

MAP 22: SPITTAL WOOD TO CARSE OF BARR

Hinterland Geology and Coastal Geomorphology: This area comprises the lower tidal reach of the River Cree. The hinterland geomorphology consists of salt-marsh. This skirts the river channel that meanders in a series of loops, straights and tight curves. Alluvial silts are present along the river banks. Flood banks protect the low lying land behind which is below 5m O.D.

Erosion Class: Tidal river channels are very dynamic environments (Bearman 1989). On the quiet stretches of the river, where the current is not as strong, stands of common reed (*Phragmites sp*) are trapping silts and mud. On the inside of the channel loops erosion of the bank-edge is common. At high tide the main channel is submerged and flowing which over time results in channel edge erosion or under-cutting leading to channel shifts. It is considered that this region is best classified as both accreting and eroding..

Built Heritage & Archaeology: This section contains a scattered distribution of relatively modern (late nineteenth and twentieth century) sites, comprising flood banks, breakwaters and the remains of a disused railway bridge. Only in the case of the railway bridge is monitoring required.

Map 22: Hinterland Geology and Coastal Geomorphology

1. North of GRANGE of CREE to NEWTON

STEWART

NX 450 610

10km

Low edge (< 5m)

Saltmarsh and alluvium

Salt-marsh alongside the meandering River Cree.

The river channel has a margin of fine grained alluvium.

2. NEWTON STEWART to KNOCKDOWN

FERRY HOUSE

NX 450 625

10km

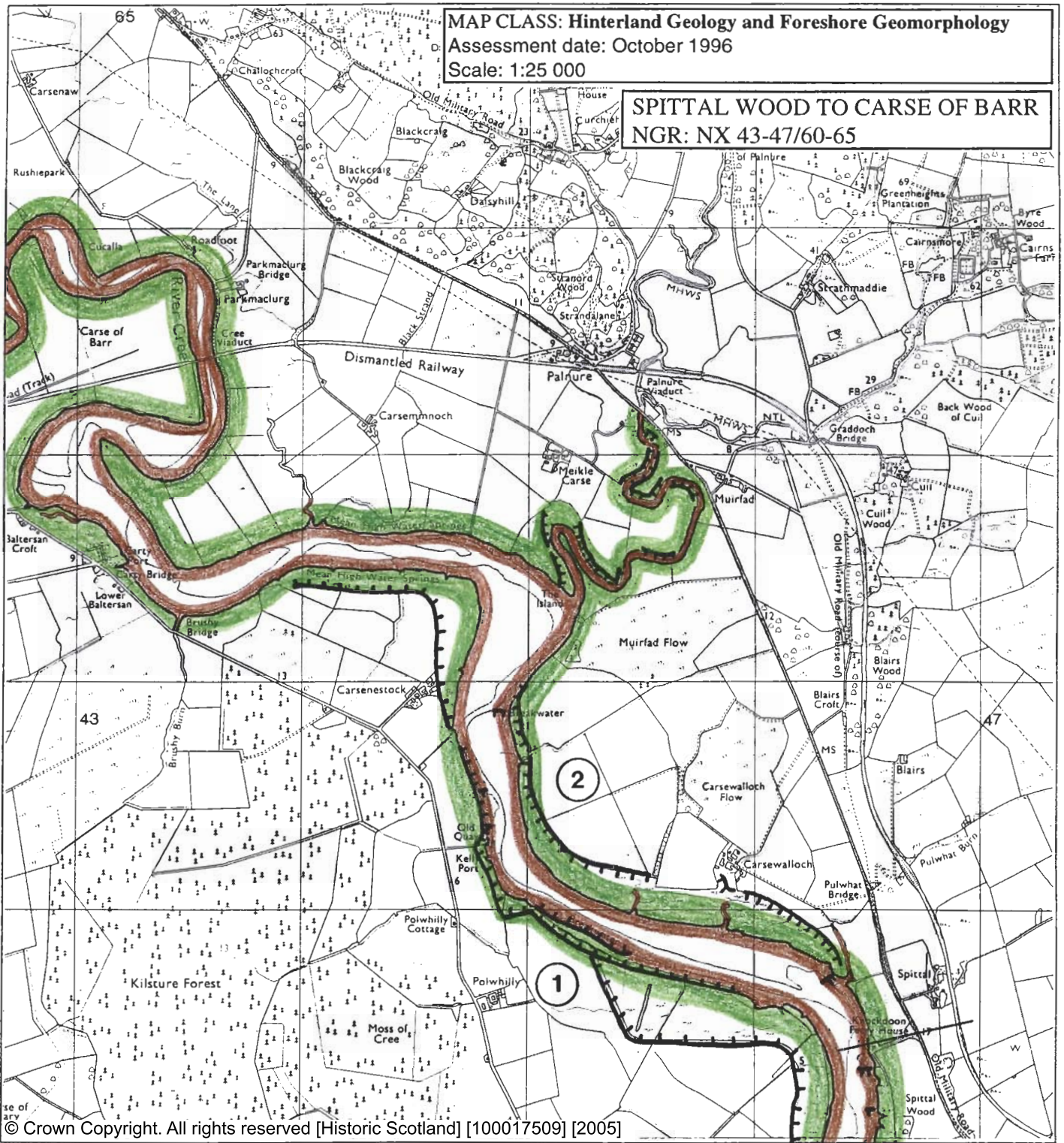
low edge (< 5m)

Salt-marsh and alluvium

Salt-marsh formed on alluvium bordering a tidal river channel. Fine grained muds occur on the margin of the river channel.

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

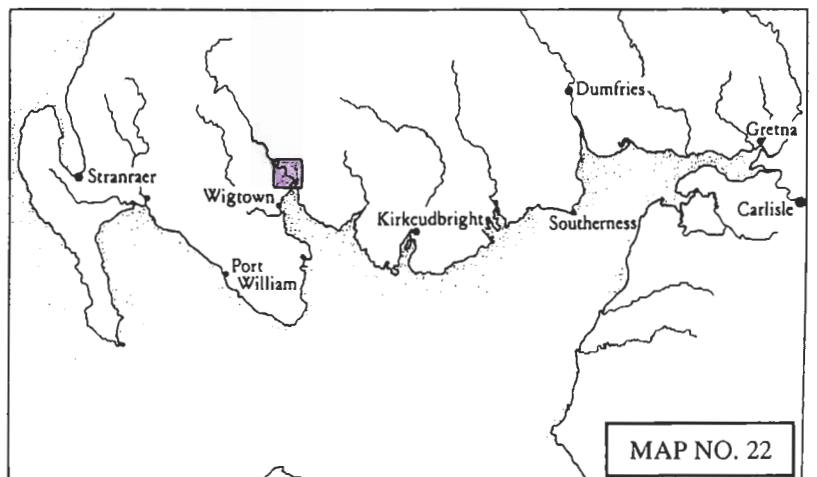
SPITTAL WOOD TO CARSE OF BARR
 NGR: NX 43-47/60-65



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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 NO. 22

MAP 22: EROSION

1. East of POLWHILLY to the A75T bridge at
NEWTON STEWART
NX 434 623

Both accreting and eroding

The tidal reach of the River Cree. This unit meanders in a series of extensive loops of which the inner curves exhibit mud accretion. The outside of the curves display erosion at the current MHWS mark. The hinterland is low lying but protected in parts by earthwork flood defences.

2. A75T bridge at NEWTON STEWART to
south of MEIKLE CARSE
NX 437 631

8.5km

Both accreting and eroding

East side of the lower tidal reach of the River Cree. Both accretion and erosion is occurring as in that described in the previous unit.

3. The tidal reach of the PALNURE BURN
NX 456 625

2.2km

Both accreting and eroding

This short tidal stretch of the Palnure Burn meanders north-eastwards through a flood plain

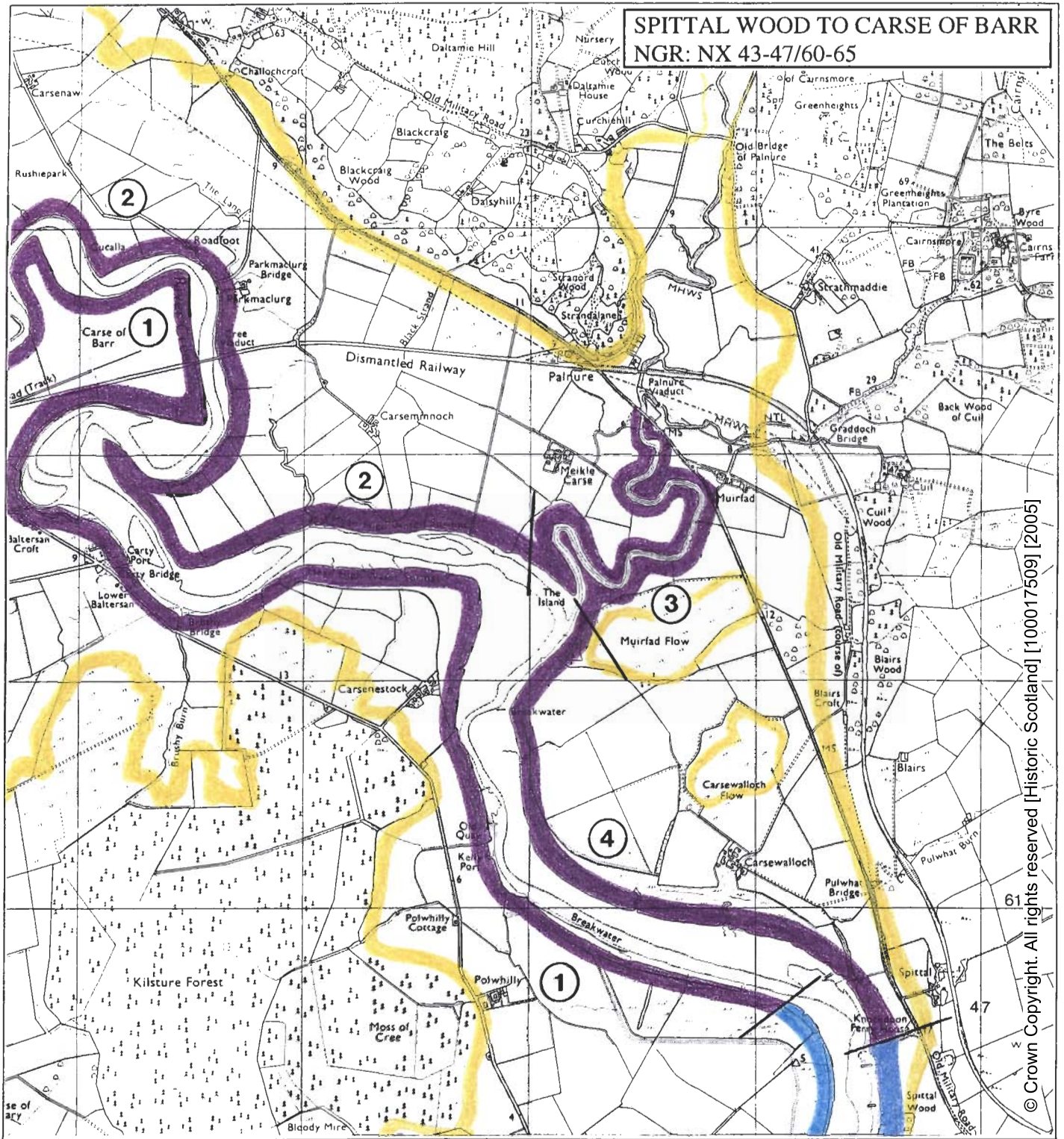
4. Mouth of the PALNURE BURN to
KNOCKDOON FERRY HOUSE
NX 435 613

3km

Both accreting and eroding

A curving stretch of the lower tidal River Cree. Parts of the bank display slope failure at the SHWM. As the main river channel is on the western side mud is now accreting on the eastern side of the channel.

SPITTAL WOOD TO CARSE OF BARR
NGR: NX 43-47/60-65

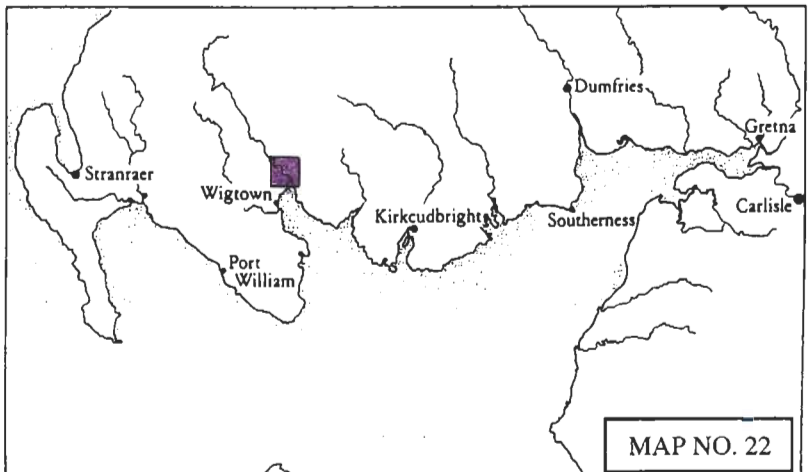


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KEY

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: 01.10.96
 Scale 1:25 000



MAP NO. 22

MAP 22: BUILT HERITAGE AND ARCHAEOLOGY

Sites on the Coast Edge & Foreshore

NX 4360 6342

PARKMACLURG

Disused Railway Bridge

19/20th century

Poor

Monitor

NX 4508 6136

CARSEWALLOCH FARM

Flood Bank

Mid 20th century

Good

Nil

NX 4652 6034

KNOCKDOON

Flood Bank

Uncertain

Fair

Nil

NX 4650 6028

RIVER CREE

Breakwater

Uncertain

Fair

Nil

NX 4650 6011

KNOCKDOON

Breakwater

Uncertain

Fair

Nil

Sites in the Hinterland

None

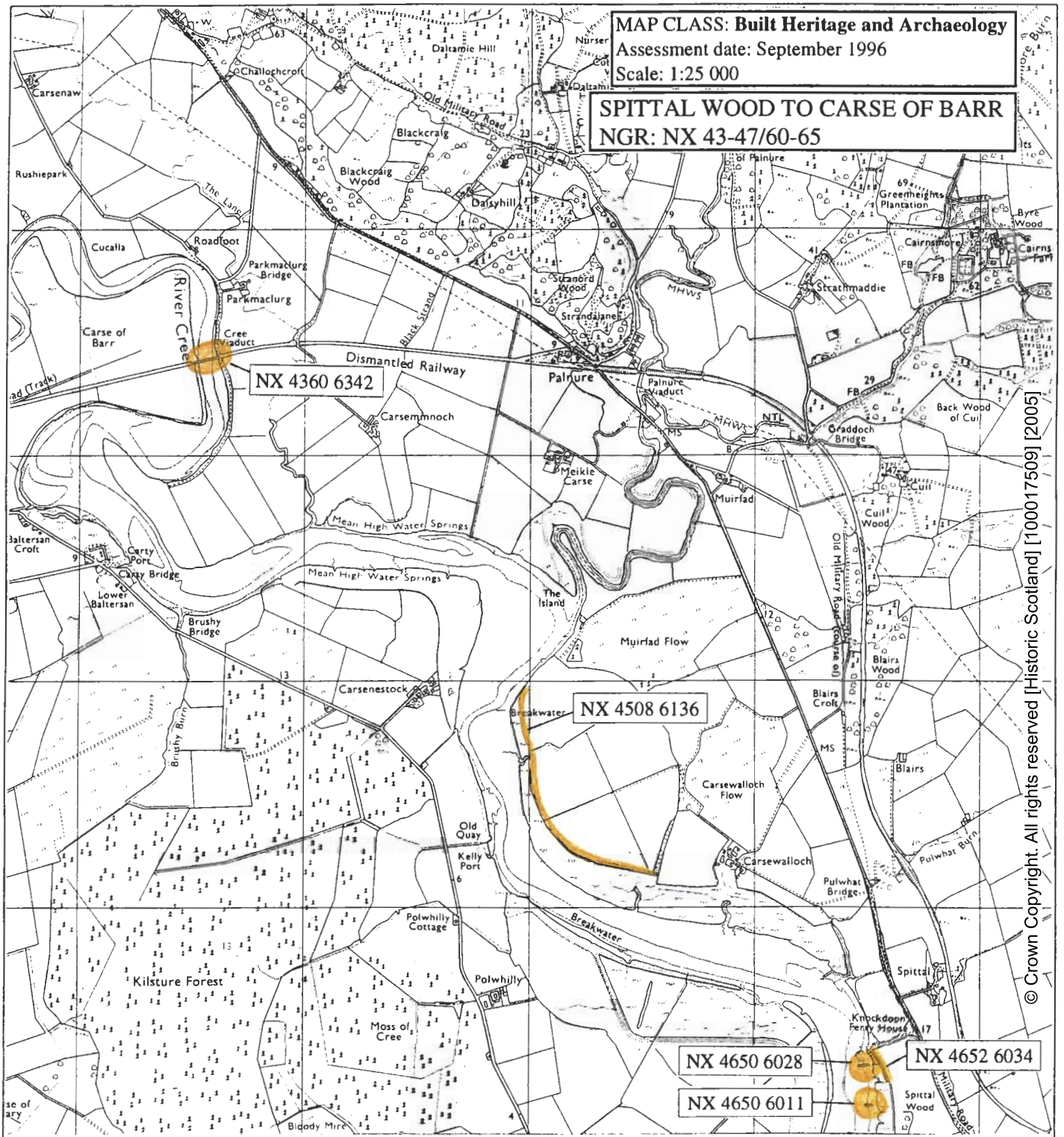
MAP CLASS: Built Heritage and Archaeology

Assessment date: September 1996

Scale: 1:25 000

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NGR: NX 43-47/60-65



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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
NMRS ref. - eg.	Roundel - Solid, (or area)	Yellow	Other known Ancient Monument
	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

