

Map 13: SHOREMILL TO UDALE BAY

Hinterland Geology and Coastal Geomorphology: Undifferentiated thin bedded sandstone continue to dominate the basement geology. Boulder clay is the main cover lithology. The coastline is mantled by raised beach sand and gravel of post-glacial age. At Udale bay raised beach cliffs of post-glacial age are well represented. Further inland from the bay the *Alt Dubhact* floodplain provides freshwater alluvium. The hinterland is low lying at below 10m OD.

Erosion class: This section of estuarine coastline is sheltered with an accreting foreshore. Within Udale Bay sediment development is stabilising the saltmarsh on the backshore. At Jemimaville (NH 719 653) sea defences are eroding at their base as a result of wave hammer.

Built Heritage and Archaeology: The built heritage in this area include an 18th century water mill at Shore Mill, with the water wheel still present. The other site is the village of Jemimaville; an 18th century village with various residential, commercial and religious buildings. The foreshore archaeology includes two fish trap sites and the Resolis free church in Jemimaville which is currently being undercut by coastal erosion. At the northern part of this area at Newhall Point are the remains of a Pre-Reformation chapel and burial ground and on the foreshore a stake net mound, the remnants of a large fish trap.

Map 13: Hinterland Geology and Coastal Geomorphology

1. West of WOODSIDE to JEMIMAVILLE

NH 730 652

1.8km

Shingle/mud and sand

Low edge (<10m)

Raised beach and marine deposits

Low linear coastal edge with a foreshore consisting of shingle. The hinterland consists of a relict shoreline containing a backshore of marine sand and gravel.

2. JEMIMAVILLE to St MICHAEL'S CHURCH

NH 710 668

1.3 km

Saltmarsh tidal flats with mud and shingle beds

Low edge (<10m)

Raised beach and marine deposits

This unit lies at the head of Udale Bay formed behind the headland at Newhall point. The foreshore is flanked by saltmarsh incised by a river channel. The backshore consists of relict raised beach behind which the land is low lying at below 10m OD.

3. St MICHAEL'S CHURCH to NEWHALL POINT

NH 710 668

1.3km

Mud/sand/shingle

Low Cliff (<10m)

Raised beach and marine deposits

Eastern side of Newhall Point. The foreshore is dominated by sand and shingle overlooking tidal flats. The hinterland consists of marine deposits and relict raised shoreline.

MAP 13: EROSION

1. East of SHORE MILL to west of WOODSIDE
NH 745 657

1.9km

Eroding or stable

A sea wall defends the length of this unit of coastline. The backshore rests on marine sand and gravel. The foreshore consists of mud and gravel which appears to be accreting and eroding according to the distribution of the sediment.

2. North east of FARNESS

NH 735 653

1km

Accreting or stable

A cobble beach overlooks accreting mud flats. Raised beach deposits at the backshore are stabilised by saltmarsh. At the present there are no indicators to suggest that conditions are not stable.

3. North of UDALE FARM

NH 728 653

12-15m approx.

Definitely eroding

Erosion of marine sand and gravel is occurring at the MHWL due to the loss of saltmarsh.

Offshore mud and shingle is present and appears stable.

4. East of JEMIMAVILLE

NH 725 653

0.5km

Stable

A sea wall lends stability to this unit of coastline.

Offshore mud flats show evidence of accretion.

5. JEMIMAVILLE

NH 719 653

0.6km

Stable or eroding

Sea defences are being eroded at the base by

shingle scour. Offshore mud flats are accreting.

6. UDALE BAY

NH 710 653

1.2km

Accreting or stable

Udale bay is sheltered with an irregular coastal edge due to saltmarsh development. This is consolidating the MHWL. Offshore the wide tidal flats are accreting with mud and shingle.

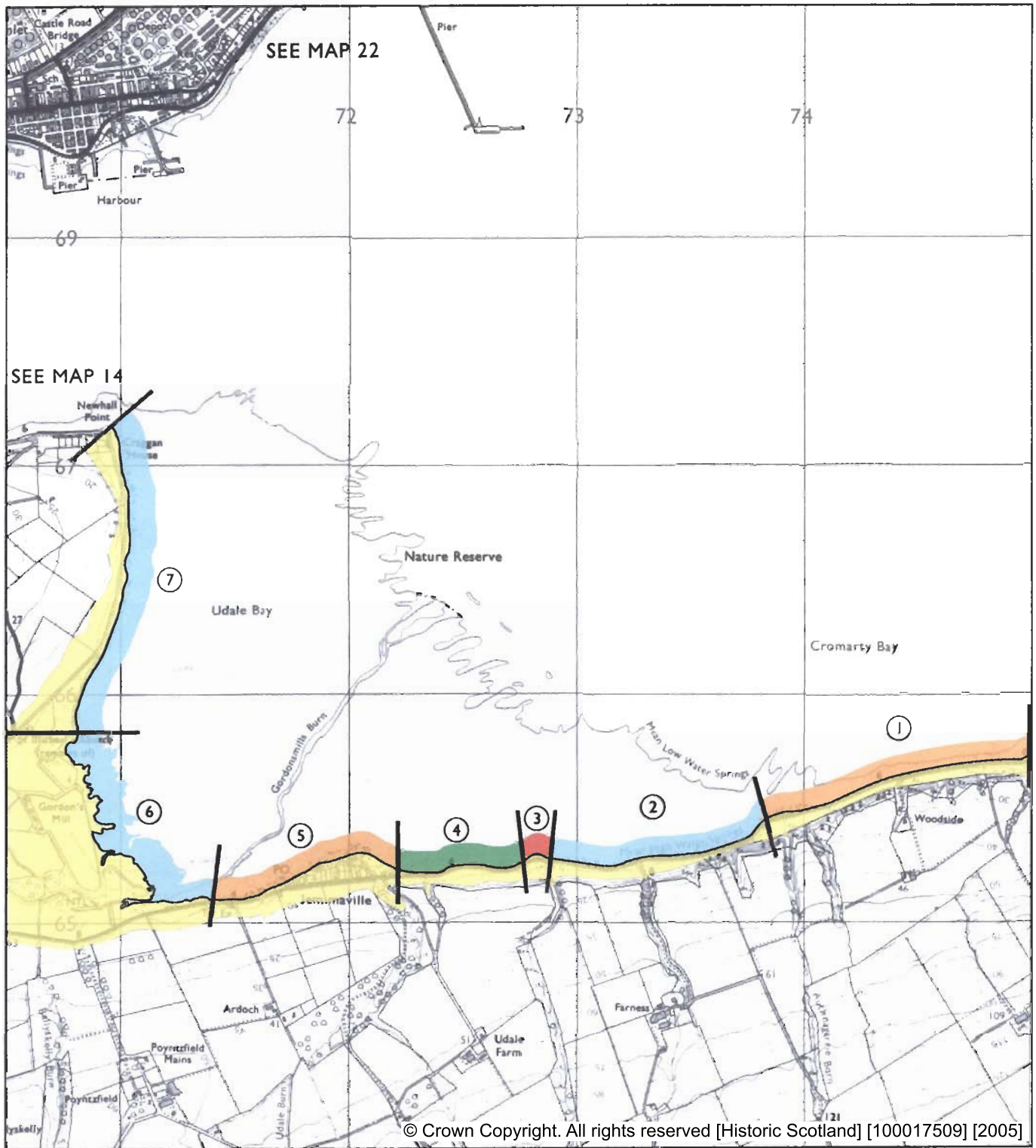
7. St MICHAELS CHURCH to NEWHALL POINT

NH 710 666

1.4km

Accreting or stable

Sea defences guard Newhall Point. Cobble and sand is banked up at the HWM. The foreshore is accreting with mud flats extending to about 1.5km.



MAP 13: SHORE MILL TO UDALE BAY

MORAY FIRTH SURVEY Grid ref: NH 71-75/64-69

1:25 000









Basemap: O.S. Pathfinder Series Sheet 144

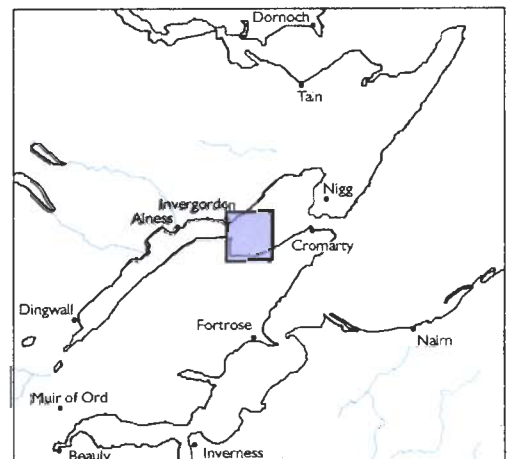
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EROSION CLASS

Assessment date: 10 September 1998

Key:

-  Definitely accreting
-  Accreting or stable
-  Stable
-  Eroding or stable
-  Definitely eroding
-  Both accreting and eroding
-  No access
-  Land below 10m



MAP 13: BUILT HERITAGE AND ARCHAEOLOGY

Sites on the Coastal Edge & Foreshore

NH 7418 6590
WOODSIDE
Fish trap
Uncertain
Poor
Survey

NH 7186 6523
JEMIMAVILLE
Resolis Free church
19th century AD
Poor
Monitor

NH 7204 6530
JEMIMAVILLE
Partially upstanding building
Uncertain
Poor
Nil

NH 7218 6576
JEMIMAVILLE
Complex fish trap
Uncertain
Poor
Survey

NH 7157 6512
UDALE BAY
Slipway
20th century AD
Poor
Nil

NH 7185 6640
UDALE BAY
Fish trap
Uncertain
Poor
Survey

Sites on the Coastal Edge & Foreshore

NH 7084 6603
KIRKTON
Metal boat boiler
20th century AD
Fair
Nil

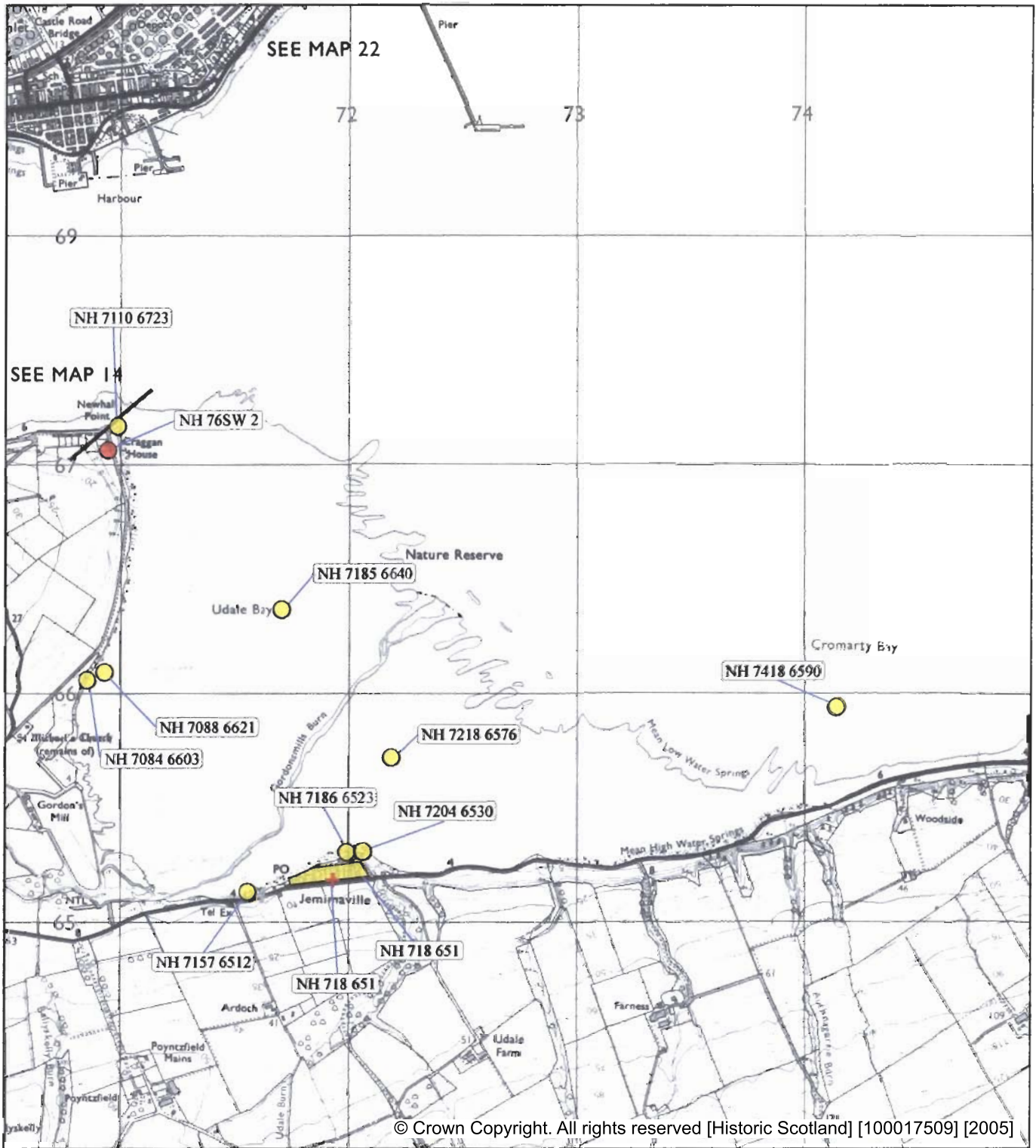
NH 7088 6621
KIRKTON
Hulk
Uncertain
Poor
Monitor

NH 7110 6723
NEWHALL POINT
Fish trap stake net mound
Uncertain
Poor
Survey

Sites in the Hinterland

NH76NW 4, 6, 72-95 - Various Listed C
NH 718 651 area
JEMIMAVILLE
Residential, religious & commercial buildings; lamp post
18th/19th century AD
Good
Nil

NH76NW 2 - Scheduled
NH 7088 6707
NEWHALL POINT,
BALBLAIR
Pre-Reformation chapel and burial ground
10th-11th century AD
Poor
Monitor



MAP 13: SHORE MILL TO UDALÉ BAY

MORAY FIRTH SURVEY Grid ref: NH 71-75/64-69

1:25 000

Basemap: O.S. Pathfinder Series Sheet 144

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BUILT HERITAGE AND ARCHAEOLOGY

Assessment period: September 1998

Key:

Protected Ancient Monument, or area of designated wreck

Listed Historic Building

Monument formally proposed by Historic Scotland for scheduling, or wreck for designation

Other known Ancient Monuments, or Undesignated wreck

Designated Landscape

Insufficient information; more work needed

Probably archaeologically sterile

