

## **MAP 49: KENNETH BANK TO CAERLAVEROCK MERSE**

**Hinterland Geology and Coastal Geomorphology:** This region has a hinterland geology consisting of estuarine sands and coastal-bar deposits. The land to the north lies below 10m O.D. Caerlaverock Merse is a SSSI under the care of SNH and also a nature reserve. It is a large area of deeply incised salt-marsh that is periodically inundated by exceptionally high tides. Landwards, floodbanks offer protection to grazing land.

**Erosion Class:** At Kenneth Bank (Unit 1 on the Erosion Map) a short stretch of the river edge is eroding. Mr W Wright, the SNH warden at Caerlaverock showed this writer a monochrome photograph of the Kenneth Bank area taken in 1961. The photograph shows 25 fence-posts (c.2m apart) running down to the river edge. Today 12 fence-posts survive and this enables us to estimate that c.26m of coast has been lost since 1961. The merse is incised with channels that show evidence for erosion, other parts are accreting with mud. Aspects of salt-marsh development and erosion at Caerlaverock Merse are dealt with in much greater detail in Section 4.

**Built Heritage & Archaeology:** This section contained two sites; the remains of the medieval complex surrounding Caerlaverock Castle and the old harbour. Limited erosion of the harbour is taking place and monitoring is recommended.

## Map 49: Hinterland Geology and Coastal Geomorphology

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1. South of KENNETH BANK east of  
BLACKSHAW FARM

NY 035 652

10km

Low edge (< 5m)

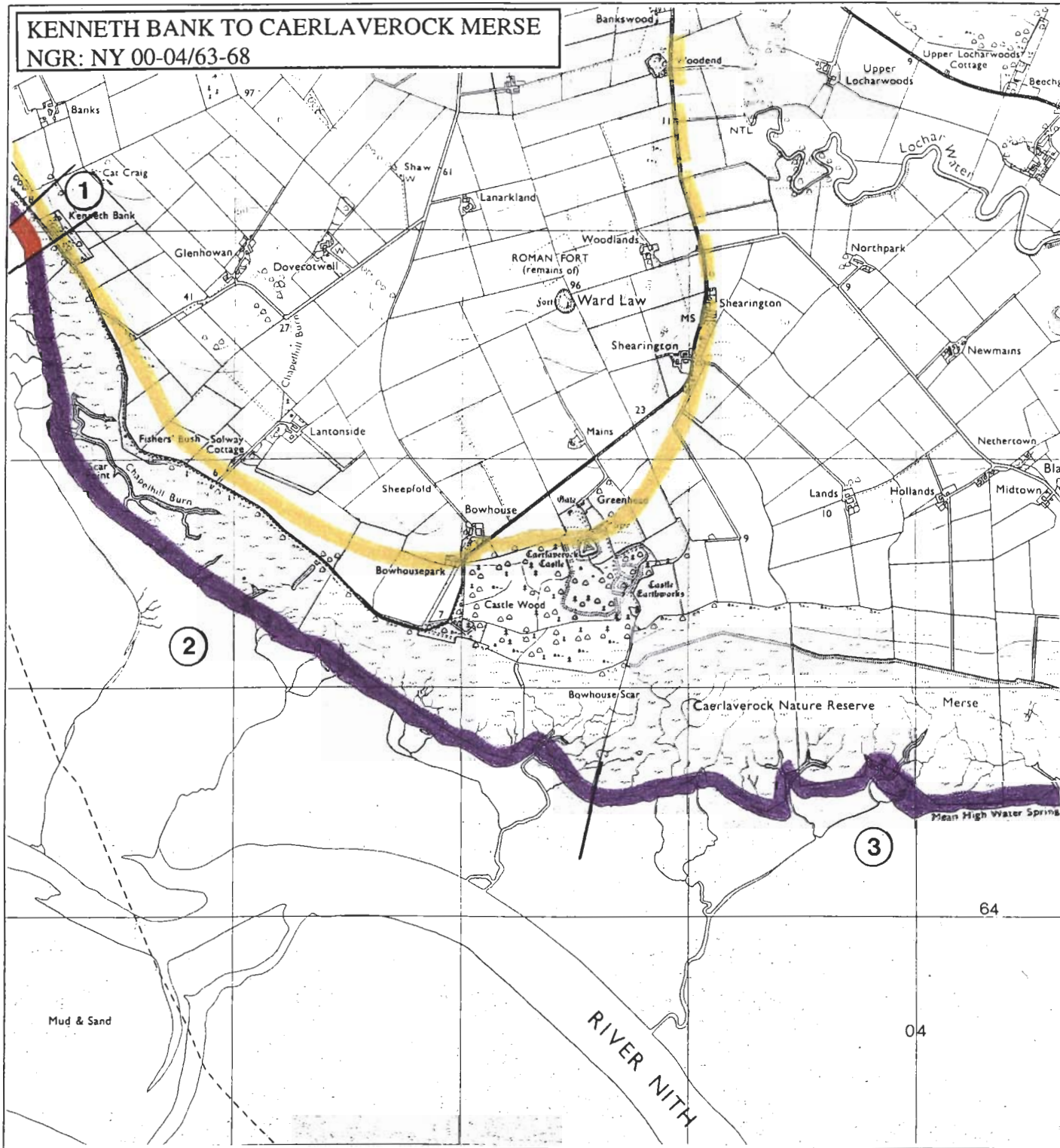
*Marine sands and gravel over carse clays*

Large tract of estuarine salt-marsh of  
Caerlaverock Nature Reserve. The hinterland  
consists of marine sands and gravels overlying  
Carse clays.

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# KENNETH BANK TO CAERLAVEROCK MERSE

NGR: NY 00-04/63-68



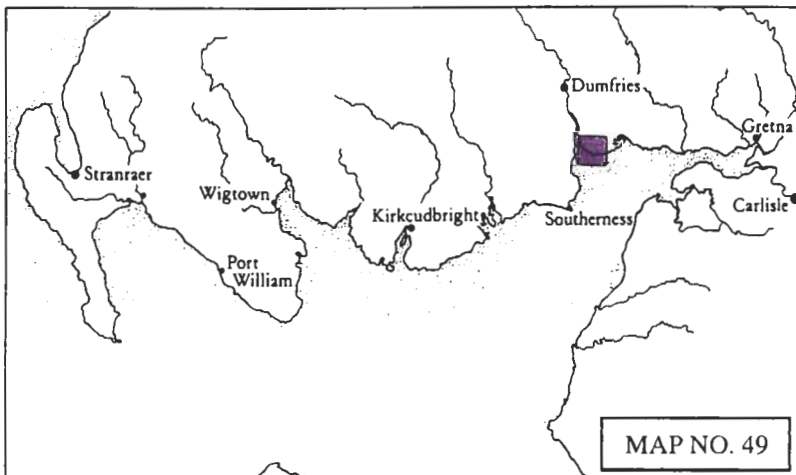
## KEY

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. 49

## MAP 49: EROSION

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### 1. KENNETH BANK

NY 300 670

0.2km

*Definitely eroding*

There is evidence of coastal retreat at Kenneth Bank. A photograph taken in 1961 shows a line of 25 fence posts (c.2m apart) of which only 12 remain. As a rough estimate 26m of coast has been lost since 1961 (W Right pers comm).

### 2. KENNETH BANK to south of BOWHOUSE SCAR

NY 020 646

*Both accreting and eroding*

Deeply incised drainage channels through a saltmarsh with evidence of erosion of the banks. Mud is accreting in parts.

### 3. South of BOWHOUSE SCAR to south of SHORE COTTAGE (mouth of Lochar Water)

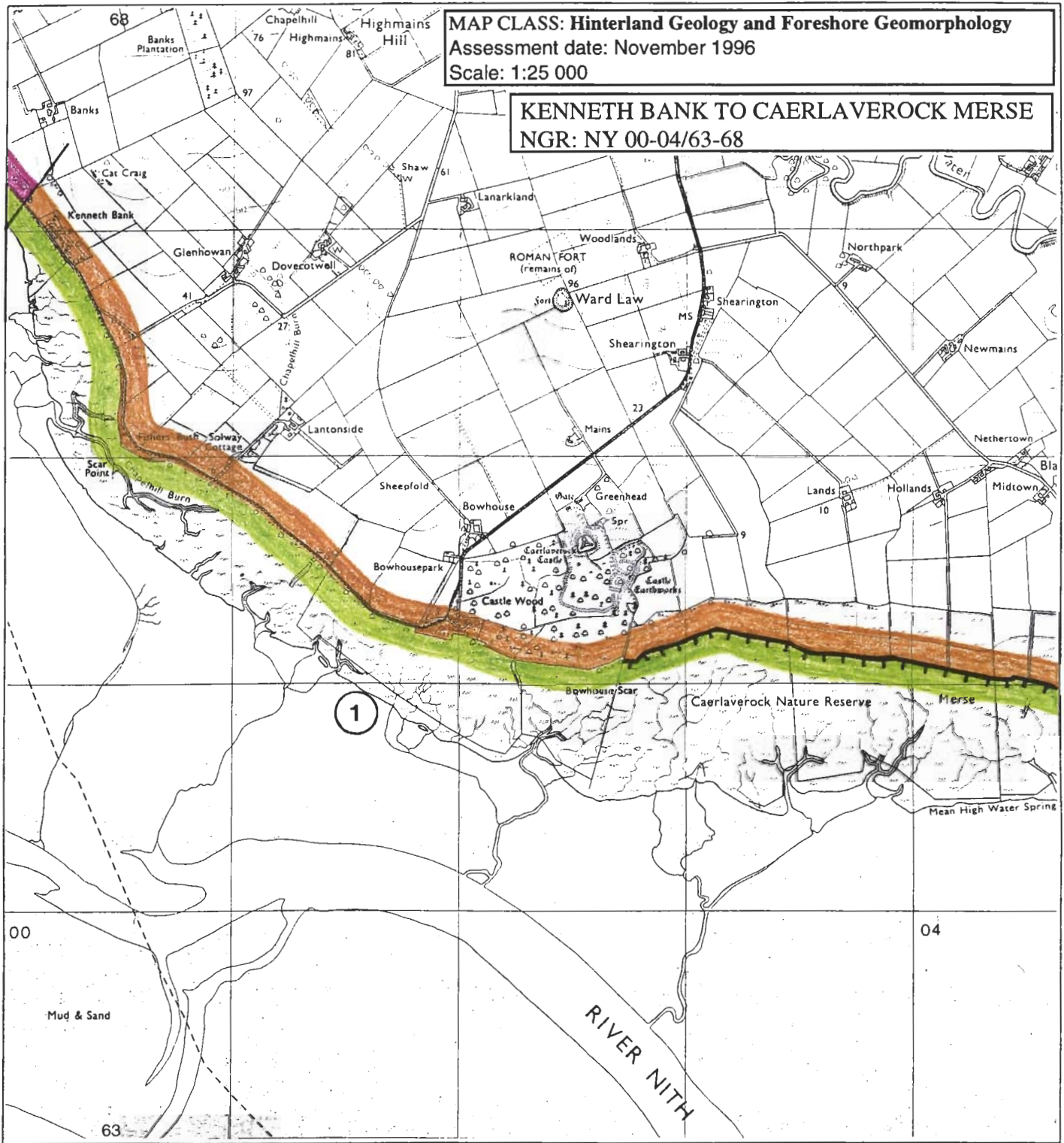
NY 054 646

5.5km

*Both accreting and eroding*

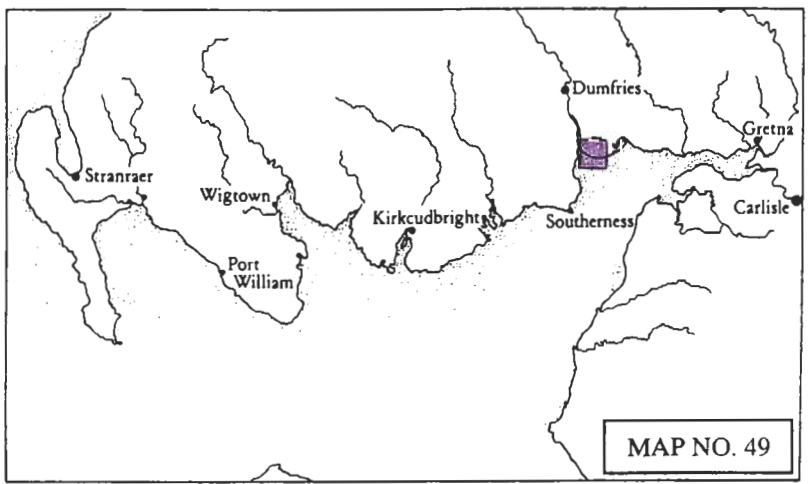
Marshland deeply incised with drainage channels. Mud is accreting on the banks and arcuate slope failure is occurring on some sections of the channels.

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**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 49: BUILT HERITAGE AND ARCHAEOLOGY**

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**Sites on the Coast Edge & Foreshore**

None

**Sites in the Hinterland**

**NY 02 65**  
CAERLAVEROCK  
Castle Grounds  
Scheduled Ancient Monument  
12<sup>th</sup> - 17<sup>th</sup> centuries  
Good  
Nil

**NY 0274 6510**  
CAERLAVEROCK RESERVE  
Harbour  
Scheduled Ancient Monument  
Uncertain  
Good  
Nil

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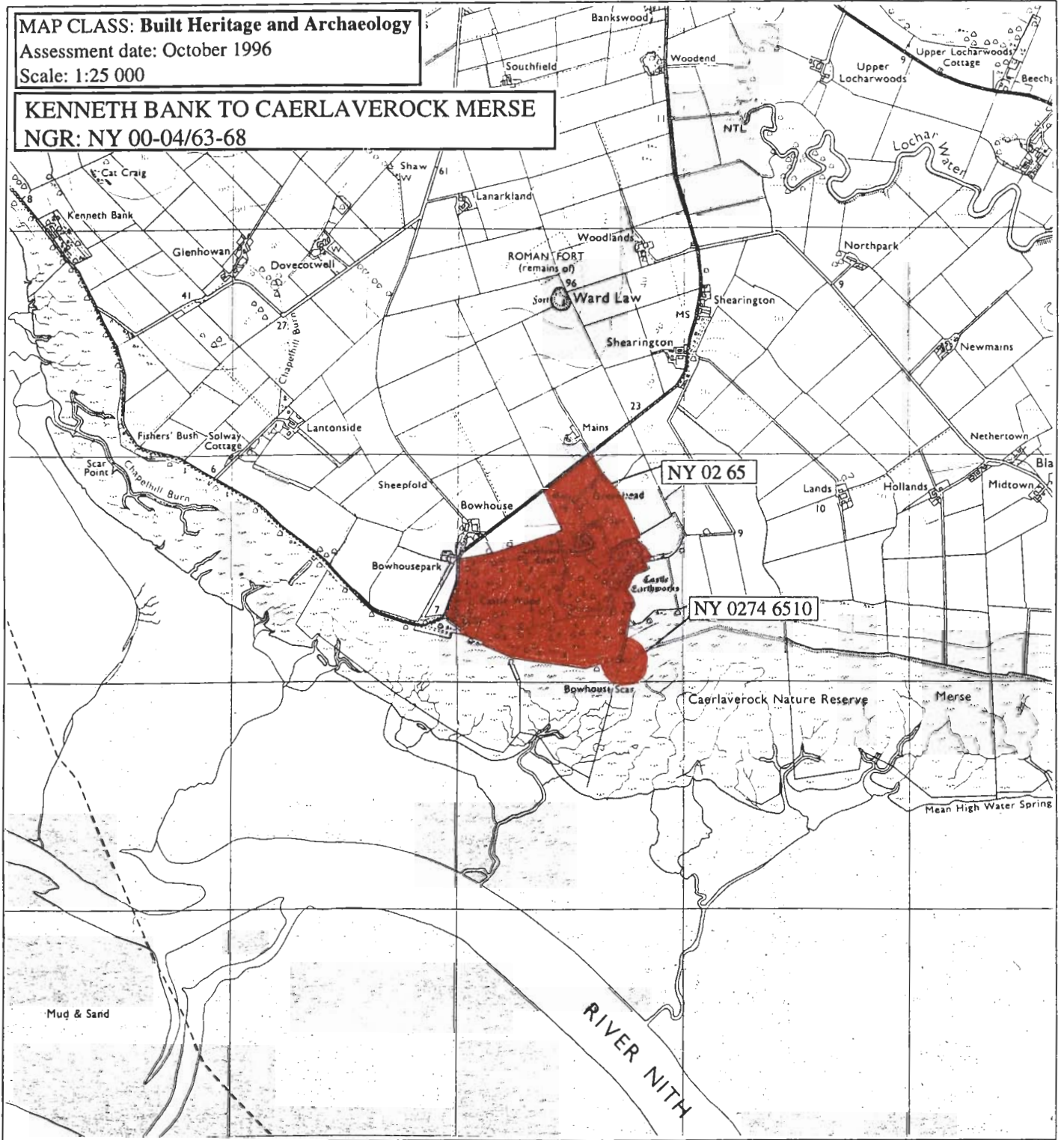
**MAP CLASS: Built Heritage and Archaeology**

Assessment date: October 1996

Scale: 1:25 000

**KENNETH BANK TO CAERLAVEROCK MERSE**

NGR: NY 00-04/63-68



**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

