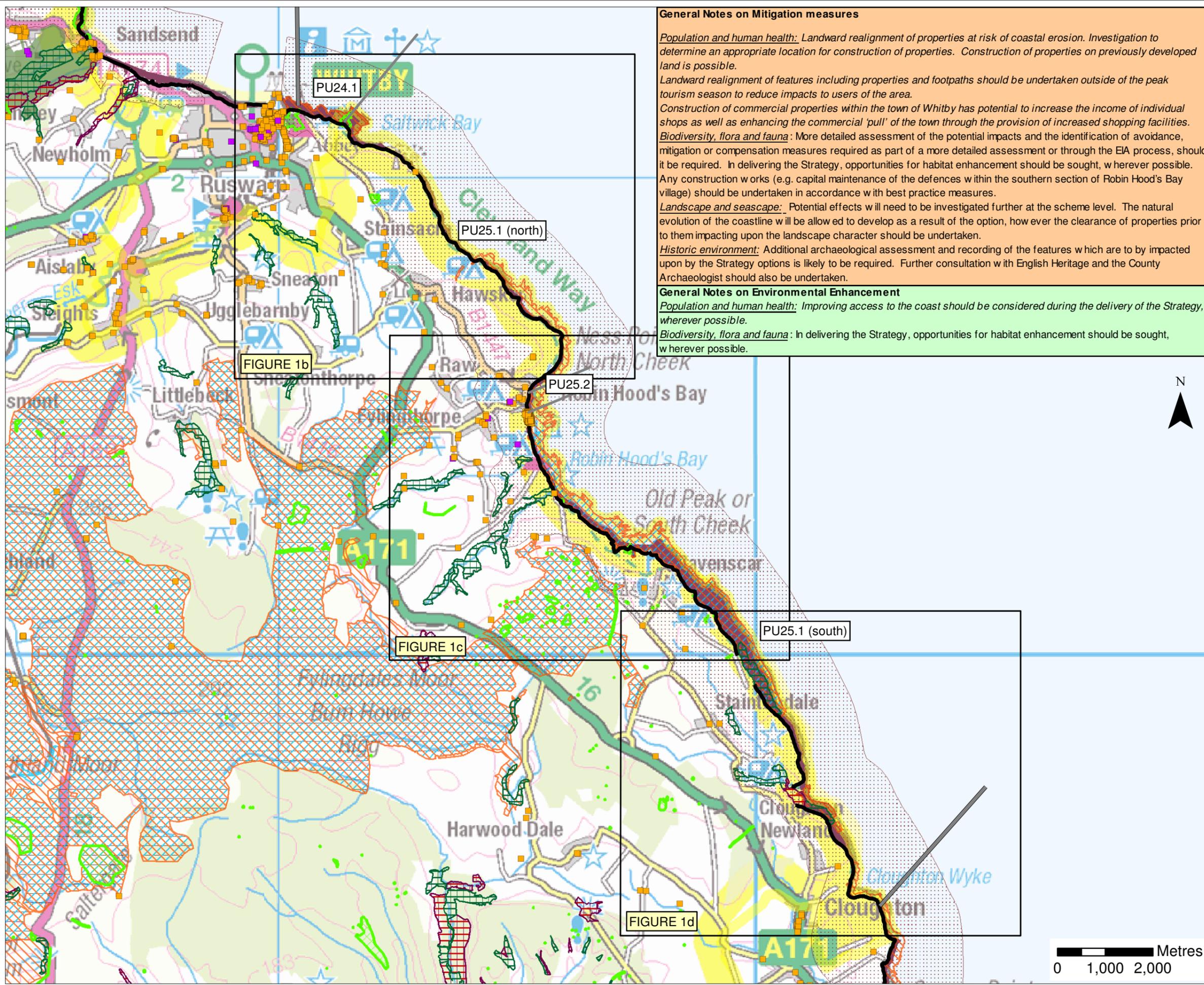

Robin Hood's Bay Coastal Strategy

Appendix C

Indicative Landscape Plans

This appendix contains the Indicative Landscape Plans (Figures 1 to 4), which present the potential environmental risks and opportunities that have been identified for Robin Hood's Bay Strategy.



General Notes on Mitigation measures

Population and human health: Landward realignment of properties at risk of coastal erosion. Investigation to determine an appropriate location for construction of properties. Construction of properties on previously developed land is possible.

Landward realignment of features including properties and footpaths should be undertaken outside of the peak tourism season to reduce impacts to users of the area.

Construction of commercial properties within the town of Whitby has potential to increase the income of individual shops as well as enhancing the commercial 'pull' of the town through the provision of increased shopping facilities.

Biodiversity, flora and fauna: More detailed assessment of the potential impacts and the identification of avoidance, mitigation or compensation measures required as part of a more detailed assessment or through the EIA process, should it be required. In delivering the Strategy, opportunities for habitat enhancement should be sought, wherever possible.

Any construction works (e.g. capital maintenance of the defences within the southern section of Robin Hood's Bay village) should be undertaken in accordance with best practice measures.

Landscape and seascape: Potential effects will need to be investigated further at the scheme level. The natural evolution of the coastline will be allowed to develop as a result of the option, however the clearance of properties prior to them impacting upon the landscape character should be undertaken.

Historic environment: Additional archaeological assessment and recording of the features which are to be impacted upon by the Strategy options is likely to be required. Further consultation with English Heritage and the County Archaeologist should also be undertaken.

General Notes on Environmental Enhancement

Population and human health: Improving access to the coast should be considered during the delivery of the Strategy, wherever possible.

Biodiversity, flora and fauna: In delivering the Strategy, opportunities for habitat enhancement should be sought, wherever possible.

Environmental Designations

- North York Moors National Park
- SSSI
- SPA
- SAC
- Ancient & Semi-Natural Woodland
- Ancient Replanted Woodland

BAP Habitats

- Maritime Cliffs and Slopes

Historic Environment

- Listed Buildings
 - Grade I
 - Grade II
 - Grade II*
- Scheduled Ancient Monument
- Registered Parks & Gardens
- HeritageCoast

- Strategy Frontage Boundary
- Policy Unit Boundary
- Policy Unit Name
- Do Nothing - 100yrs Erosion line



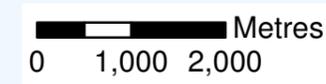
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Indicative Landscape Plan:
General Overview

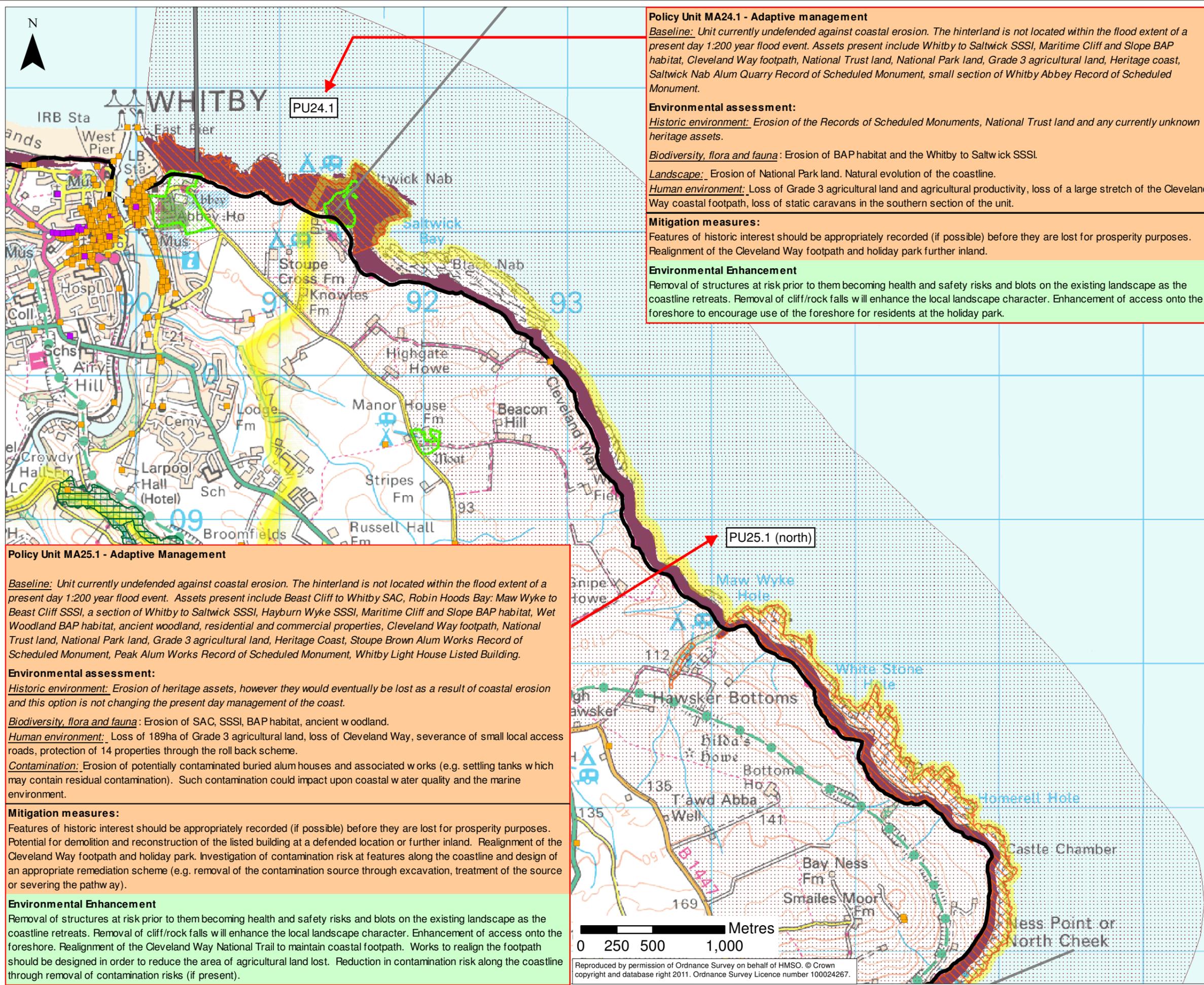
Project:
Robin Hood's Bay Coastal
Strategy

Client:
Scarborough Borough Council

Date: August 2012	Scale at A3: 1:75,000
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Figure: 1a	Drawn: TC	Checked: SR
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Policy Unit MA24.1 - Adaptive management
Baseline: Unit currently undefended against coastal erosion. The hinterland is not located within the flood extent of a present day 1:200 year flood event. Assets present include Whitby to Saltwick SSSI, Maritime Cliff and Slope BAP habitat, Cleveland Way footpath, National Trust land, National Park land, Grade 3 agricultural land, Heritage coast, Saltwick Nab Alum Quarry Record of Scheduled Monument, small section of Whitby Abbey Record of Scheduled Monument.

Environmental assessment:
Historic environment: Erosion of the Records of Scheduled Monuments, National Trust land and any currently unknown heritage assets.
Biodiversity, flora and fauna: Erosion of BAP habitat and the Whitby to Saltwick SSSI.
Landscape: Erosion of National Park land. Natural evolution of the coastline.
Human environment: Loss of Grade 3 agricultural land and agricultural productivity, loss of a large stretch of the Cleveland Way coastal footpath, loss of static caravans in the southern section of the unit.

Mitigation measures:
 Features of historic interest should be appropriately recorded (if possible) before they are lost for prosperity purposes. Realignment of the Cleveland Way footpath and holiday park further inland.

Environmental Enhancement
 Removal of structures at risk prior to them becoming health and safety risks and blots on the existing landscape as the coastline retreats. Removal of cliff/rock falls will enhance the local landscape character. Enhancement of access onto the foreshore to encourage use of the foreshore for residents at the holiday park.

Policy Unit MA25.1 - Adaptive Management
Baseline: Unit currently undefended against coastal erosion. The hinterland is not located within the flood extent of a present day 1:200 year flood event. Assets present include Beast Cliff to Whitby SAC, Robin Hood's Bay: Maw Wyke to Beast Cliff SSSI, a section of Whitby to Saltwick SSSI, Hayburn Wyke SSSI, Maritime Cliff and Slope BAP habitat, Wet Woodland BAP habitat, ancient woodland, residential and commercial properties, Cleveland Way footpath, National Trust land, National Park land, Grade 3 agricultural land, Heritage Coast, Stoupe Brown Alum Works Record of Scheduled Monument, Peak Alum Works Record of Scheduled Monument, Whitby Light House Listed Building.

Environmental assessment:
Historic environment: Erosion of heritage assets, however they would eventually be lost as a result of coastal erosion and this option is not changing the present day management of the coast.
Biodiversity, flora and fauna: Erosion of SAC, SSSI, BAP habitat, ancient woodland.
Human environment: Loss of 189ha of Grade 3 agricultural land, loss of Cleveland Way, severance of small local access roads, protection of 14 properties through the roll back scheme.
Contamination: Erosion of potentially contaminated buried alum houses and associated works (e.g. settling tanks which may contain residual contamination). Such contamination could impact upon coastal water quality and the marine environment.

Mitigation measures:
 Features of historic interest should be appropriately recorded (if possible) before they are lost for prosperity purposes. Potential for demolition and reconstruction of the listed building at a defended location or further inland. Realignment of the Cleveland Way footpath and holiday park. Investigation of contamination risk at features along the coastline and design of an appropriate remediation scheme (e.g. removal of the contamination source through excavation, treatment of the source or severing the pathway).

Environmental Enhancement
 Removal of structures at risk prior to them becoming health and safety risks and blots on the existing landscape as the coastline retreats. Removal of cliff/rock falls will enhance the local landscape character. Enhancement of access onto the foreshore. Realignment of the Cleveland Way National Trail to maintain coastal footpath. Works to realign the footpath should be designed in order to reduce the area of agricultural land lost. Reduction in contamination risk along the coastline through removal of contamination risks (if present).

- Environmental Designations**
- North York Moors National Park
 - SSSI
 - SPA
 - SAC
 - Ancient & Semi-Natural Woodland
 - Ancient Replanted Woodland
- BAP Habitats**
- Maritime Cliffs and Slopes
- Historic Environment**
- Listed Buildings
 - Grade I
 - Grade II
 - Grade II*
 - Scheduled Ancient Monument
 - Registered Parks & Gardens
 - HeritageCoast
- Other Symbols**
- Strategy Frontage Boundary
 - Policy Unit Boundary
 - Policy Unit Name
 - Do Nothing - 100yrs Erosion line

Title:
 Indicative Landscape Plan:
 Policy Units 24.1 and 25.1
 (north)

Project:
 Robin Hood's Bay Coastal
 Strategy

Client:
 Scarborough Borough Council

Date:
 August 2012

Scale at A3:
 1:24,920

Figure:
 1b

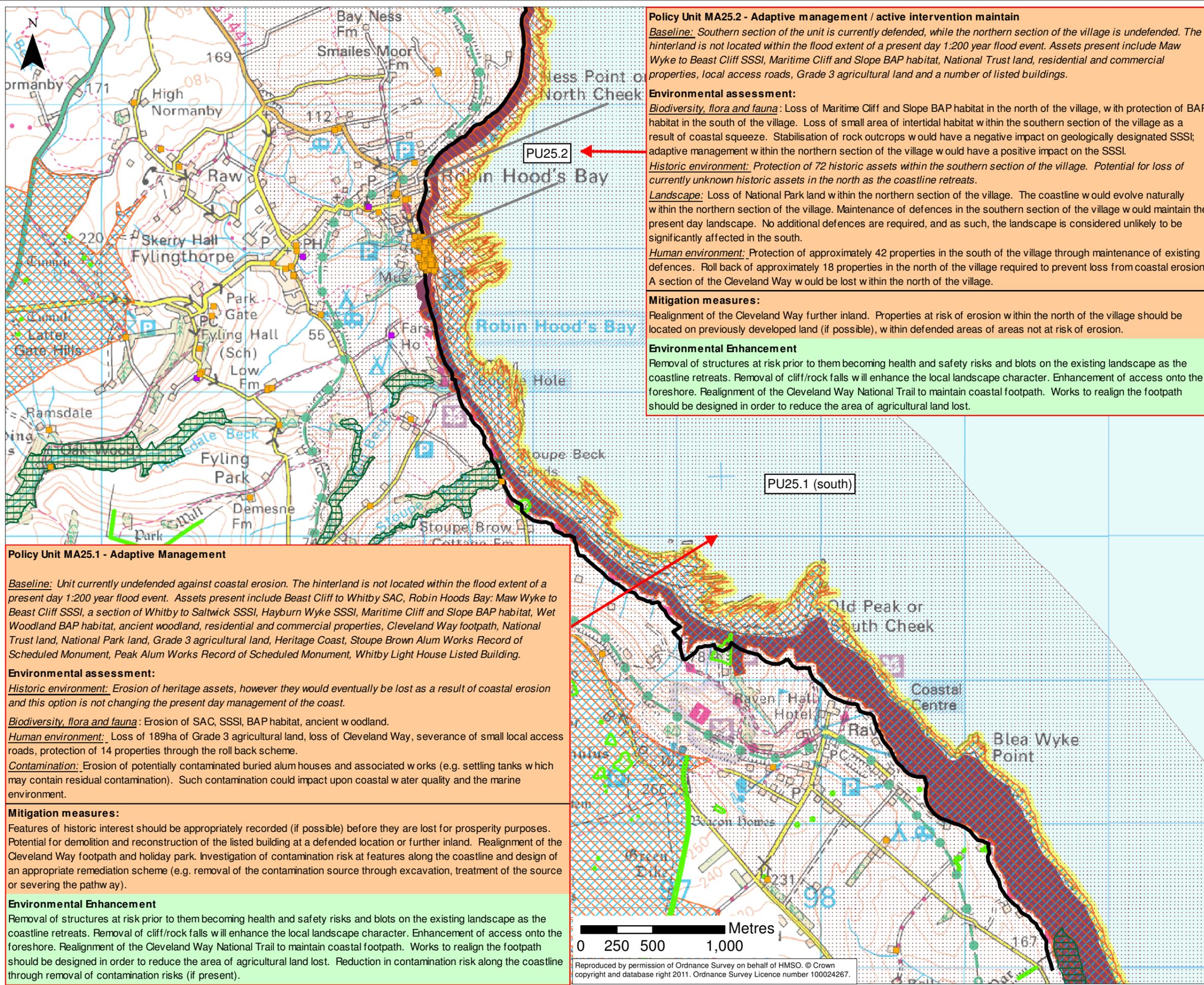
Drawn:
 TC

Checked:
 SR



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Policy Unit MA25.2 - Adaptive management / active intervention maintain
Baseline: Southern section of the unit is currently defended, while the northern section of the village is undefended. The hinterland is not located within the flood extent of a present day 1:200 year flood event. Assets present include Maw Wyke to Beast Cliff SSSI, Maritime Cliff and Slope BAP habitat, National Trust land, residential and commercial properties, local access roads, Grade 3 agricultural land and a number of listed buildings.

Environmental assessment:
Biodiversity, flora and fauna: Loss of Maritime Cliff and Slope BAP habitat in the north of the village, with protection of BAP habitat in the south of the village. Loss of small area of intertidal habitat within the southern section of the village as a result of coastal squeeze. Stabilisation of rock outcrops would have a negative impact on geologically designated SSSI; adaptive management within the northern section of the village would have a positive impact on the SSSI.

Historic environment: Protection of 72 historic assets within the southern section of the village. Potential for loss of currently unknown historic assets in the north as the coastline retreats.

Landscape: Loss of National Park land within the northern section of the village. The coastline would evolve naturally within the northern section of the village. Maintenance of defences in the southern section of the village would maintain the present day landscape. No additional defences are required, and as such, the landscape is considered unlikely to be significantly affected in the south.

Human environment: Protection of approximately 42 properties in the south of the village through maintenance of existing defences. Roll back of approximately 18 properties in the north of the village required to prevent loss from coastal erosion. A section of the Cleveland Way would be lost within the north of the village.

Mitigation measures:
 Realignment of the Cleveland Way further inland. Properties at risk of erosion within the north of the village should be located on previously developed land (if possible), within defended areas or areas not at risk of erosion.

Environmental Enhancement
 Removal of structures at risk prior to them becoming health and safety risks and blots on the existing landscape as the coastline retreats. Removal of cliff/rock falls will enhance the local landscape character. Enhancement of access onto the foreshore. Realignment of the Cleveland Way National Trail to maintain coastal footpath. Works to realign the footpath should be designed in order to reduce the area of agricultural land lost.

Policy Unit MA25.1 - Adaptive Management

Baseline: Unit currently undefended against coastal erosion. The hinterland is not located within the flood extent of a present day 1:200 year flood event. Assets present include Beast Cliff to Whitby SAC, Robin Hoods Bay: Maw Wyke to Beast Cliff SSSI, a section of Whitby to Saltwick SSSI, Hayburn Wyke SSSI, Maritime Cliff and Slope BAP habitat, Wet Woodland BAP habitat, ancient woodland, residential and commercial properties, Cleveland Way footpath, National Trust land, National Park land, Grade 3 agricultural land, Heritage Coast, Stoupe Brown Alum Works Record of Scheduled Monument, Peak Alum Works Record of Scheduled Monument, Whitby Light House Listed Building.

Environmental assessment:
Historic environment: Erosion of heritage assets, however they would eventually be lost as a result of coastal erosion and this option is not changing the present day management of the coast.

Biodiversity, flora and fauna: Erosion of SAC, SSSI, BAP habitat, ancient woodland.

Human environment: Loss of 189ha of Grade 3 agricultural land, loss of Cleveland Way, severance of small local access roads, protection of 14 properties through the roll back scheme.

Contamination: Erosion of potentially contaminated buried alum houses and associated works (e.g. settling tanks which may contain residual contamination). Such contamination could impact upon coastal water quality and the marine environment.

Mitigation measures:
 Features of historic interest should be appropriately recorded (if possible) before they are lost for prosperity purposes. Potential for demolition and reconstruction of the listed building at a defended location or further inland. Realignment of the Cleveland Way footpath and holiday park. Investigation of contamination risk at features along the coastline and design of an appropriate remediation scheme (e.g. removal of the contamination source through excavation, treatment of the source or severing the pathway).

Environmental Enhancement
 Removal of structures at risk prior to them becoming health and safety risks and blots on the existing landscape as the coastline retreats. Removal of cliff/rock falls will enhance the local landscape character. Enhancement of access onto the foreshore. Realignment of the Cleveland Way National Trail to maintain coastal footpath. Works to realign the footpath should be designed in order to reduce the area of agricultural land lost. Reduction in contamination risk along the coastline through removal of contamination risks (if present).

- Environmental Designations**
- North York Moors National Park
 - SSSI
 - SPA
 - SAC
 - Ancient & Semi-Natural Woodland
 - Ancient Replanted Woodland
- BAP Habitats**
- Maritime Cliffs and Slopes
- Historic Environment**
- Listed Buildings
 - Grade I
 - Grade II
 - Grade II*
 - Scheduled Ancient Monument
 - Registered Parks & Gardens
 - HeritageCoast
- Other Symbols**
- Strategy Frontage Boundary
 - Policy Unit Boundary
 - Policy Unit Name
 - Do Nothing - 100yrs Erosion line

Title:
 Indicative Landscape Plan:
 Policy Units 25.1 (south)
 and 25.2

Project:
 Robin Hood's Bay Coastal
 Strategy

Client:
 Scarborough Borough Council

Date:
 August 2012

Scale at A3:
 1:24,920

Figure:
 1c

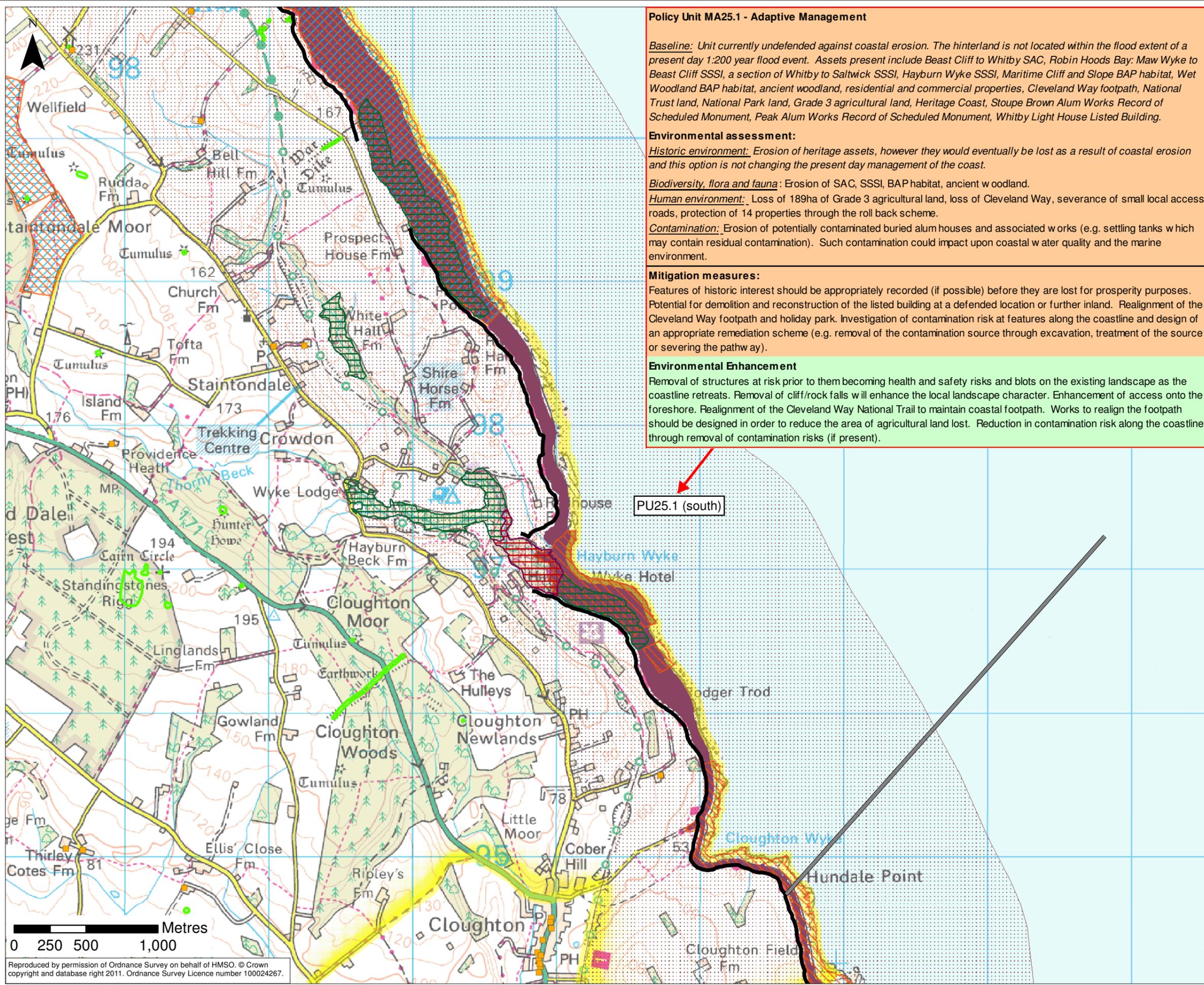
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Checked:
 SR



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Policy Unit MA25.1 - Adaptive Management

Baseline: Unit currently undefended against coastal erosion. The hinterland is not located within the flood extent of a present day 1:200 year flood event. Assets present include Beast Cliff to Whitby SAC, Robin Hoods Bay: Maw Wyke to Beast Cliff SSSI, a section of Whitby to Saltwick SSSI, Hayburn Wyke SSSI, Maritime Cliff and Slope BAP habitat, Wet Woodland BAP habitat, ancient woodland, residential and commercial properties, Cleveland Way footpath, National Trust land, National Park land, Grade 3 agricultural land, Heritage Coast, Stoupe Brown Alum Works Record of Scheduled Monument, Peak Alum Works Record of Scheduled Monument, Whitby Light House Listed Building.

Environmental assessment:

Historic environment: Erosion of heritage assets, however they would eventually be lost as a result of coastal erosion and this option is not changing the present day management of the coast.

Biodiversity, flora and fauna: Erosion of SAC, SSSI, BAP habitat, ancient woodland.

Human environment: Loss of 189ha of Grade 3 agricultural land, loss of Cleveland Way, severance of small local access roads, protection of 14 properties through the roll back scheme.

Contamination: Erosion of potentially contaminated buried alum houses and associated works (e.g. settling tanks which may contain residual contamination). Such contamination could impact upon coastal water quality and the marine environment.

Mitigation measures:

Features of historic interest should be appropriately recorded (if possible) before they are lost for prosperity purposes. Potential for demolition and reconstruction of the listed building at a defended location or further inland. Realignment of the Cleveland Way footpath and holiday park. Investigation of contamination risk at features along the coastline and design of an appropriate remediation scheme (e.g. removal of the contamination source through excavation, treatment of the source or severing the pathway).

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Removal of structures at risk prior to them becoming health and safety risks and blots on the existing landscape as the coastline retreats. Removal of cliff/rock falls will enhance the local landscape character. Enhancement of access onto the foreshore. Realignment of the Cleveland Way National Trail to maintain coastal footpath. Works to realign the footpath should be designed in order to reduce the area of agricultural land lost. Reduction in contamination risk along the coastline through removal of contamination risks (if present).

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- Maritime Cliffs and Slopes
- Historic Environment**
- Listed Buildings
- Grade I
 - Grade II
 - Grade II*
- Scheduled Ancient Monument
 - Registered Parks & Gardens
 - HeritageCoast
- Strategy Frontage Boundary
- Policy Unit Boundary
- 25.1** Policy Unit Name
- Do Nothing - 100yrs Erosion line

Title:
Indicative Landscape Plan:
Policy Units 25.1 (south)

Project:
Robin Hood's Bay Coastal
Strategy

Client:
Scarborough Borough Council

Date:
August 2012

Scale at A3:
1:24,920

Figure:
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Drawn:
TC

Checked:
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