

MAP 4 - CROMBIE TO LIMEKILNS

- **Built heritage and archaeology** - From Crombie to Aberlyn, the foreshore is not accessible due to the regulations of the bordering landowner, the Ministry of Defence. Although the area has not been walked, it is reasonable to suggest that this area has moderate to high potential as a location of archaeological remains given that the burial environment appears favourable. If the bordering coastal sectors provide a useful indicator, likely sites might include fish-traps and disused piers. In the vicinity of Charlestown and Limekilns many of the sites located originate from the production of lime, limestone and coal since the early industrial period, an industry which was vital to both villages and which played an important role in the agricultural improvements of the 18th and 19th centuries in providing lime for soil fertilisation and for the construction of new farm buildings. This industry was based on the existence of a seam of natural limestone which ran parallel to the north shore of the Firth of Forth that was capable of producing a durable high grade product. Exploitation of this resource by the 5th Earl of Elgin saw the construction of a new harbour (NT08SE31: site description 6) which is now an Archaeological Site of Regional Importance (ASRI), as well as a tramway between the quarry and kilns (now lifted). The present range of draw kilns (NT08SE32) dating to between 1777 and 1778, are constructed of dressed ashlar and many have been re-faced (Walker and Ritchie 1987,30). Elsewhere, aerial photographs indicate that there may be a fort behind the foreshore at Aberlyn (NT08SE15: NMRS Records) although there were no signs of this on the ground. The majority of the other sites located during the survey are disused piers, typically of 17th-19th century date and used at different periods in the lime industry, and mostly before the 'new' harbour at Charlestown (NT08SE31) was completed. The majority of these need no further investigation but the deteriorating condition of a loose stone pier at NT06878340 may be cause for concern and this site should be surveyed.
- **Hinterland geology and coastal geomorphology; Erosion class** - Mud mixed with sand and gravel continue to dominate the coastal geomorphology of this sector although bedrock outcrops are exposed in places. Accumulations of sediment overlying the rock platform are at their greatest in Ironmill Bay which has acted as a natural trap for sediment accretion. Behind the coastal edge, there is evidence of a degraded cliff west of Charlestown which suggests the position of a former coastline. The resulting raised beach deposits are mostly stable along the coastal edge and in many places, sea-defences have been deployed to protect the coastal edge suggesting that erosion has been a factor in the past. The only instances where ongoing erosion was visible include a two short sections of unprotected coastal edge to the east of Charlestown harbour and at Bruce Haven which are both fully exposed to easterly storm conditions (Erosion class sector #4).

MAP 4: CROMBIE TO LIMEKILNS

EROSION UNITS

1
 NT045841
 0.4 km
 Accreting or stable
Mud flats accreting along coastal defence and up against Crombie Pier.

2
 NT048840
 0.18 km
 Not seen
Coastal defences and pier not walked due to lack of access to MOD grounds of Crombie Pier.

3
 NT049841
 0.2 km
 Definitely accreting
Mud flats accreting on coastal defences. Shorefront is owned by MOD and was therefore not walked but viewed from a distance.

4
 NT058841
 1.5 km
 Accreting or stable
Mud flats accreting on coastal defences. Not walked but viewed from a distance.

5
 NT063834
 0.25 km
 Stable
West pier of Charlestown Harbour

6
 NT065835
 0.25 km
 Accreting or stable
Charlestown Harbour may be silting up.

7
 NT066853
 0.25 km
 Stable
East pier of Charlestown Harbour.

8
 NT067834
 0.15 km
 Eroding or stable
Soil and rock cliffs fronted by mud flats.

9
 NT071835
 0.6 km
 Accreting or stable
Coastal defence fronted by mud flats.

10
 NT074834
 0.05 km
 Stable
Stone pier at Limekilns

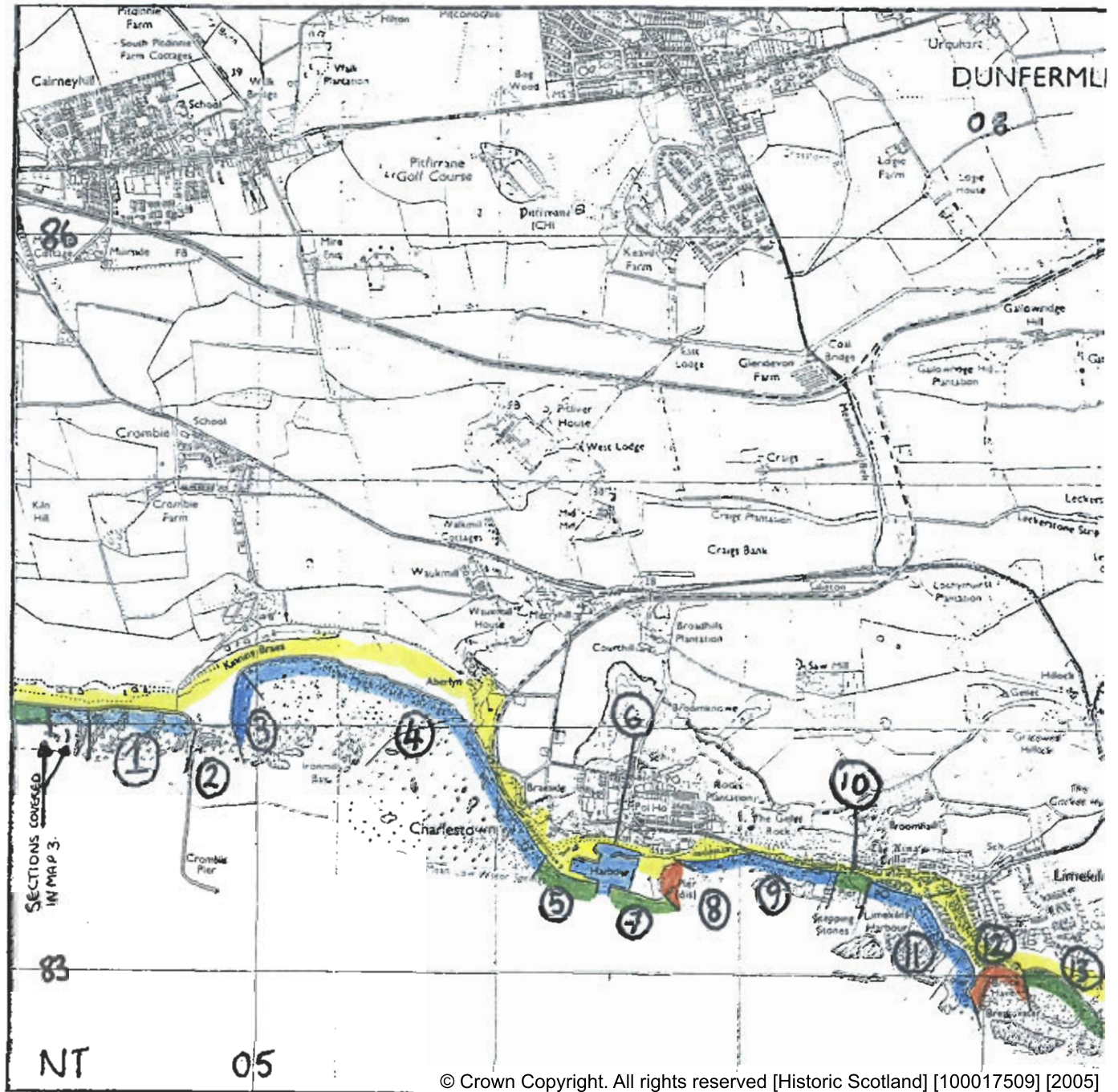
11
 NT077833
 0.6 km
 Accreting or stable
Coastal defences along the promenade; mud flats and bedrock in front.

12
 NT081830
 0.2 km
 Eroding or stable
Bruce Haven is land-fill fronted by mud flat and bedrock.

13
 NT084829
 0.5 km
 Stable
Coastal defences fronted by mud flat and bedrock.

MAP CLASS: EROSION
 (Assessment date: 26 January 1996)
 NT08/18. Scale 1: 25 000

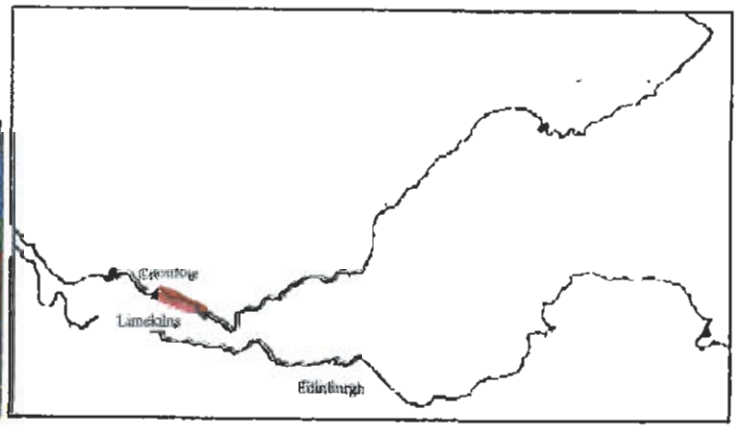
CROMBIE TO LIMEKILNS



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KEY

| Erosion class | Staedtler colour | colour |
|----------------------------|------------------|--------|
| Definitely Accreting | ultramarine blue | |
| Accreting or stable | light blue | |
| Stable | light green | |
| Eroding or stable | orange | |
| Definitely Eroding | scarlet | |
| Both accreting and eroding | purple | |
| No access | blank | |
| Land below 10m | canary yellow | |



Maritime File

Historic Scotland

MAP 4: CROMBIE TO LIMEKILNS

GEOLOGY UNITS

1

NT055842

0.4 km

Mainly rock platform

Low edge (< 5 metres)

Raised beach and marine deposits

West of Crombie Pier, mud on a rock platform with a low coastal edge in front of raised beach deposits

2

NT048840

0.1km

Mainly rock platform

Man made barrier

Raised beach and marine deposits

Rock platform around Crombie Pier with low coastal edge and man made barrier behind Pier.

3

NT075834

2.5 km

Mainly alluvial/marine mud

Man made barrier

Raised beach and marine deposits

Foreshore mainly comprises alluvial mud and sand which has accumulated in Ironmill Bay, possibly overlying bed-rock which is visible in localised areas. Raised beach materials behind a man-made barrier which extends from the west side of Ironmill Bay and takes in the walls of Charlestown Harbour.

4

NT067834

0.25 km

Mainly alluvial/marine mud

Low edge (< 5 metres)

Raised beach and marine deposits

Foreshore consists of sandy mud on rock platform base with an unprotected low edge shorefront to the east of Charlestown harbour.

5

NT071835

0.4 km

Mainly alluvial/marine mud

Man made barrier

Raised beach and marine deposits

Foreshore consists of sandy mud on rock platform base with a man made barrier and raised beach behind.

6

NT075832

0.8 km

Mainly rock platform

Man made barrier

Raised beach and marine deposits

Piers by Limekilns harbour and west of Bruce Haven and sea-wall along Limekilns sea-front.

7

NT083829

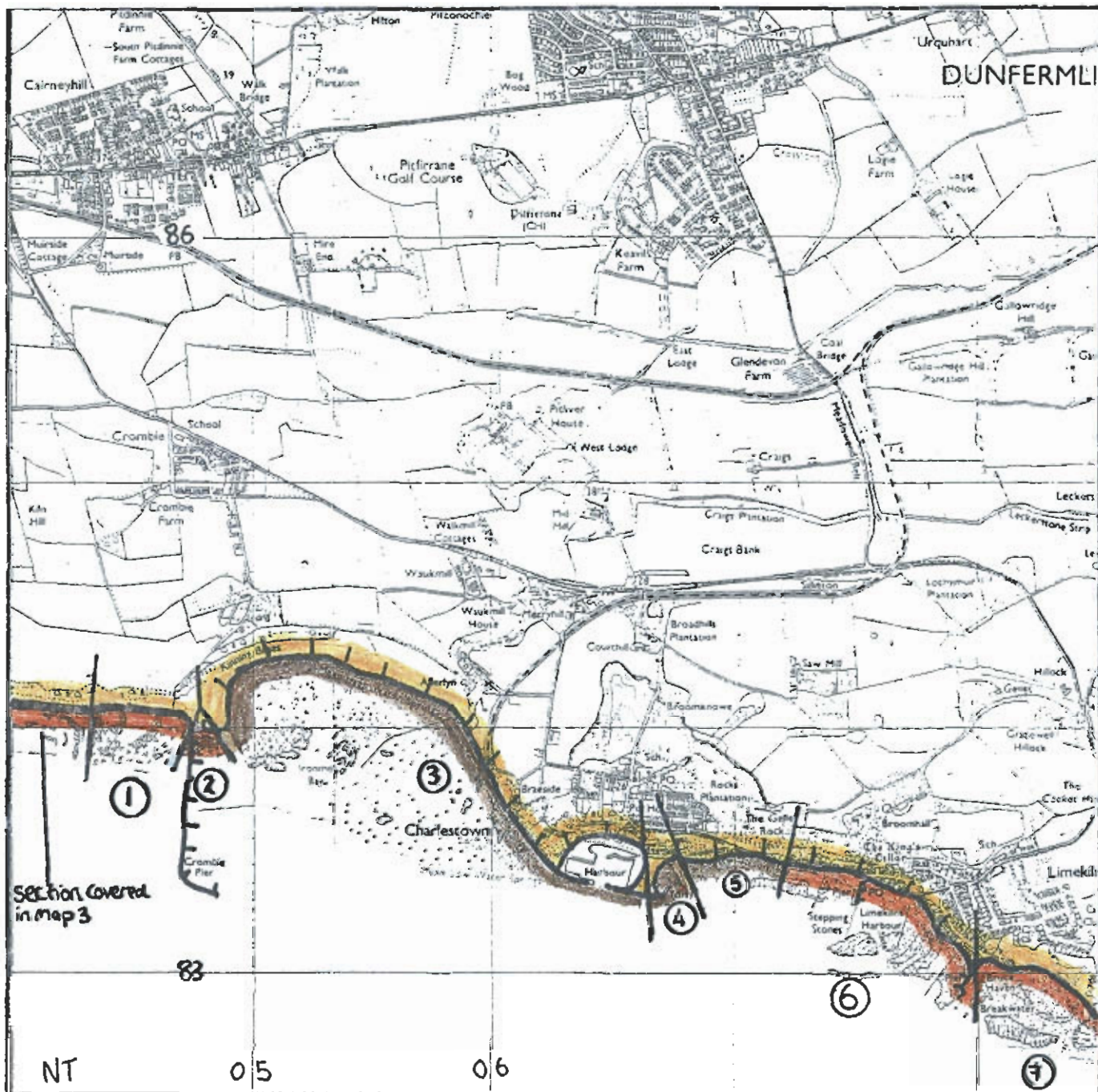
0.5 km

Mainly rock platform

Low edge (< 5 metres)

Raised beach and marine deposits

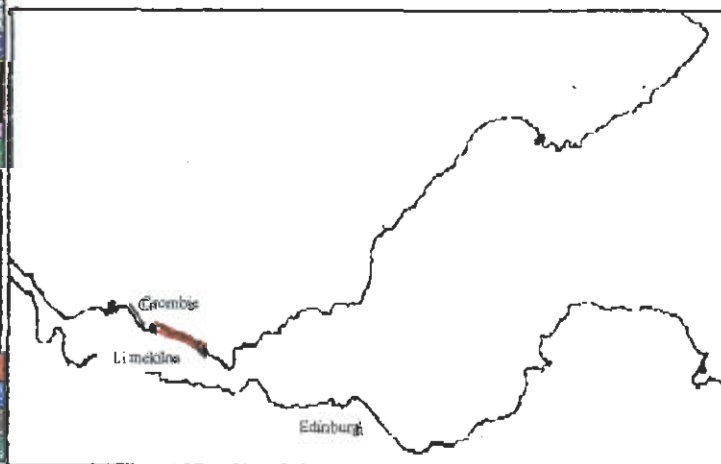
East of Bruce Haven Harbour, sea-wall ends and low coast edge is un-protected.



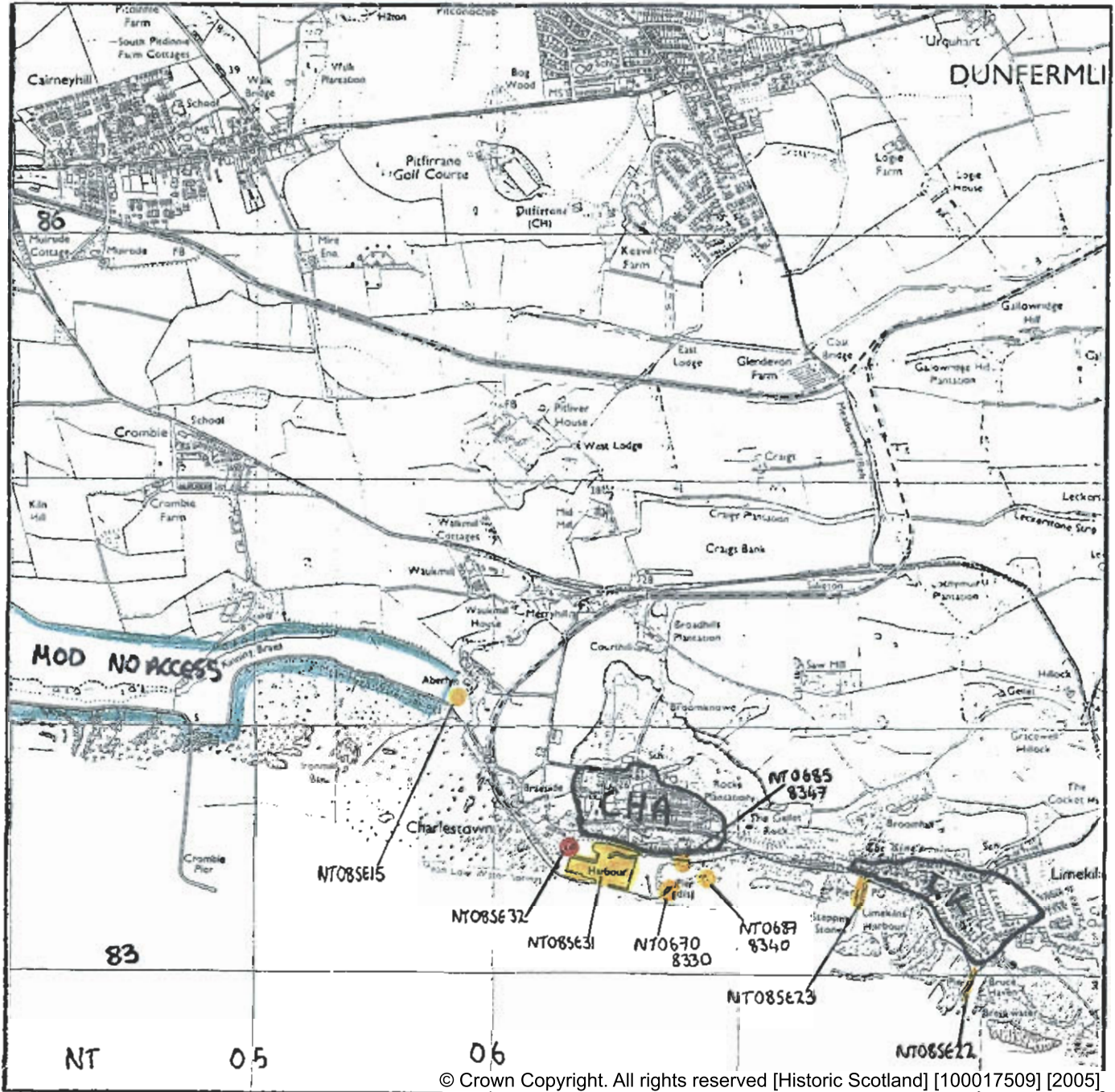
KEY

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| Hinterland Geology | Staedtler colour | |
|---------------------------------------|------------------------|--|
| Cliff, boulder clay | light grey | |
| Cliff, boulder clay over visible rock | Caran D'acha violet | |
| Raised beach and marine deposits | golden brown | |
| Blown sand | peach | |
| Glacial sand and gravel | magenta | |
| Alluvium | grass green | |
| Coast Edge | | |
| Low edge (<5m) | thin black line | |
| Cliff (>5m) | solid black line | |
| Man-made barrier | black line with spires | |
| Shingle beach | small circles | |
| Human disturbance | black carats | |
| Coastal Geomorphology | | |
| Mainly rock platform | vermillion | |
| Mainly sand | indigo | |
| Mainly alluvial/marine mud | sienna brown | |
| Marsh | lime green | |



| | | |
|---|--|--|
| <p>MAP 4: CROMBIE TO LIMEKILNS</p> <p>BUILT HERITAGE AND ARCHAEOLOGY</p> | <p><i>Nil</i></p> | <p>NT08SE28 LIMEKILNS; 19-21 MAIN ST; PIERHEAD HOUSE HOUSE Uncertain Not seen <i>Nil</i></p> |
| <p>Sites behind the foreshore at Charlestown (Cha)</p> <p>NT08SE35 CHARLESTOWN VILLAGE VILLAGE Uncertain Not seen <i>Nil</i></p> <p>NT08SE40 CHARLESTOWN;BRAESIDE HOUSE Uncertain Not seen <i>Nil</i></p> <p>NT08SE19 CHARLESTOWN;ELGIN BRIDGE RAILWAY BRIDGE Uncertain Not seen <i>Nil</i></p> <p>NT08SE35.4 CHARLESTOWN;SOUTH ROW COT- TAGES COTTAGES Uncertain Not seen <i>Nil</i></p> <p>NT08SE35.8 CHARLESTOWN; THE GREEN GREEN Uncertain Not seen <i>Nil</i></p> <p>NT08SE 34 CHARLESTOWN; EASTER COTTAGE HOUSE Uncertain Not seen <i>Nil</i></p> <p>NT08SE35.5 CHARLESTOWN; HALL ROW COT- TAGES COTTAGES Uncertain Not seen <i>Nil</i></p> | <p>NT08SE32 CHARLESTOWN; LIMEKILNS LIMEKILNS. PROTECTED ANCIENT MONUMENT 17th - 19th Century Fair <i>Nil</i></p> <p>NT08SE 31 CHARLESTOWN HARBOUR TRANSPORT & COMMUNICATIONS HARBOUR *See detailed site description 6 ARCHAEOLOGICAL SITE OF REGIONAL IMPORTANCE 17th - 19th Century Fair <i>Survey, Monitor</i></p> <p>NT06708330 Charlestown Pier. Stone; 70.0 metres long. 20th Century Fair <i>Nil</i></p> <p>NT06858347 Charlestown Pier. loose stone. Uncertain Poor <i>Survey</i></p> <p>NT06878340 Charlestown Feature in Charlestown harbour, possibly wooden piers. Uncertain Fair <i>Nil</i></p> <p>NT08SE23 LIMEKILNS; PIER TRANSPORT & COMMUNICATIONS/ SHIPPING/ PIER Uncertain Fair <i>Nil</i></p> <p>NT08SE22 LIMEKILNS; BRUCE HAVEN; CAPER- NAUM PIER TRANSPORT/COMMUNICATIONS PIER, 17th - 19th Century Fair <i>Nil</i></p> | <p>NT08SE24 LIMEKILNS; 26 MAIN STREET HOUSE Uncertain Not seen <i>Nil</i></p> <p>NT08SE2 LIMEKILNS; THE KINGS CELLAR WAREHOUSE; SCHOOL Uncertain Not seen <i>Nil</i></p> <p>NT08SE27 LIMEKILNS; 9; 11 AND 13 MAIN ST HOUSES Uncertain Not seen <i>Nil</i></p> <p>NT08SE26 LIMEKILNS; 12 AND 14 MAIN STREET LIME KILN Uncertain Not seen <i>Nil</i></p> <p>NT08SE25 LIMEKILNS; CHURCH ST; LIMEKILNS MANSE MANSE Uncertain Not seen <i>Nil</i></p> <p>NT08SE29 LIMEKILNS; SANDLANDS; FORTH COTTAGE COTTAGE Uncertain Not seen <i>Nil</i></p> |
| <p>Sites along the coastal edge</p> <p>NT08SE15 WAUKMILL; CROMBIE FORT;PROMONTORY;CROPMARK ARCHAEOLOGICAL SITE OF REGIONAL IMPORTANCE Uncertain Fair</p> | <p>Sites behind the foreshore at Limekilns (LA)</p> <p>NT08SE30 LIMEKILNS; 7 HALKETS HALL HOUSE Uncertain Not seen <i>Nil</i></p> | |



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KEY

| Site location | Symbol | Standard colour | Significance |
|-----------------------|-----------------|-----------------|---|
| NGB: e.g. AIC12345678 | solid roundel | carmine | Protected Ancient Monument |
| | cross | carmine | Listed Historic Building |
| | open roundel | carmine | Monument formally proposed by Historic Scotland for designation |
| | solid roundel | yellow ochre | Other known Ancient Monument |
| NWB: e.g. NT28NE13 | clashed outline | yellow ochre | Designated Landscape |
| | roundel open | yellow ochre | Undesignated Wreck |
| | area | green | Insufficient information, more work needed (no access, or not walked) |
| | area | blue | Probably archaeologically sterile |

