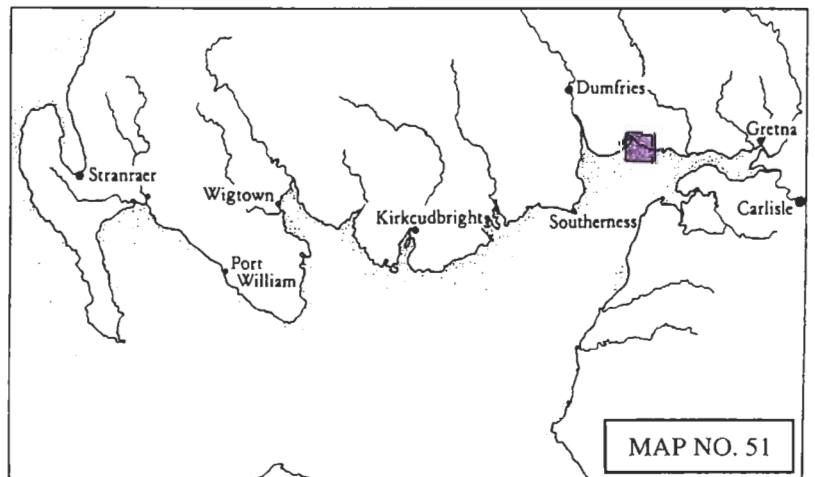
Lower estuary of the River Eden. The hinterland consists of low lying marine sands and gravels over Carse clays. The shoreline is mainly salt-marsh which skirts boulder beds and tidal mud flats.

---



**KEY**

| 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 51: EROSION

---

**1. BROW WELL to south of EAST UPPER  
PRIESTSIDE**

NY 094 660

2.7km

*Eroding or stable*

This unit is dominated by saltmarsh incised with narrow drainage channels. The banks are prone to arcuate failure but in general this region of coast appears to at present stable.

**2. South of EAST UPPERPRIEST SIDE to  
POWFOOT**

NY 125 650

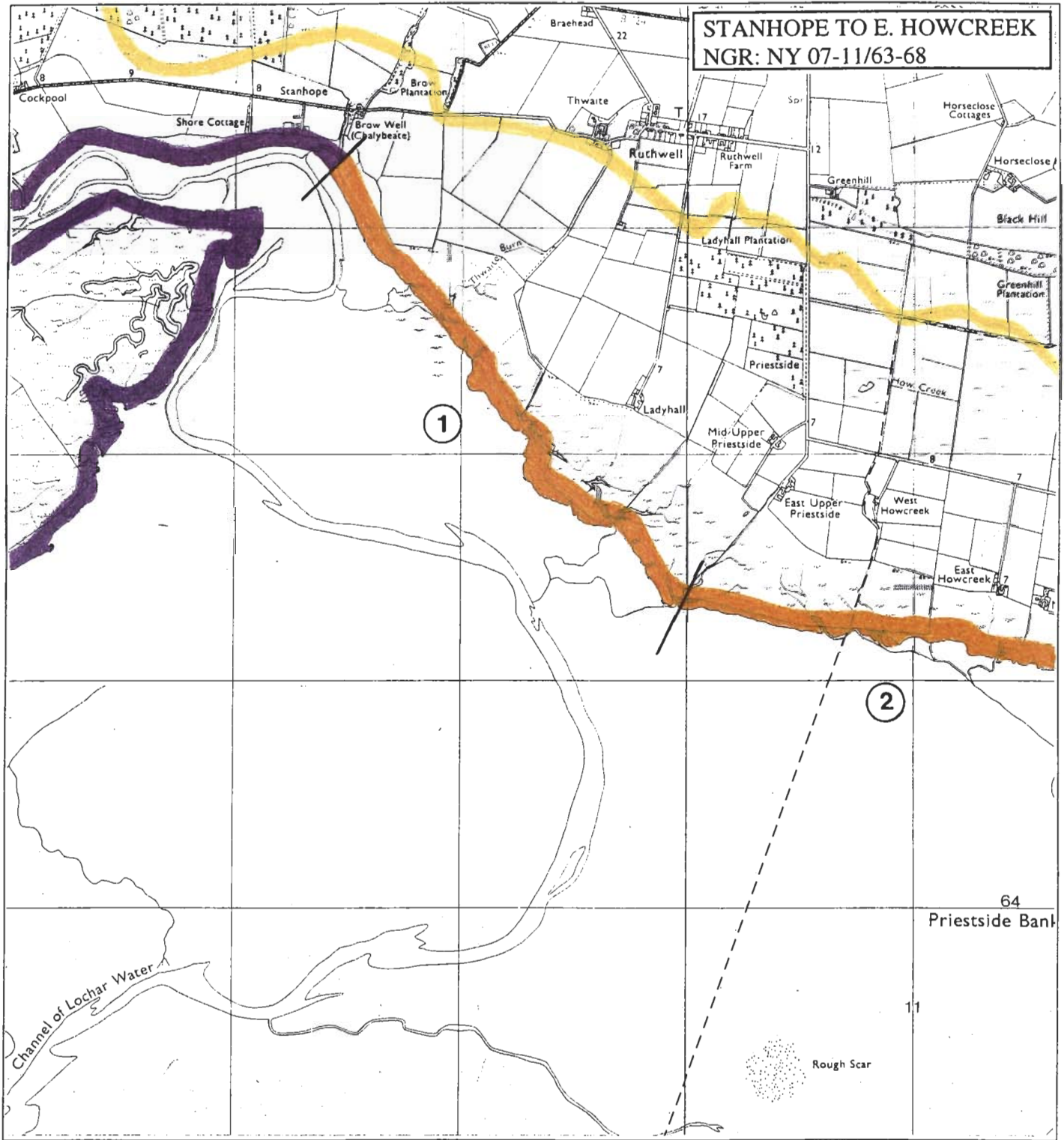
5.4k

*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.

---

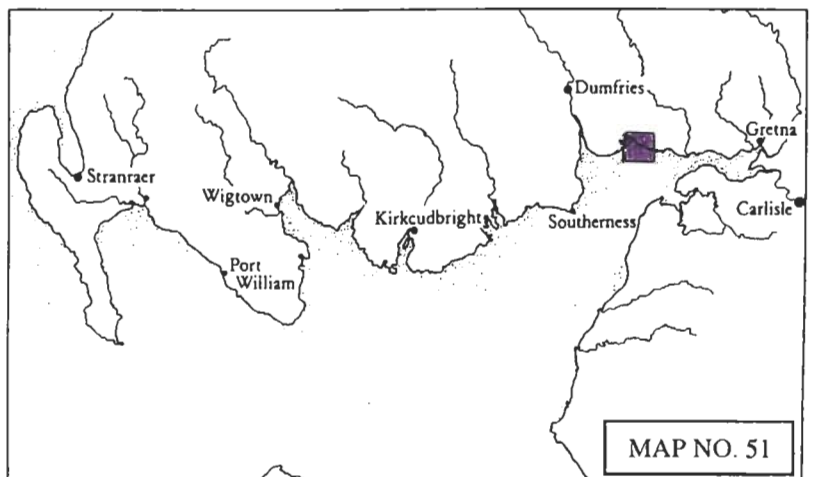
**STANHOPE TO E. HOWCREEK**  
**NGR: NY 07-11/63-68**



**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. 51**

## MAP 51: BUILT HERITAGE AND ARCHAEOLOGY

---

### Sites on the Coast Edge & Foreshore

NY 0948 6575  
CAERLAVEROCK RESERVE  
Fence - Former Edge of Field  
Uncertain  
Poor  
Monitor

### Sites in the Hinterland

None

---



**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                               |

