

Map 22: INVERGORDON TO BARBRAVILLE

Hinterland Geology and Coastal Geomorphology: Old Red Sandstone forms the basement geology. The drift component within this unit is derived from marine incursions with sand and gravel forming three distinct regions of fossil shoreline. The terraces are discontinuous overlying patches of glacial deposits in the region of Invergordon harbour. The raised beach escarpments are mapped for up to 2.5km and run parallel with the present shoreline.

Erosion class: A concrete promenade with fronting rock armour protects most of this coastal unit. In front, mud is accreting. The intertidal area is mainly mud and shingle and at the time of the survey there was no indicators of active erosion.

Built Heritage and Archaeology: The built heritage in this area is mainly the various sites in Invergordon town. These include the warehouses, ginnal and residential housing along the coastal hinterland strip. On the foreshore the sites include the harbour, Naval dockyard and the ferry pier designed by Telford. Further to the east Saltburn is a good example of a late 19th century planned linear village. Balintraid pier, designed by Telford, appears to be in a poor state of repair. Further fish trap mounds were recorded below HWM to the east of the pier

Map 22: Hinterland Geology and Coastal Geomorphology

1. INVERGORDON to SALT BURN

NH 714 686

3.7

Mainly sand

Low edge (<10m)

Raised beach and marine deposits

Industrially modified hinterland. The underlying geology is marine deposits. The foreshore consists of mainly sand

2. SALT BURN to BALINTRAIID PEIR

NH 733 750

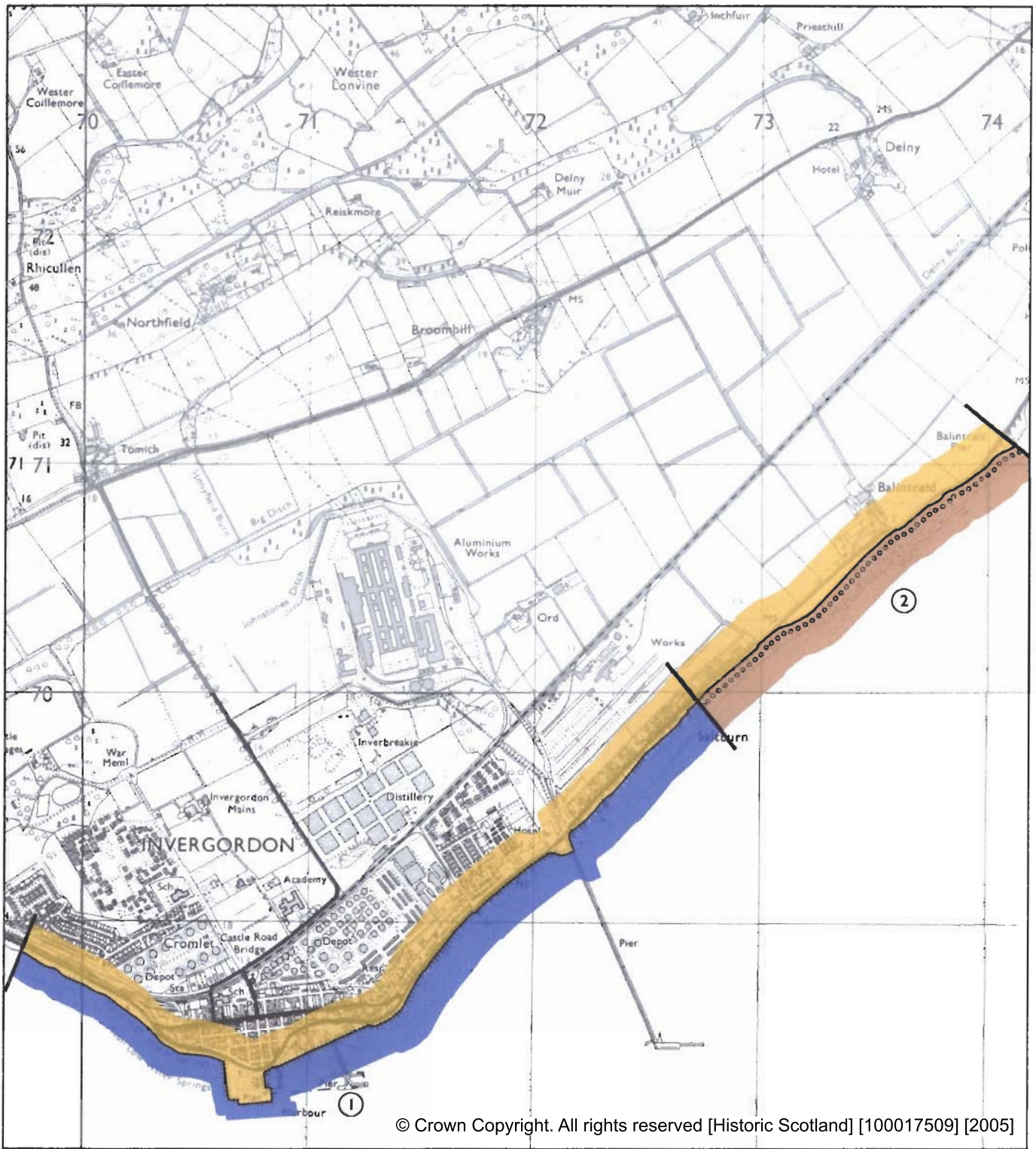
1.8km

Estuarine mud, sand and shingle

Low edge (<10m)

Raised beach and marine deposits

The hinterland consists of raised beach deposits behind a linear coastal edge. The foreshore consists of a mud and shingle on tidal flats.



MAP 22: INVERGORDON TO BALINTRAIT

MORAY FIRTH SURVEY Grid ref: NH 70-74/68-73

1:25 000

Basemap: O.S. Pathfinder Series
Sheets 133 & 144
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HINTERLAND GEOLOGY AND FORESHORE GEOMORPHOLOGY

Assessment date: 17 September 1998

Hinterland:

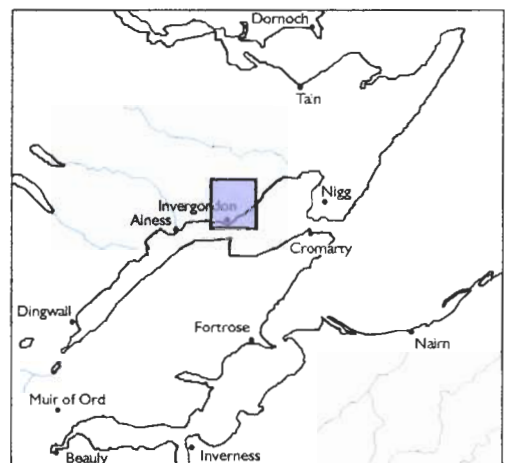
- Drift, boulder clay
- Drift, boulder clay over visible rock
- Raised beach and marine deposits
- Blown sand
- Glacial sand and gravel
- Alluvium

Coast edge:

- Low edge (< 5m tall)
- Cliff over 5m tall
- Man made barrier
- Shingle/storm bank
- Human disturbance

Foreshore:

- Mainly rock platform
- Mainly sand
- Mainly alluvial/marine mud
- Marsh



MAP 22: EROSION

1. INVERGORDON

NH 270 686

0.5km

Definitely eroding

This unit is defended by quarried rubble. Local erosion is occurring where the base of the rubble is scoured by wave action. The foreshore comprises mud and shingle that appears to be stable.

2. INVERGORDON to INVERGORDON PIER

NH 710 684

2.4km

Stable

Sea defences are at the present lending stability to this unit of coastline that is heavily developed by oil and fabrication installations. Mud flats are accreting along the foreshore.

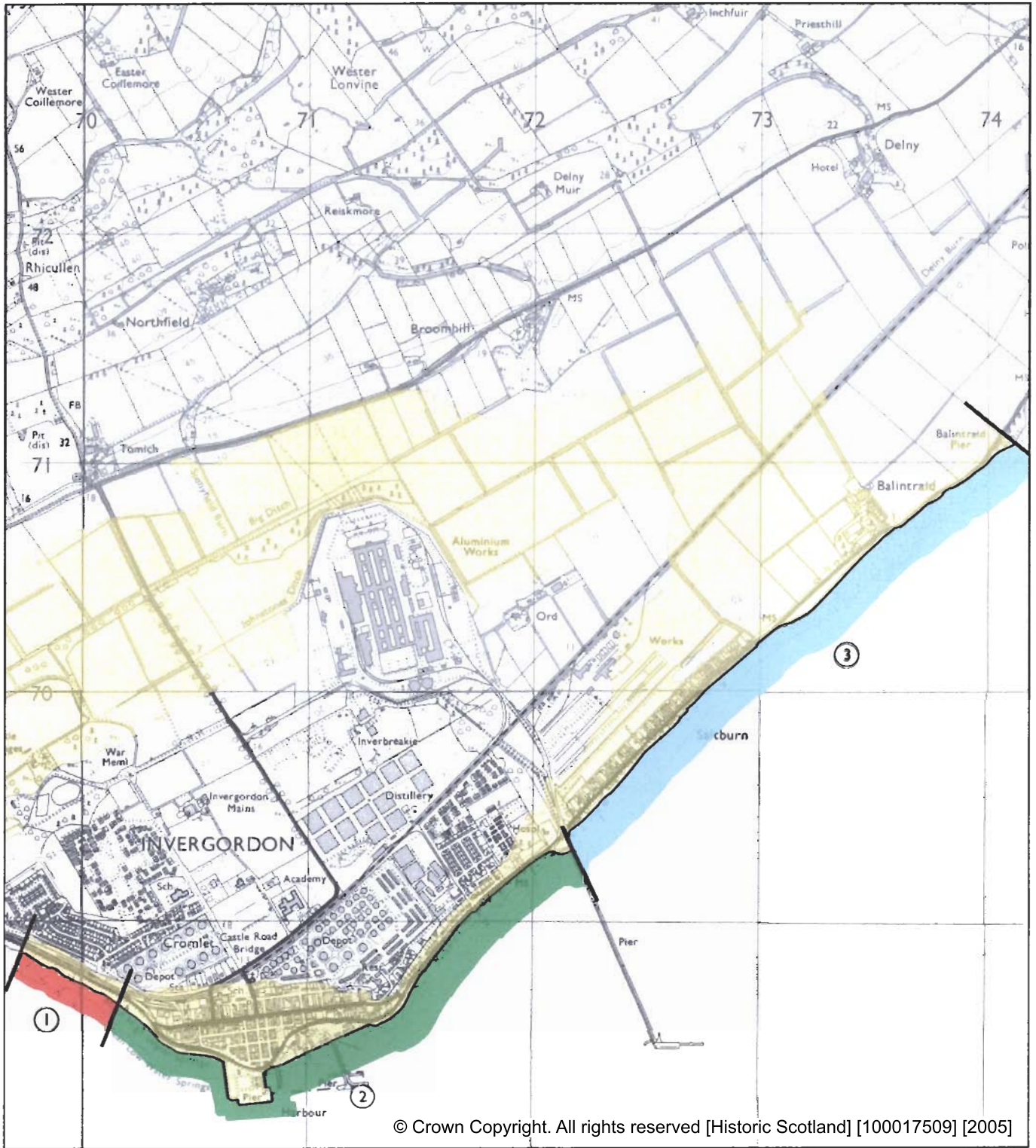
3. SALT BURN PIER to BARBRAVILLE

NH 740 710

2.5km

Accreting or stable

Saltburn town is defended by a concrete promenade fronted by quarry stone and there no indication of erosion. The beach is mainly sand and appears to be stable. At Pollo House region the shore is protected by natural outcropping sandstone.



MAP 22: INVERGORDON TO BALINTRAID

MORAY FIRTH SURVEY Grid ref: NH 70-74/68-73

1:25 000

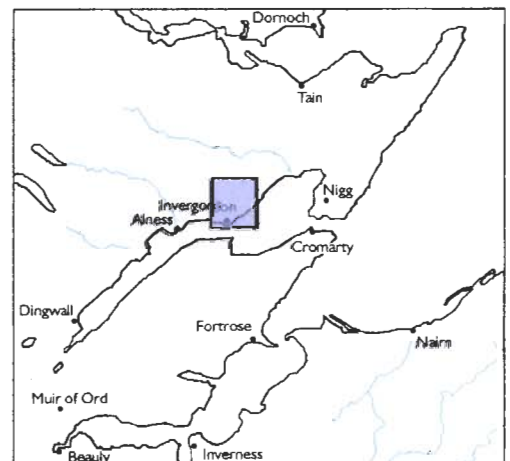
Basemap: O.S. Pathfinder Series
Sheets 133 & 144
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EROSION CLASS

Assessment date: 17 September 1998

Key:

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



MAP 22: BUILT HERITAGE AND ARCHAEOLOGY

Sites on the Coastal Edge & Foreshore

NH77SW 11 - Listed C
 NH 7415 7106
 BALINTRAID PIER
 Pier designed by Telford
 19th century AD; 1803-21
 Poor
 Monitor

NH 7425 7115
 BALINTRAID PIER
 Fish trap mounds
 Uncertain
 Fair
 Survey

NH 7028 6843
 INVERGORDON
 Fish traps
 Uncertain
 Poor
 Survey

NH76NW 21
 NH 7086 6832
 INVERGORDON
 Harbour
 18th/19th century AD
 Good
 Nil

NH76NW 64
 NH 7102 6848
 INVERGORDON
 Naval dockyard
 20th century AD
 Good
 Nil

Sites on the Coastal Edge & Foreshore

NH76NW 23
 NH 7101 6841
 INVERGORDON, Ferry Pier
 Pier designed by Telford
 19th century AD; 1803-21
 Good
 Nil

NH 7151 6876
 INVERGORDON
 Timber jetty posts
 Uncertain
 Poor
 Monitor

NH 7177 6902
 INVERGORDON
 Slipway
 20th century AD
 Good
 Nil

NH 7300 7021
 SALT BURN
 Concrete breakwater and pipe
 20th century AD
 Poor
 Nil

NH 7442 7158
 POLLO HOUSE
 Fish trap mound
 Uncertain
 Good
 Survey

Sites in the Hinterland

NH76NW 22
 NH 7079 6836
 INVERGORDON, 37 Shore Rd
 Warehouse
 18th/19th century AD
 Good
 Nil

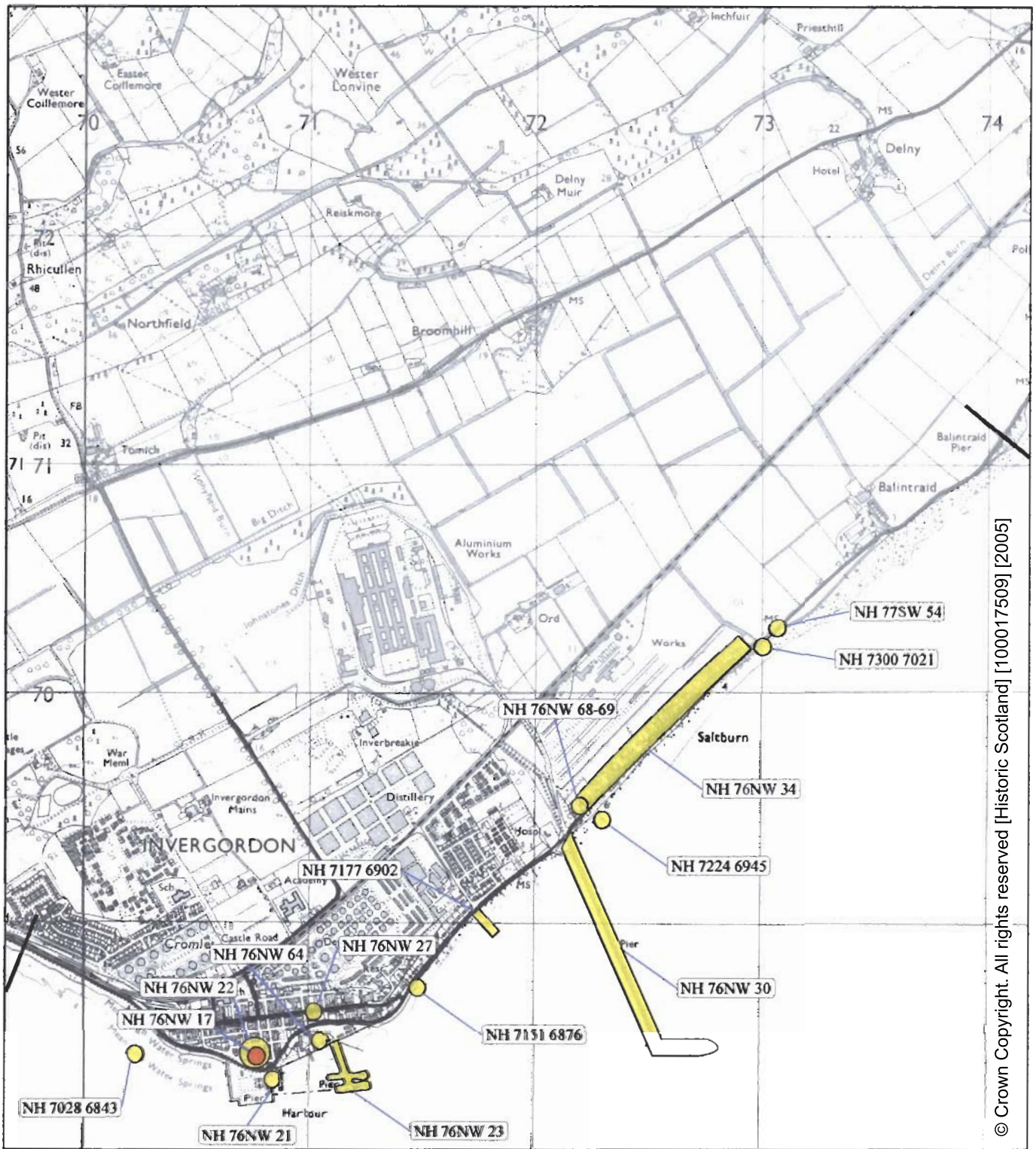
NH76NW 17 - Listed B
 NH 7096 6849
 INVERGORDON, Shore Rd
 Giral or storehouse
 17th/18th century AD
 Good
 Nil

NH76NW 27
 NH 7101 6856
 INVERGORDON, High St
 Warehouse
 18th/19th century AD
 Good
 Nil

NH76NW 68-69
 NH 7220 6948
 SALT BURN
 Residential buildings
 19th century AD
 Good
 Nil

NH76NW 34
 NH 7255 6983 centre
 SALT BURN
 Village
 19th century AD
 Good
 Nil

NH77SW 54
 NH 7305 7037
 SALT BURN
 Anti-aircraft battery (site of)
 20th century AD; WWII
 Poor
 Monitor



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MORAY FIRTH SURVEY Grid ref: NH 70-74/68-73








1:25 000

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BUILT HERITAGE AND ARCHAEOLOGY

Assessment period: September 1998

Key:

- | | | | |
|--|--|---|---|
|  | Protected Ancient Monument,
or area of designated wreck |  | Other known Ancient Monuments,
or Undesignated wreck |
|  | Listed Historic Building |  | Designated Landscape |
|  | Monument formally proposed by
Historic Scotland for scheduling,
or wreck for designation |  | Insufficient information;
more work needed |
| | |  | Probably archaeologically sterile |



