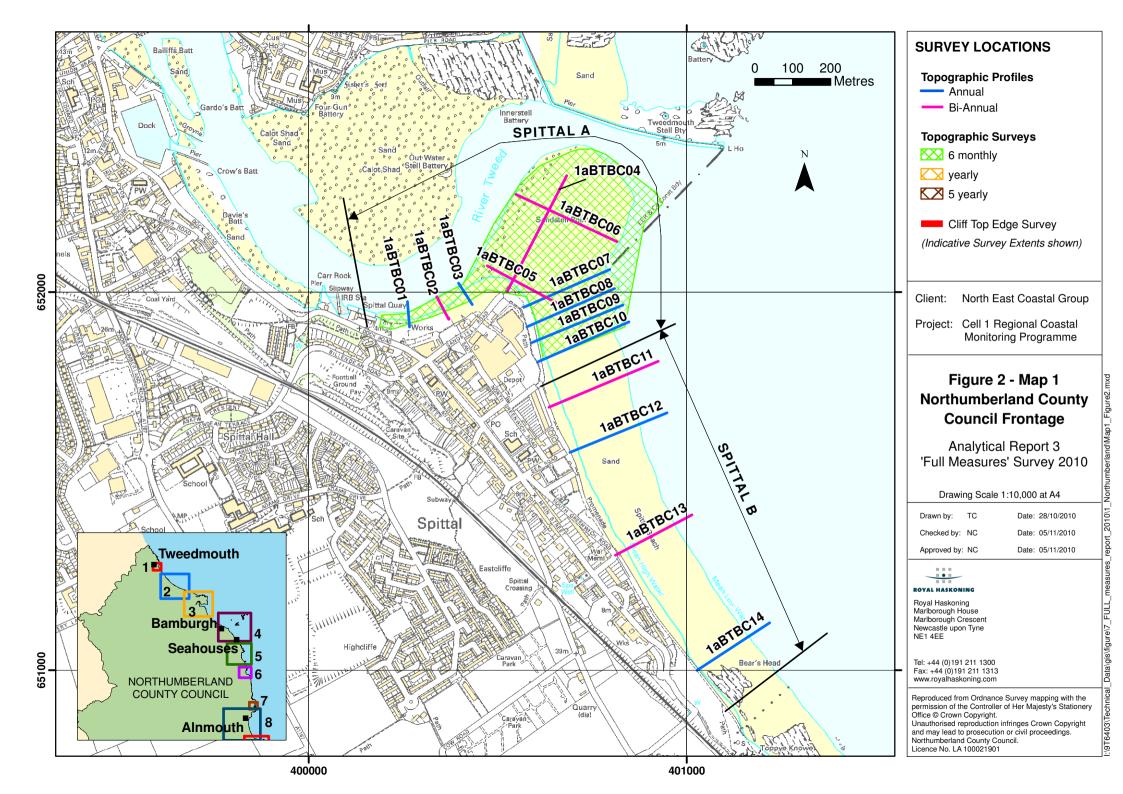
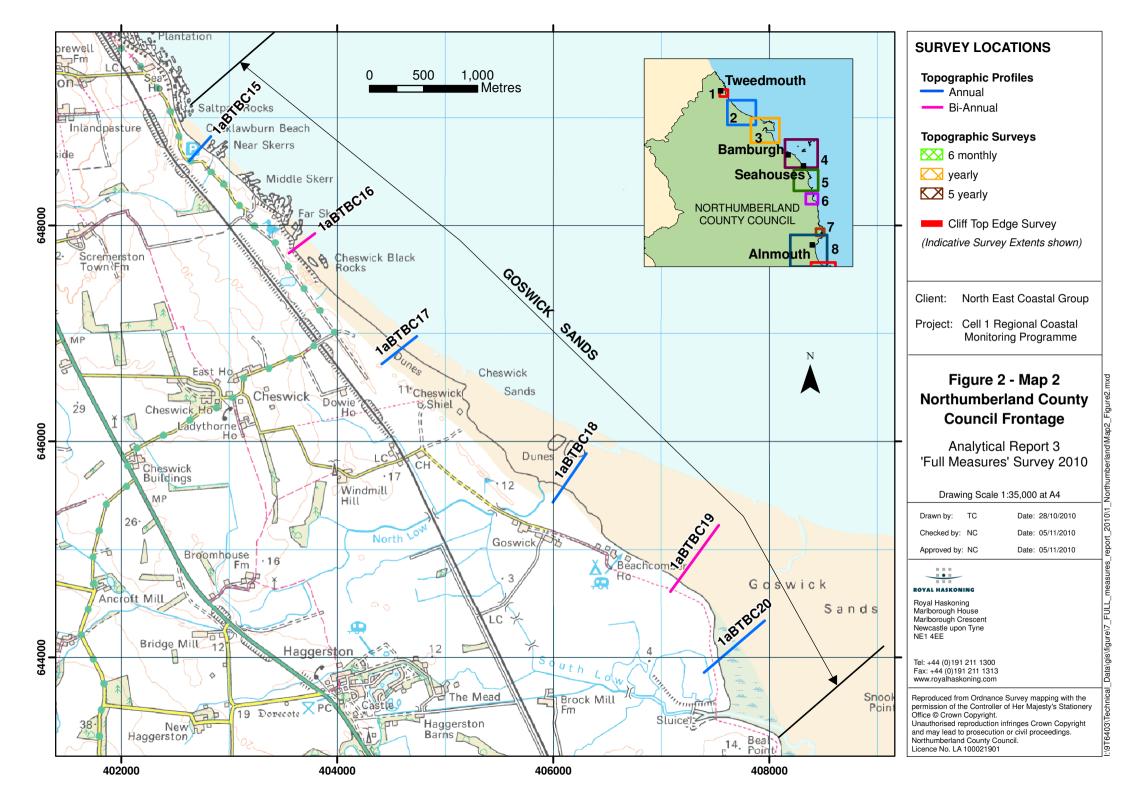
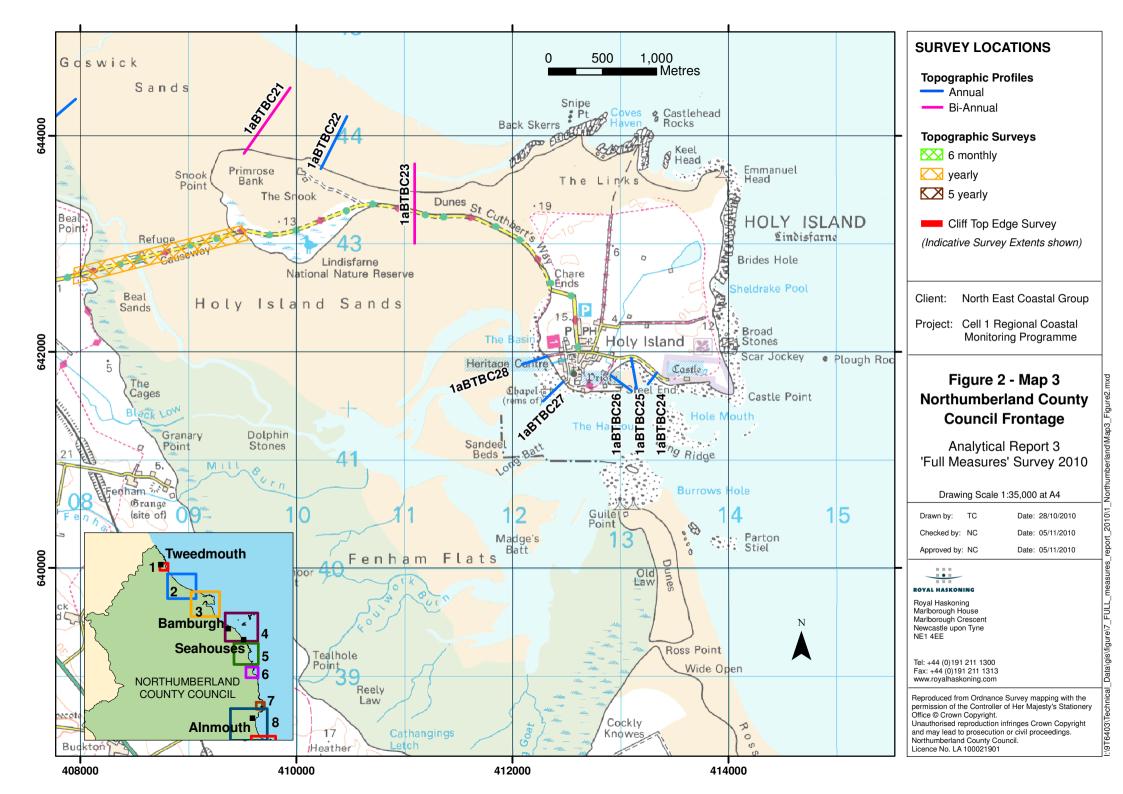
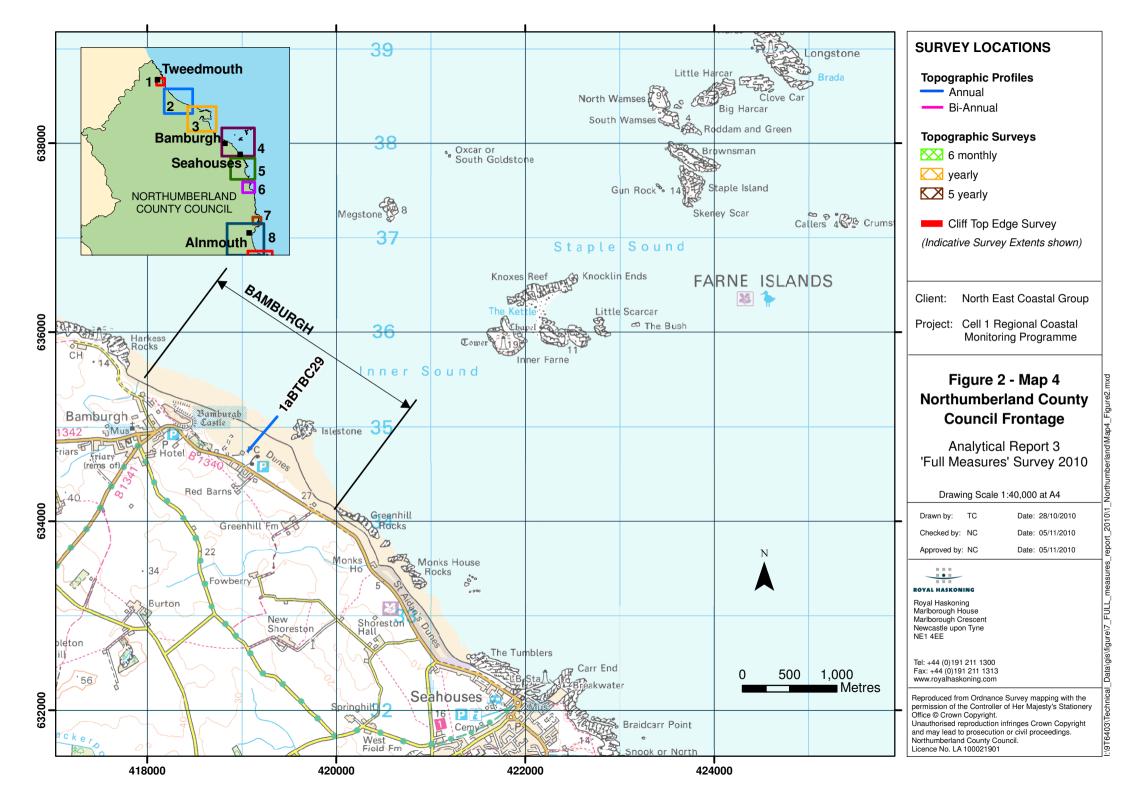
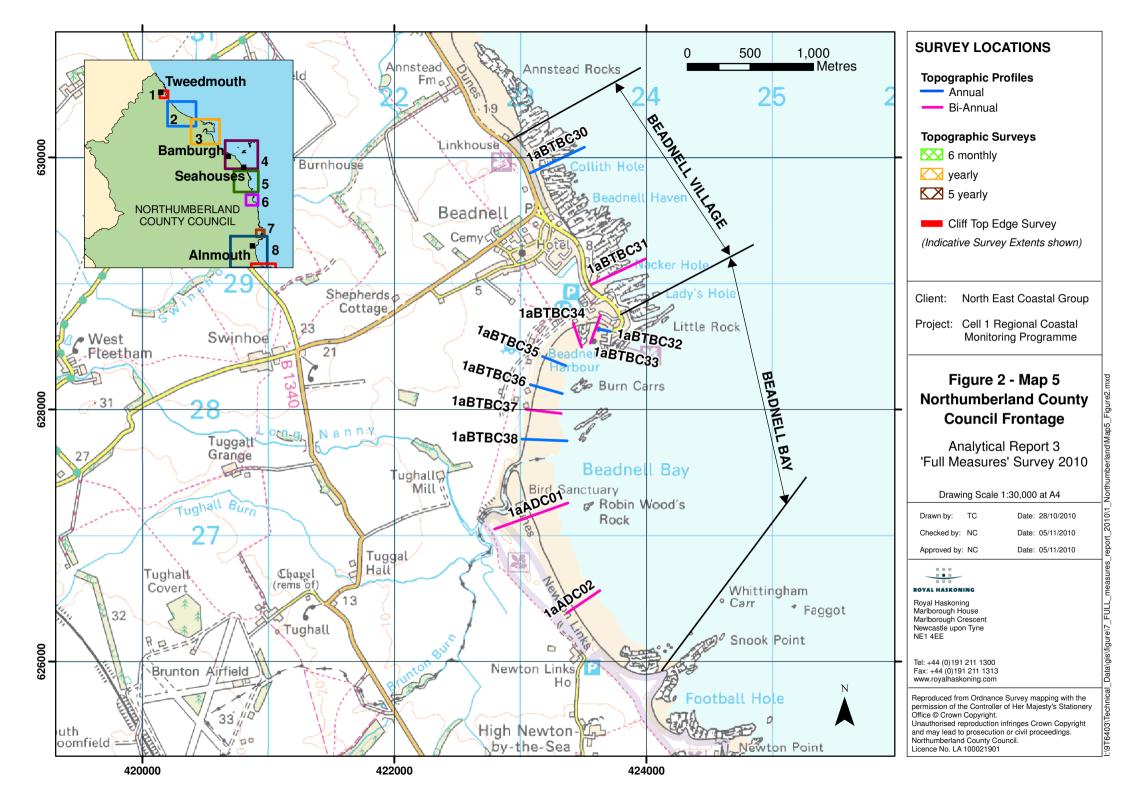
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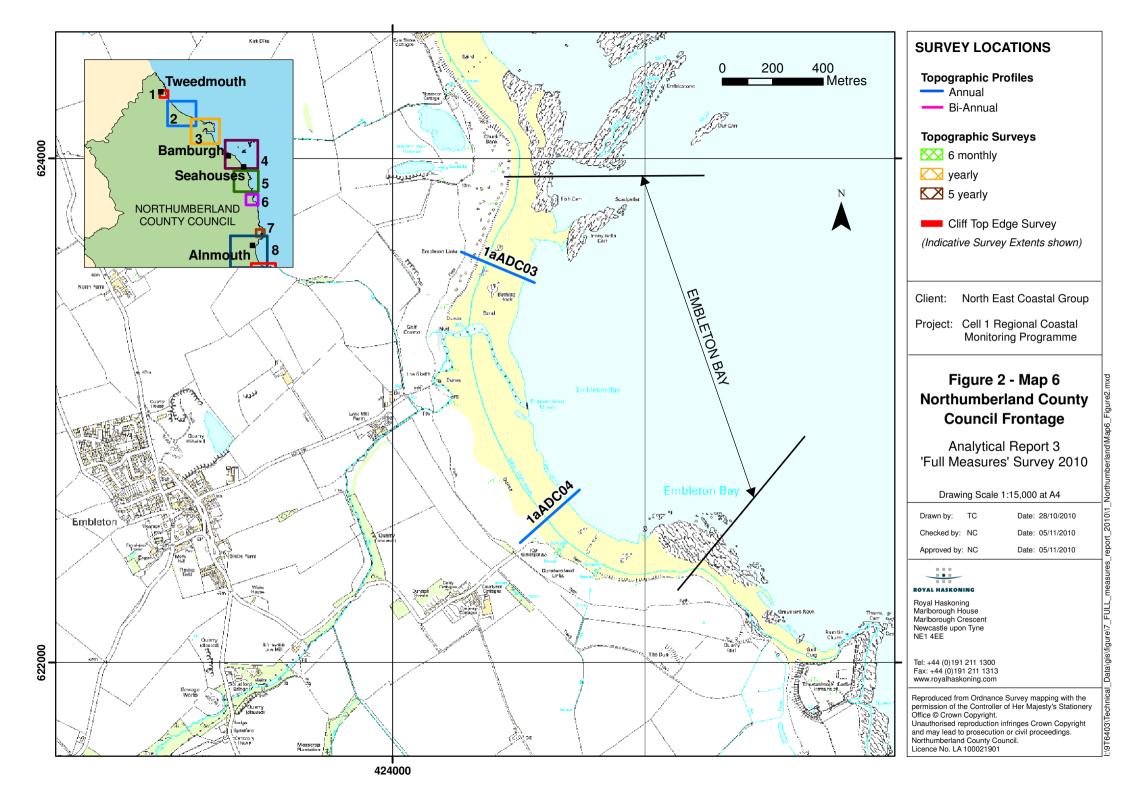


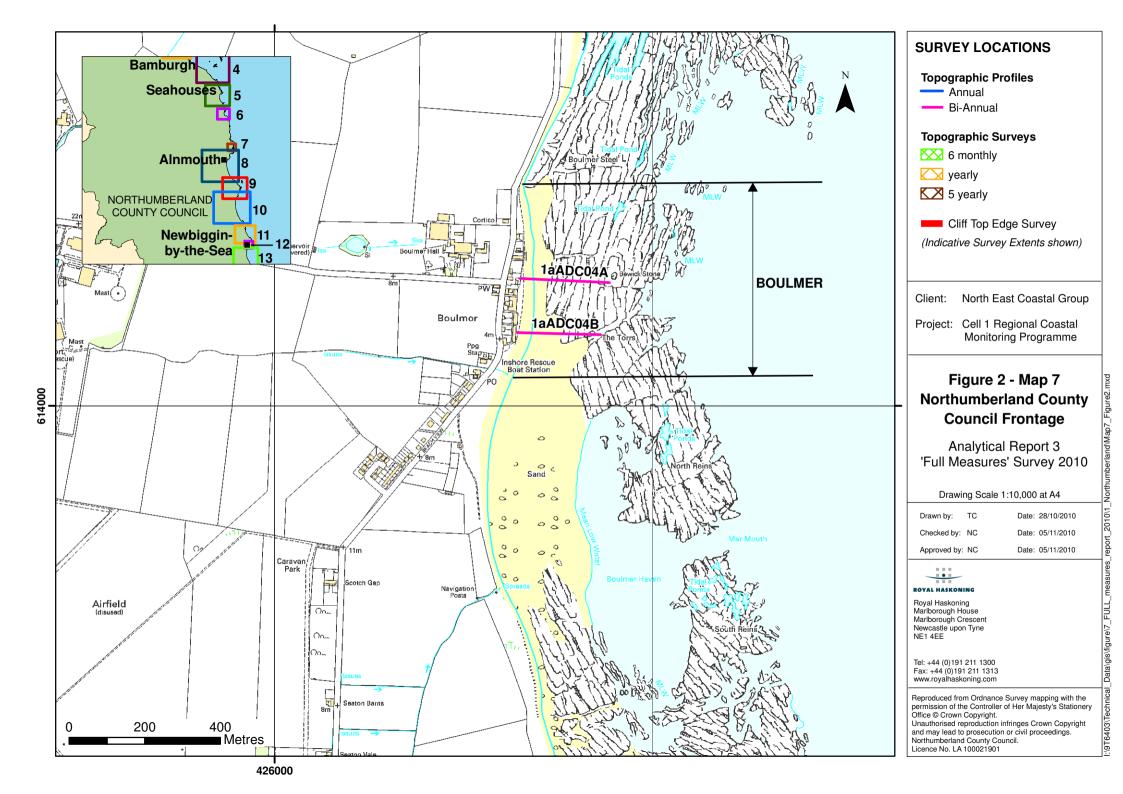


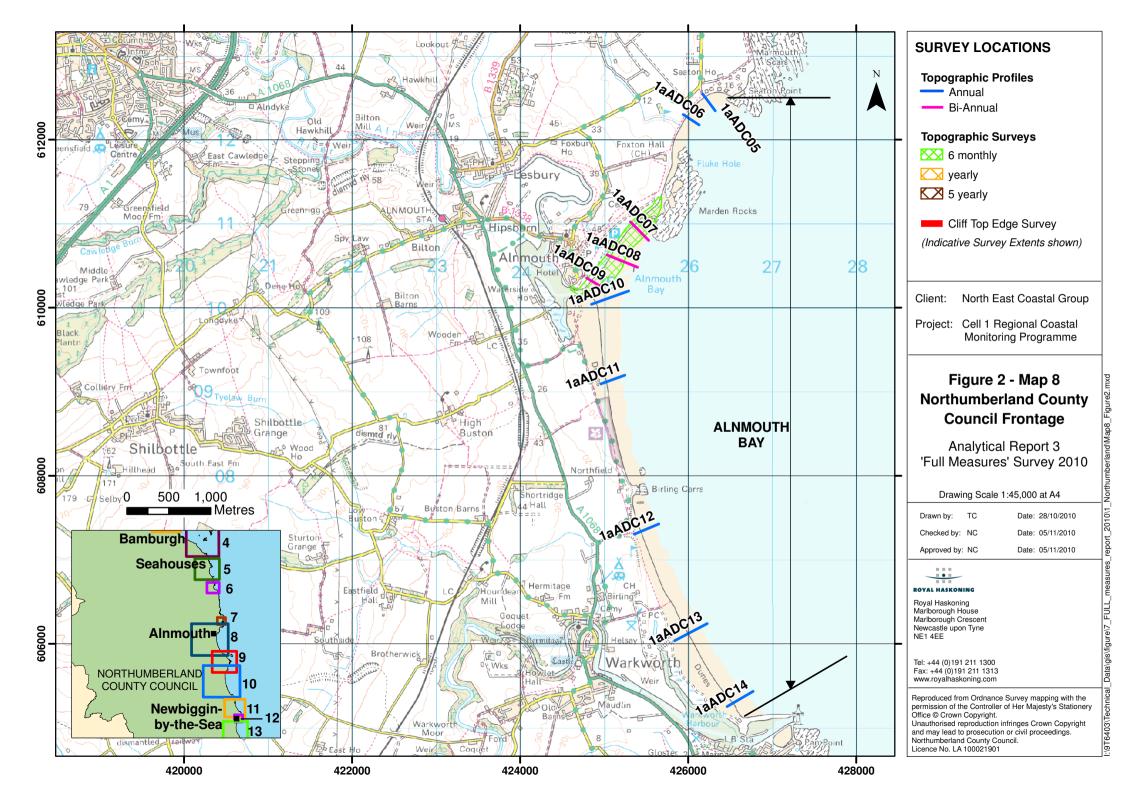


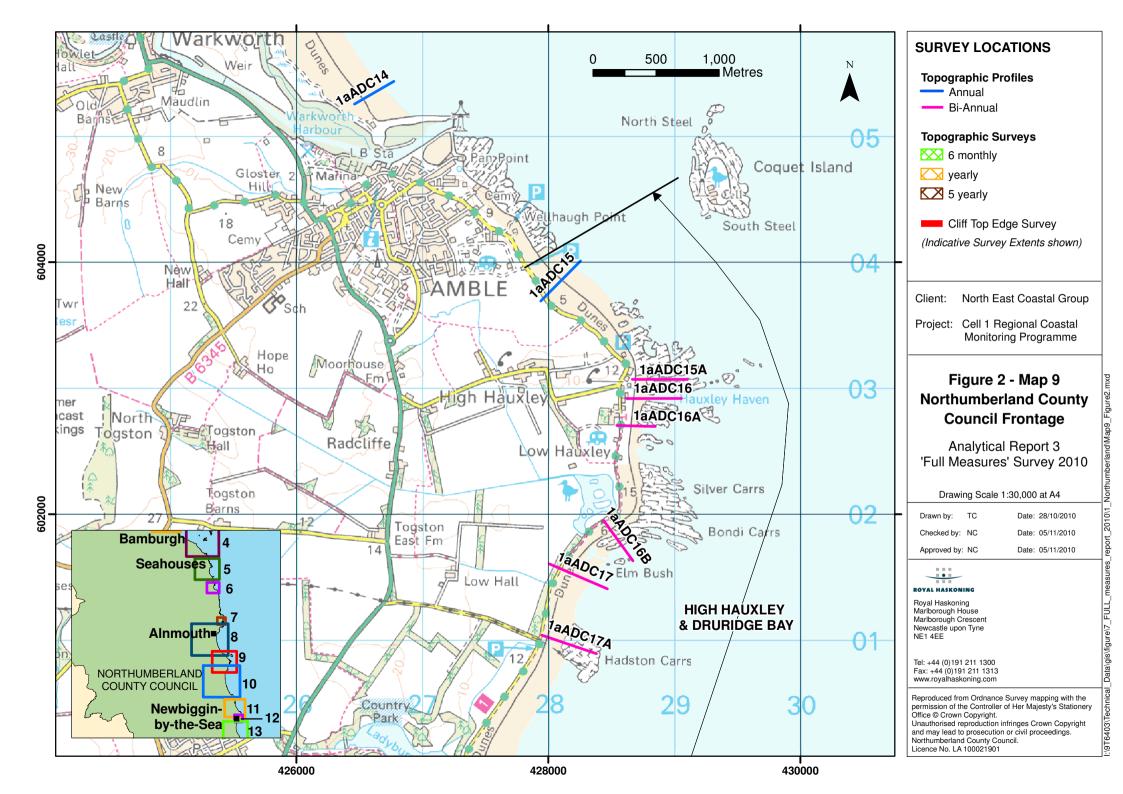


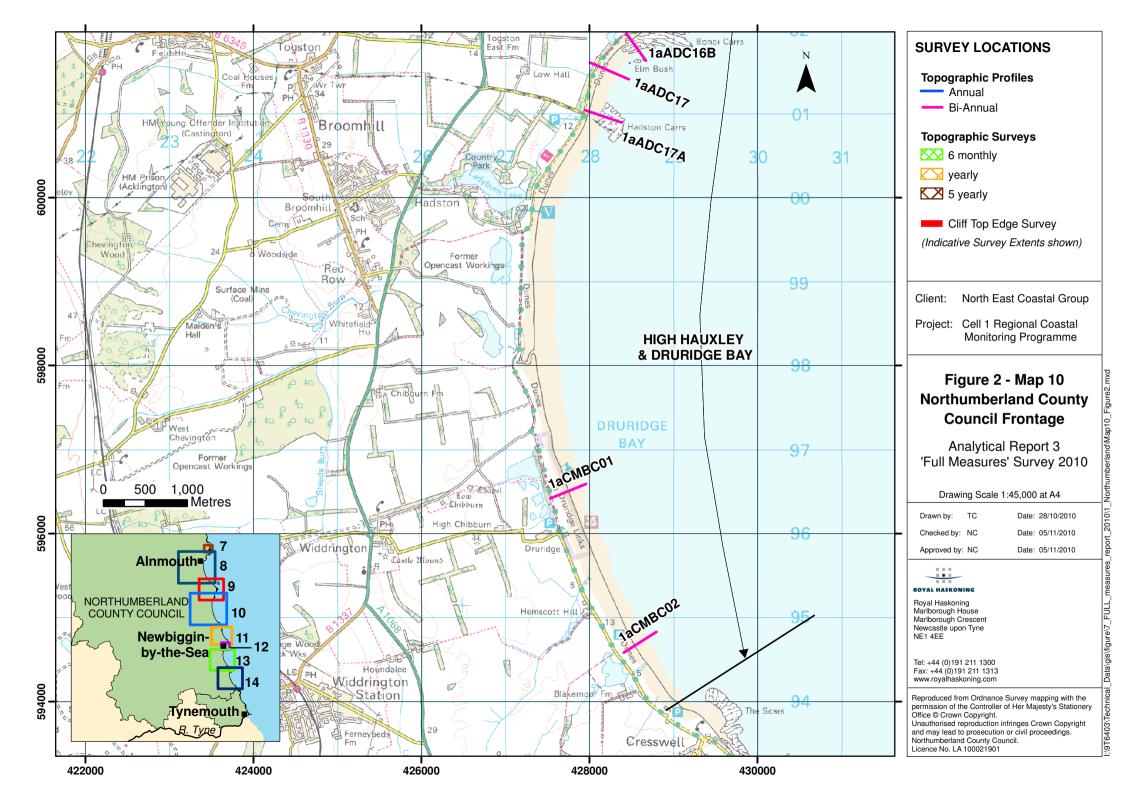


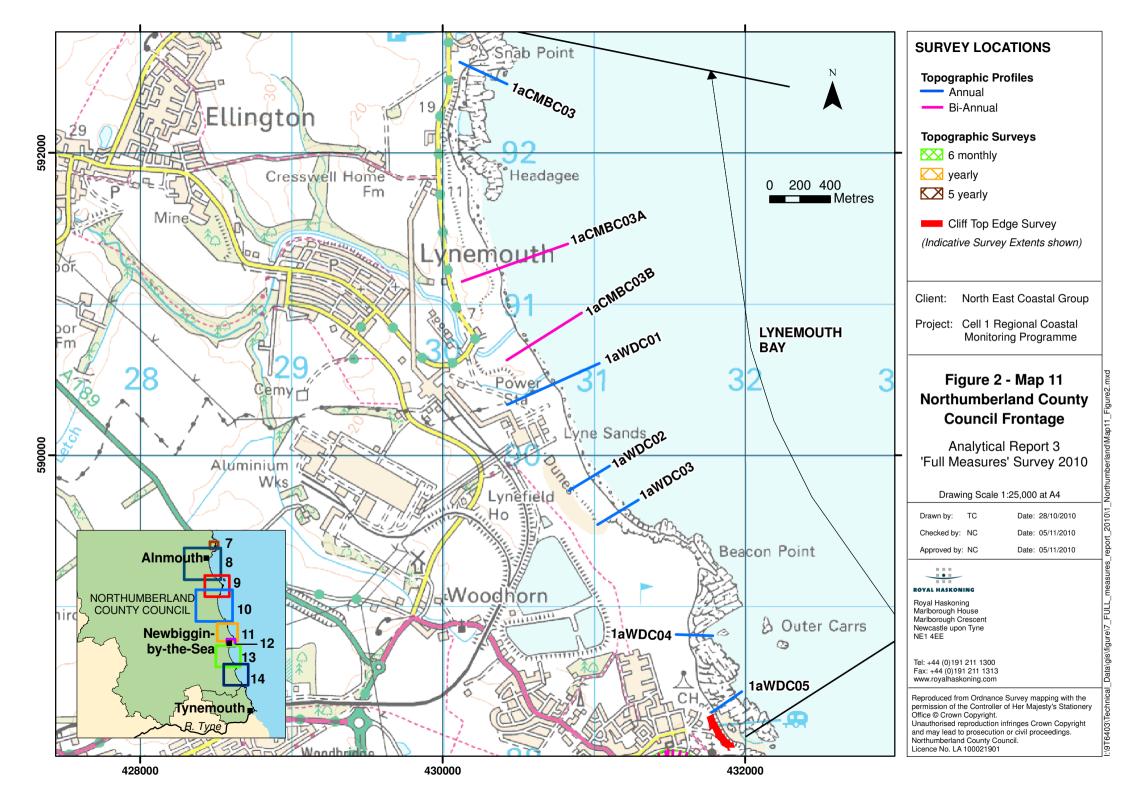


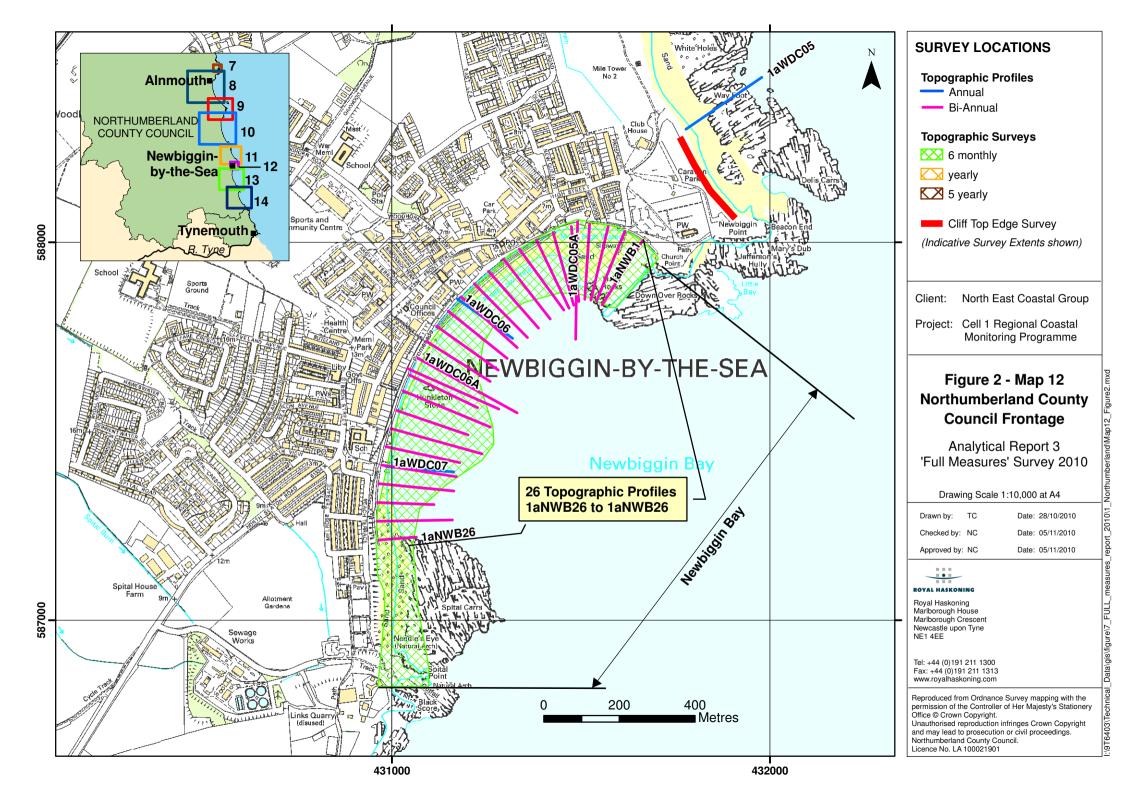


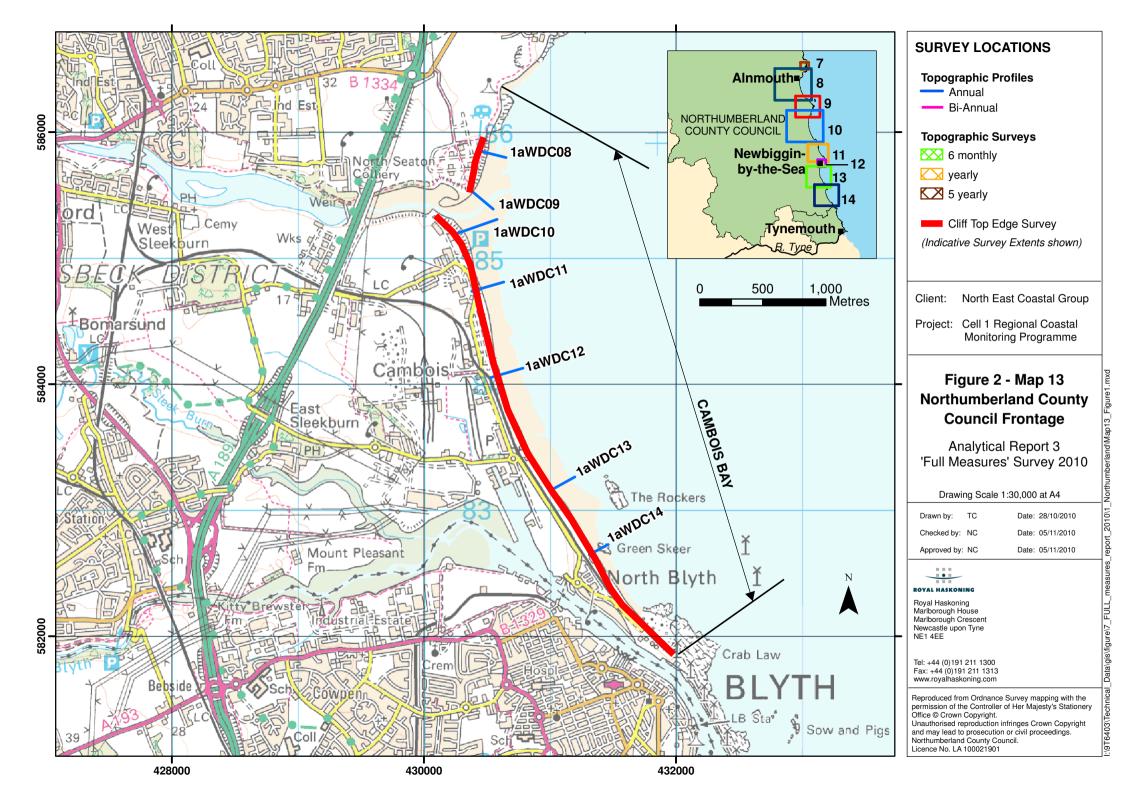


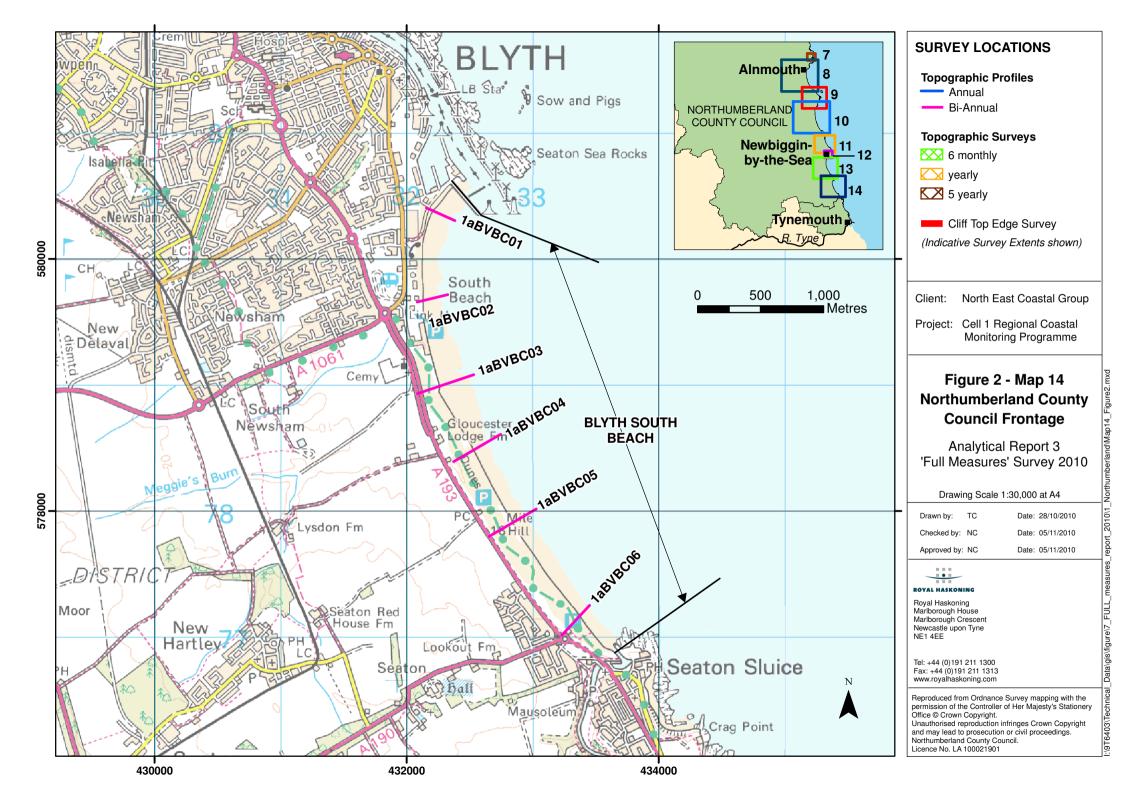




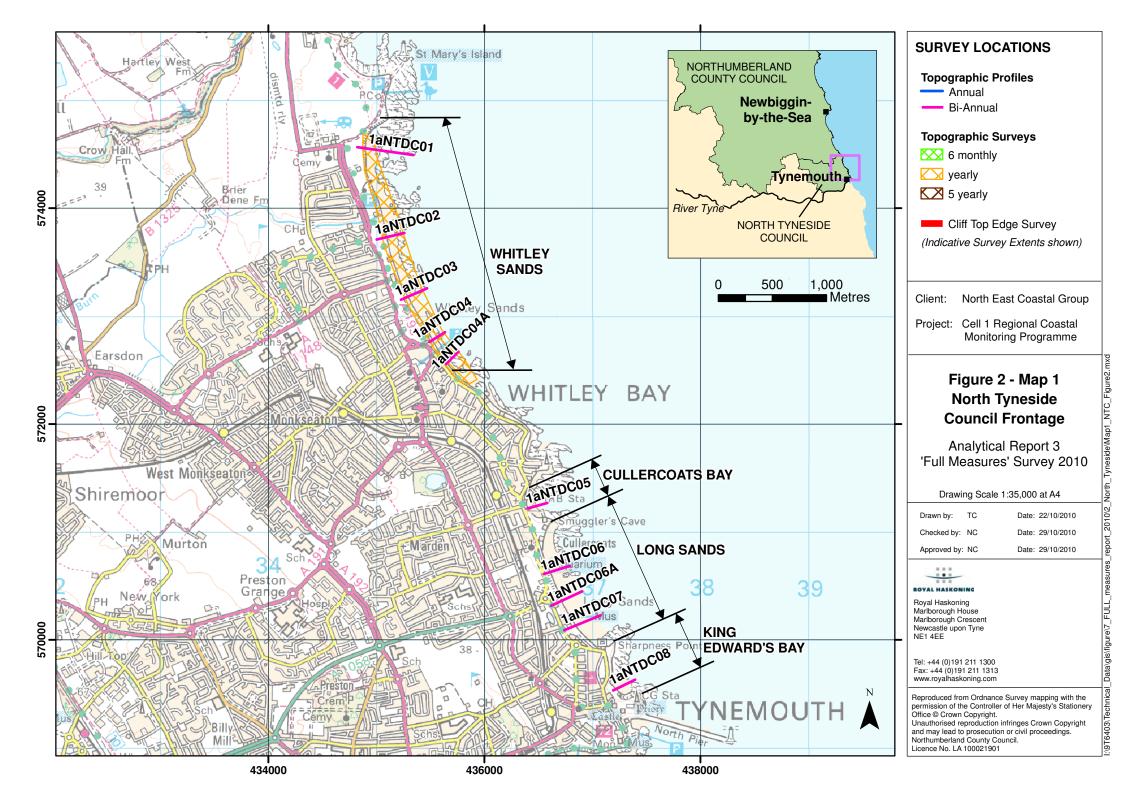




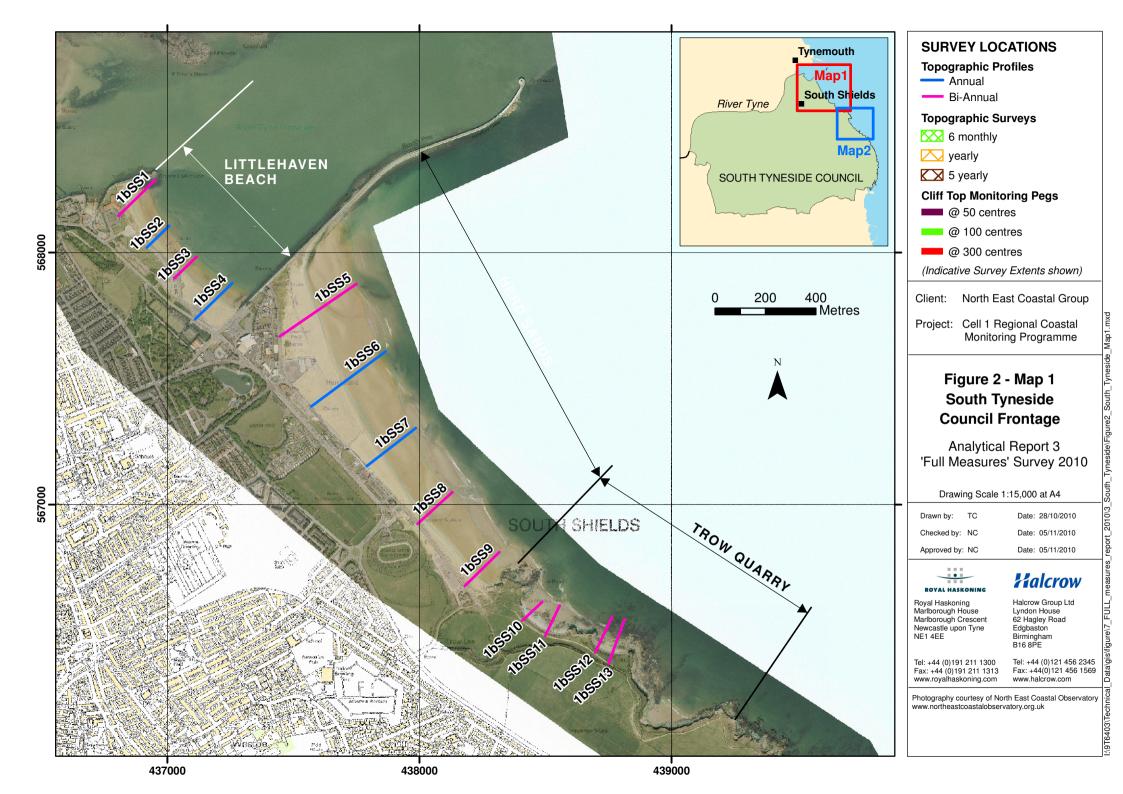


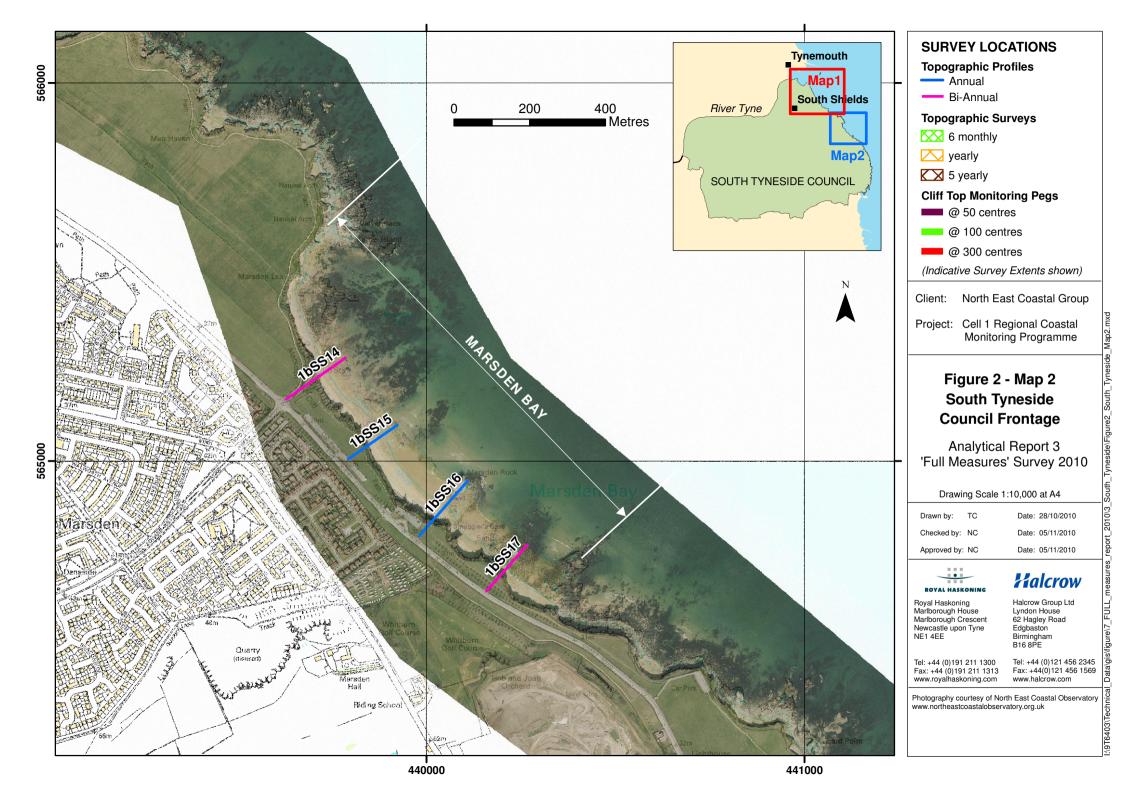


North Tyneside

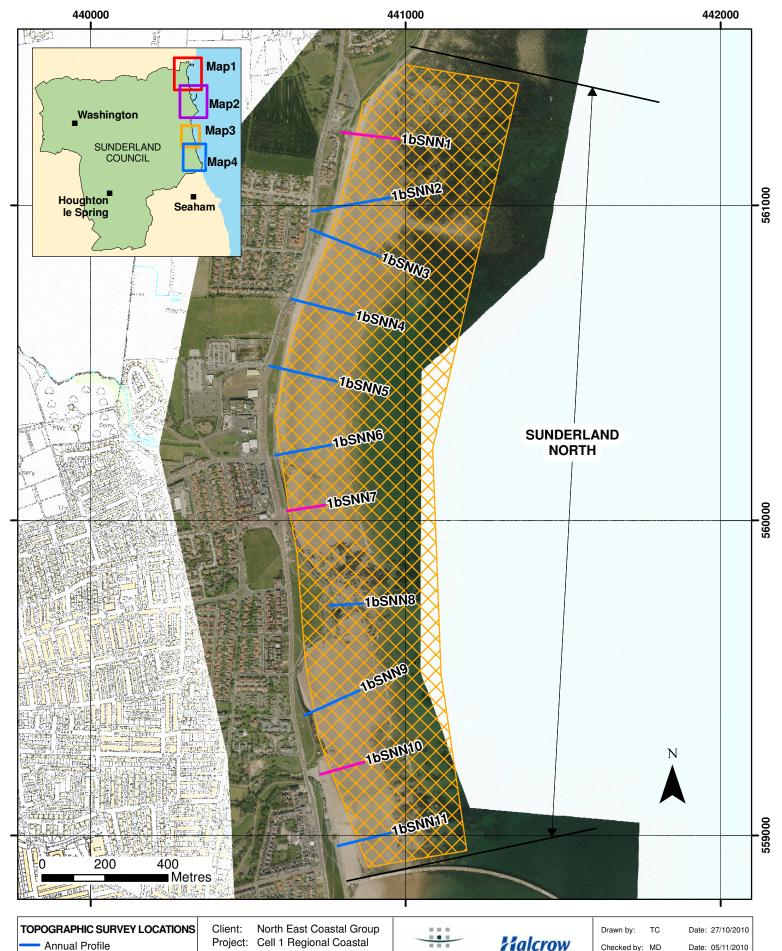


South Tyneside





Sunderland





(Indicative Survey Extents shown)

Project: Cell 1 Regional Coastal Monitoring Programme

Figure 2 - Map 1 Sunderland **Council Frontage**

Analytical Report 3 'Full Measures' Survey 2010

ROYAL HASKONING

Royal Haskoning Marlborough House Marlborough Crescent Newcastle upon Tyne NE1 4EE

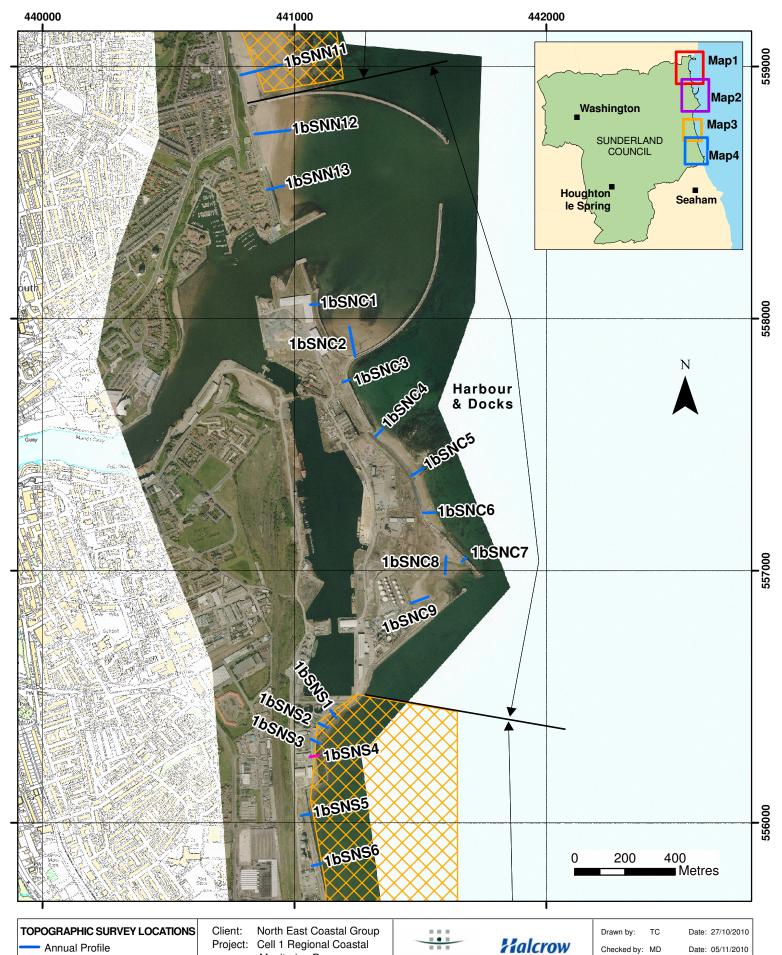
Tel: +44 (0)191 211 1300 Fax: +44 (0)191 211 1313 www.royalhaskoning.com

Halcrow

Halcrow Group Ltd Lyndon House 62 Hagley Road Edgbaston Birmingham B16 8PE

Checked by: MD Date: 05/11/2010 Date: 05/11/2010 Approved by: NC

Photography courtesy of North East Coastal Observatory www.northeastcoastalobservatory.org.uk





Bi-Annual Profile XX 6 monthly Survey

Yearly Survey

🔼 5 yearly Survey

Cliff Top Survey @ 50 centres Cliff Top Survey @ 100 centres

Cliff Top Survey @ 300 centres (Indicative Survey Extents shown)

Monitoring Programme

Figure 2 - Map 2 Sunderland **Council Frontage**

Analytical Report 3 'Full Measures' Survey 2010

Drawing Scale 1:15,000 at A4



ROYAL HASKONING Royal Haskoning

Marlborough House Marlborough Crescent Newcastle upon Tyne NE1 4EE

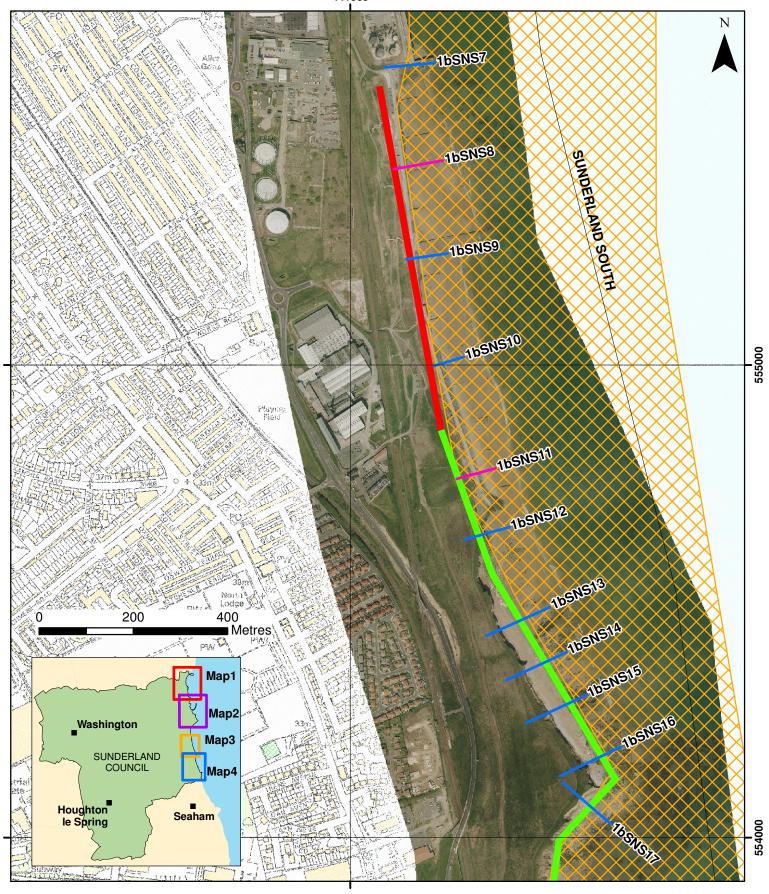
Tel: +44 (0)191 211 1300 Fax: +44 (0)191 211 1313 www.royalhaskoning.com

Halcrow Group Ltd Lyndon House 62 Hagley Road Edgbaston Birmingham B16 8PE

Approved by: NC Date: 05/11/2010

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Yearly Survey

5 yearly Survey

Cliff Top Survey @ 50 centres

Cliff Top Survey @ 100 centres

Cliff Top Survey @ 300 centres (Indicative Survey Extents shown)

Client: North East Coastal Group Project: Cell 1 Regional Coastal Monitoring Programme

Figure 2 - Map 3 Sunderland Council Frontage

Analytical Report 3 'Full Measures' Survey 2010 ROYAL HASKONING

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Halcrow Group Ltd Lyndon House 62 Hagley Road Edgbaston Birmingham B16 8PE
 Drawn by:
 TC
 Date: 27/10/2010

 Checked by:
 MD
 Date: 05/11/2010

 Approved by:
 NC
 Date: 05/11/2010

Photography courtesy of North East Coastal Observatory www.northeastcoastalobservatory.org.uk





Monitoring Programme

Figure 2 - Map 4 Sunderland **Council Frontage**

Analytical Report 3 'Full Measures' Survey 2010



Royal Haskoning Marlborough House Marlborough Crescent Newcastle upon Tyne NE1 4EE

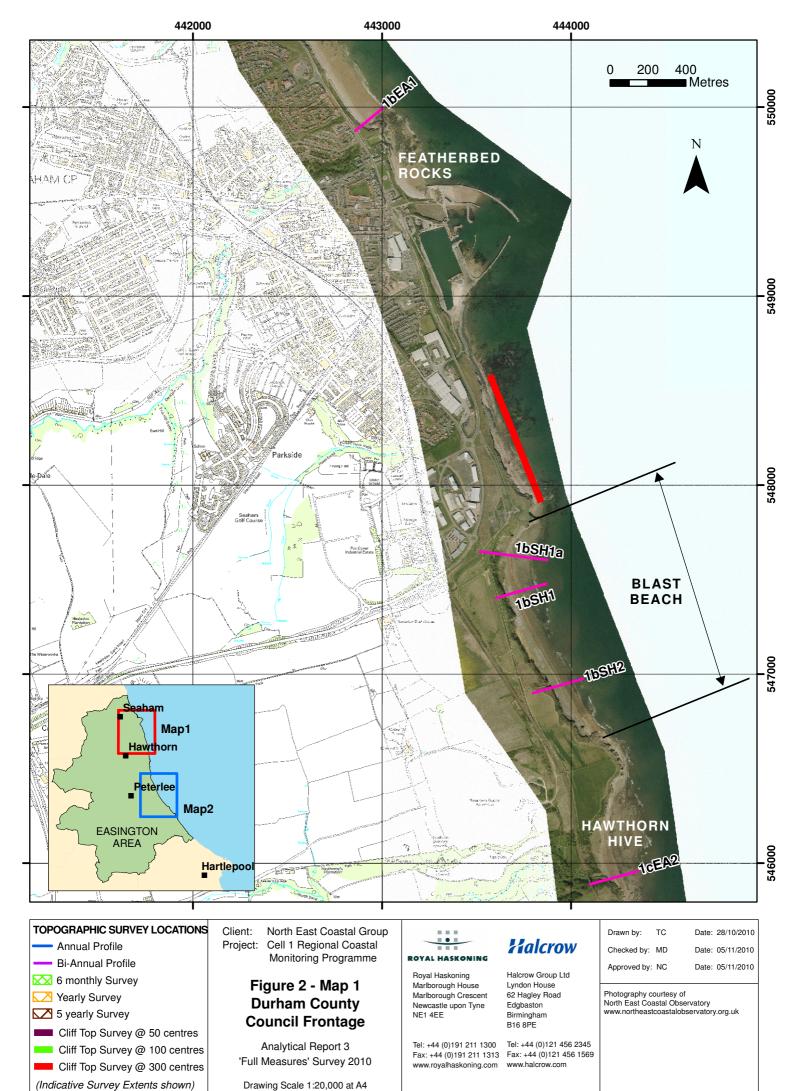
Tel: +44 (0)191 211 1300 Fax: +44 (0)191 211 1313 www.royalhaskoning.com

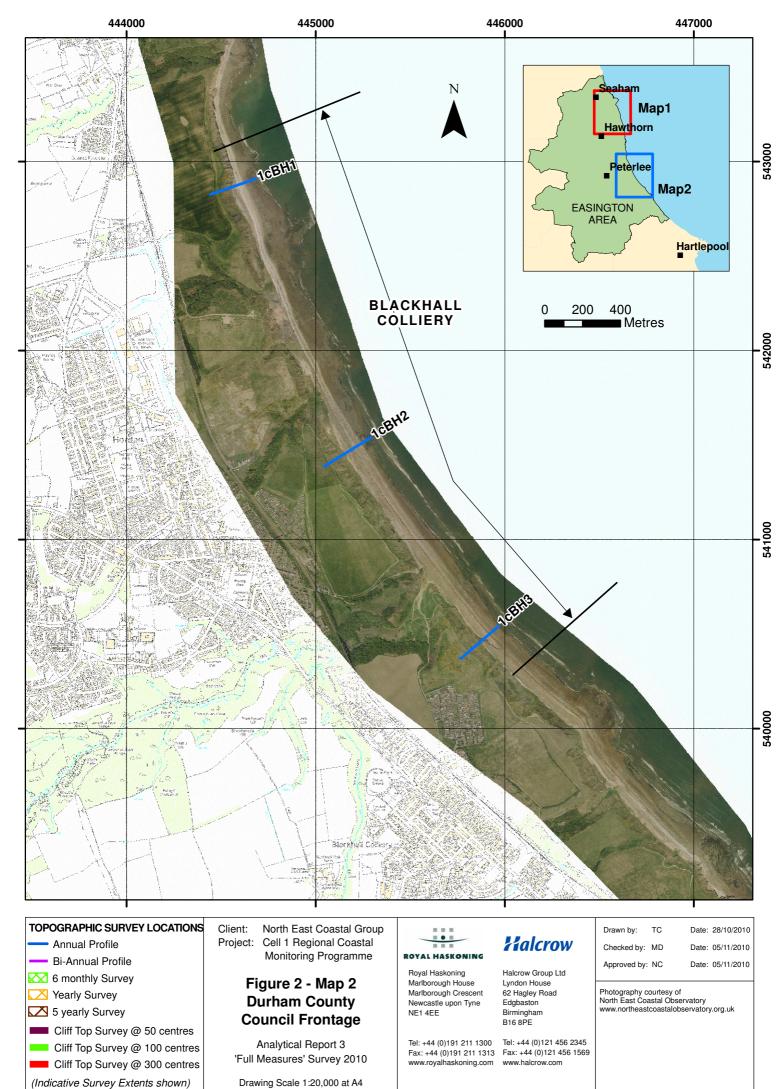
Halcrow Group Ltd Lyndon House 62 Hagley Road Edgbaston Birmingham B16 8PE

Date: 05/11/2010 Approved by: NC

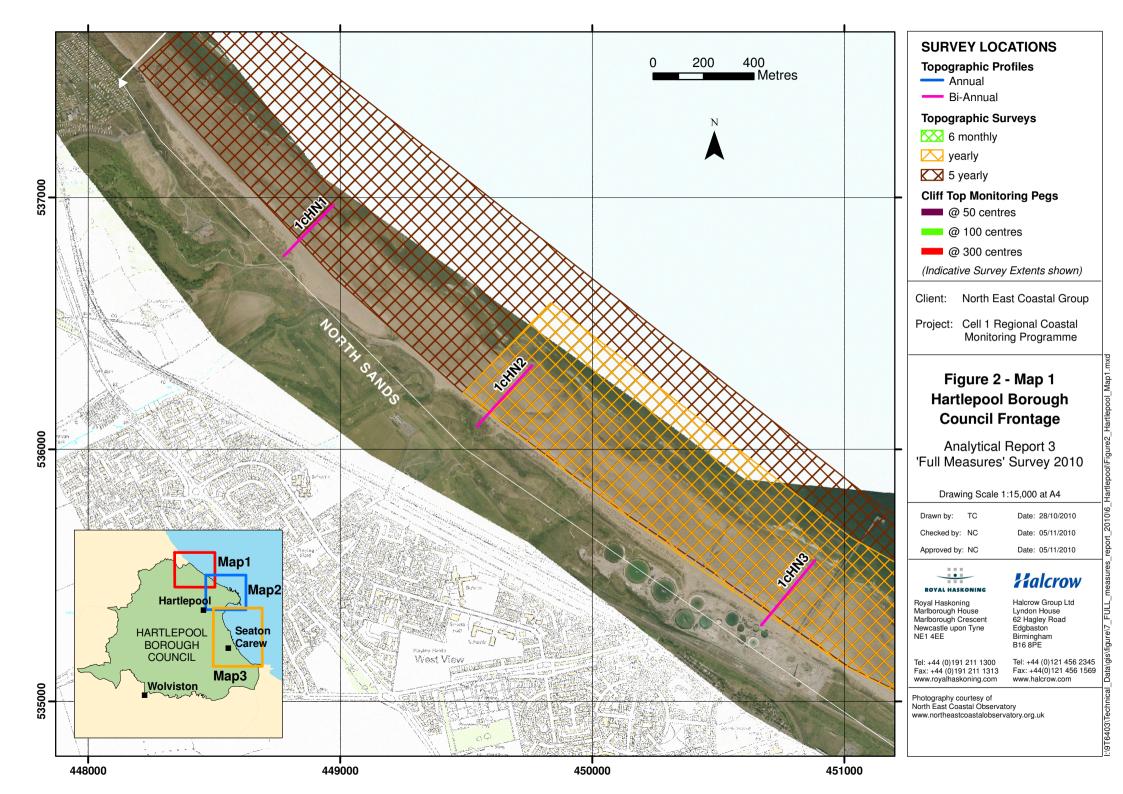
Photography courtesy of North East Coastal Observatory

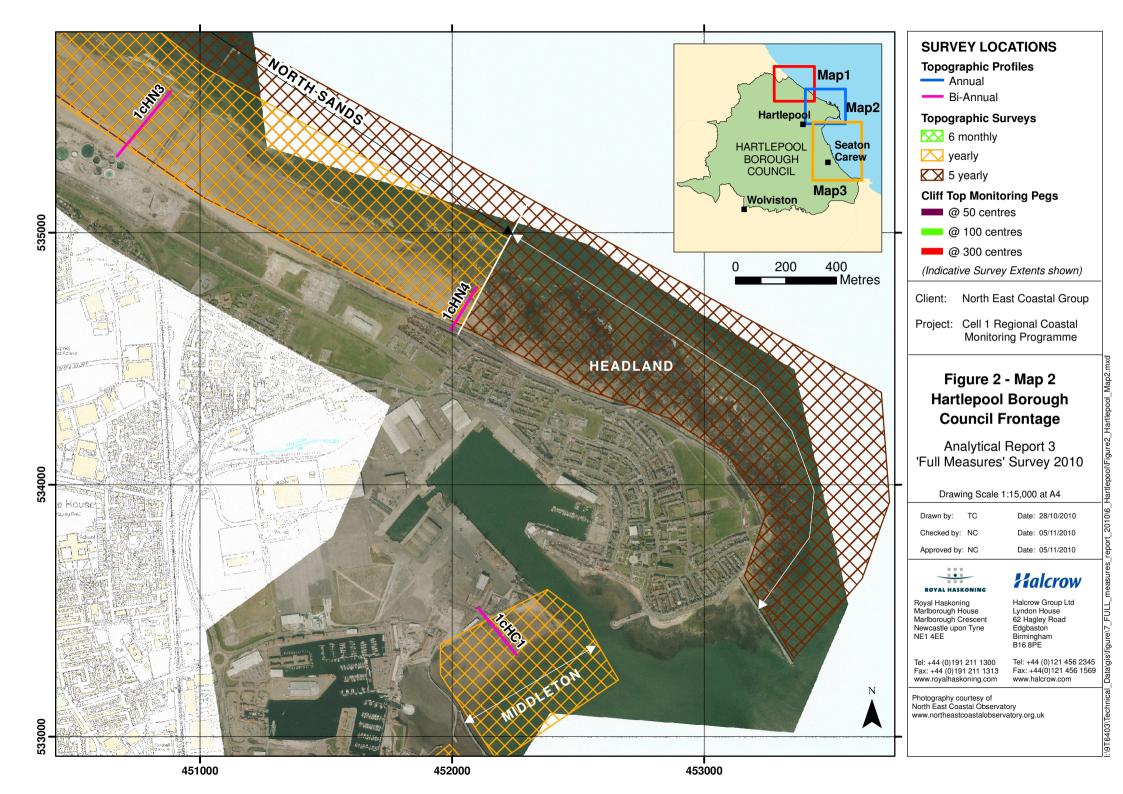
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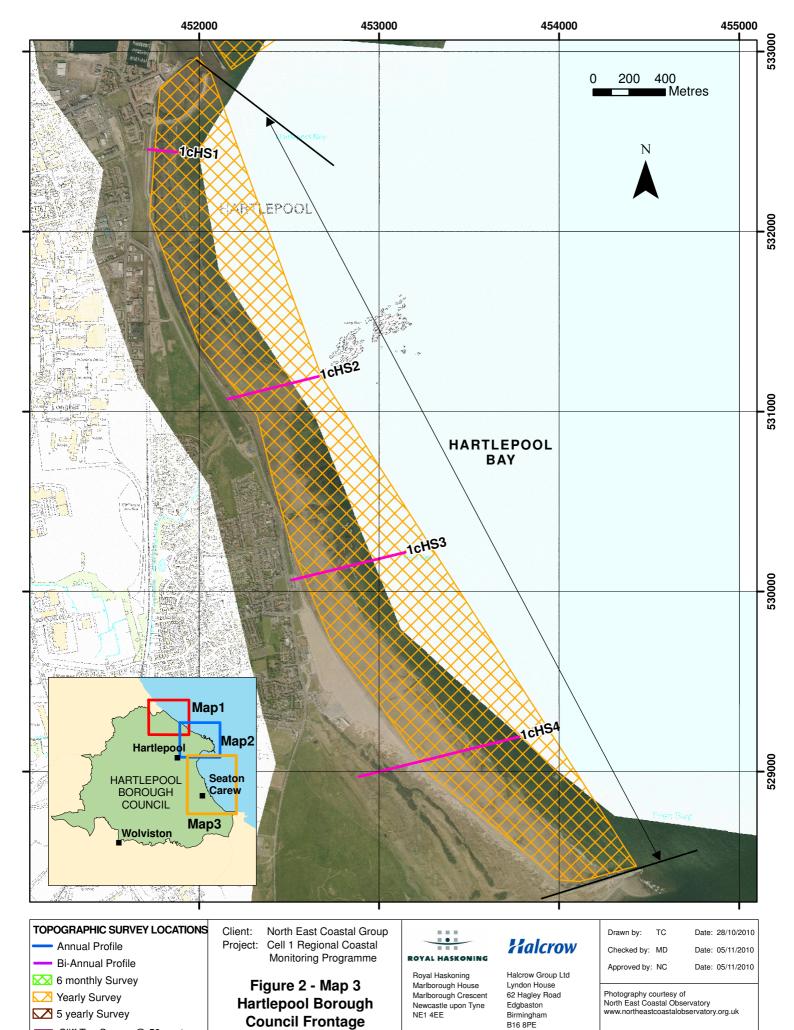




Hartlepool







Cliff Top Survey @ 50 centres

Cliff Top Survey @ 100 centres

Cliff Top Survey @ 300 centres

(Indicative Survey Extents shown)

Tel: +44 (0)121 456 2345

Fax: +44 (0)191 211 1313 Fax: +44 (0)121 456 1569 www.royalhaskoning.com www.halcrow.com

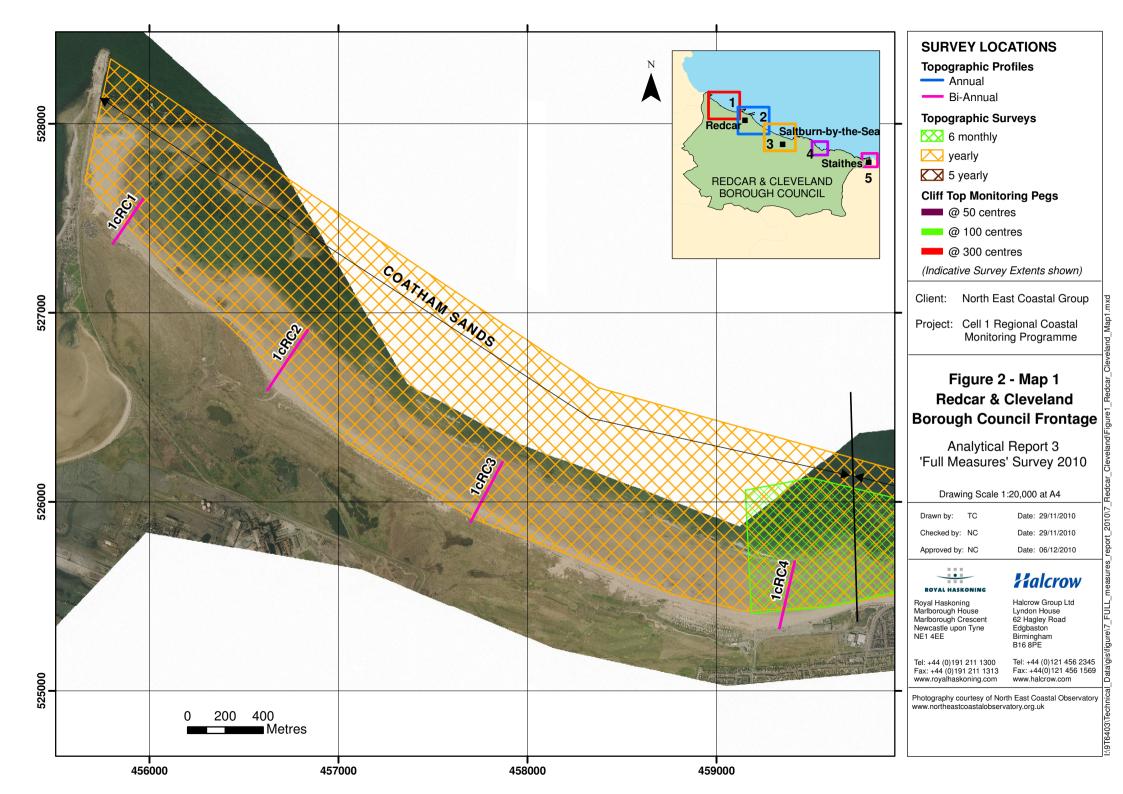
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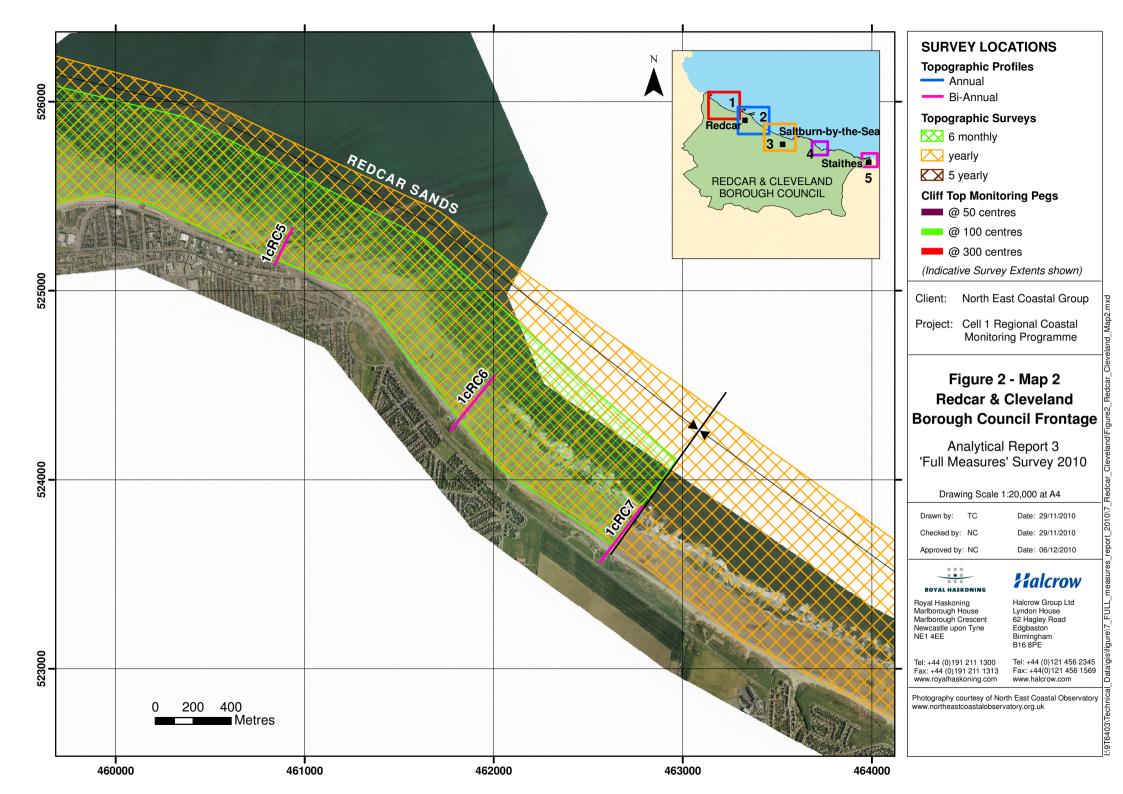
www.royalhaskoning.com

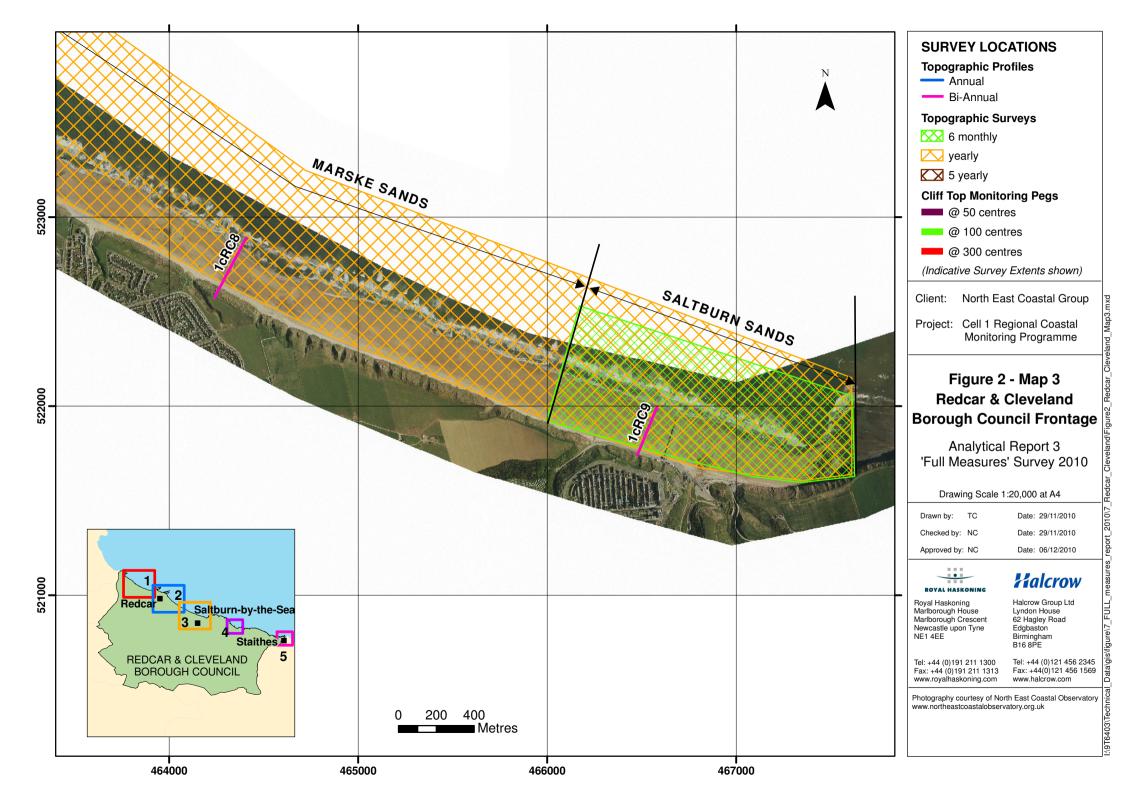
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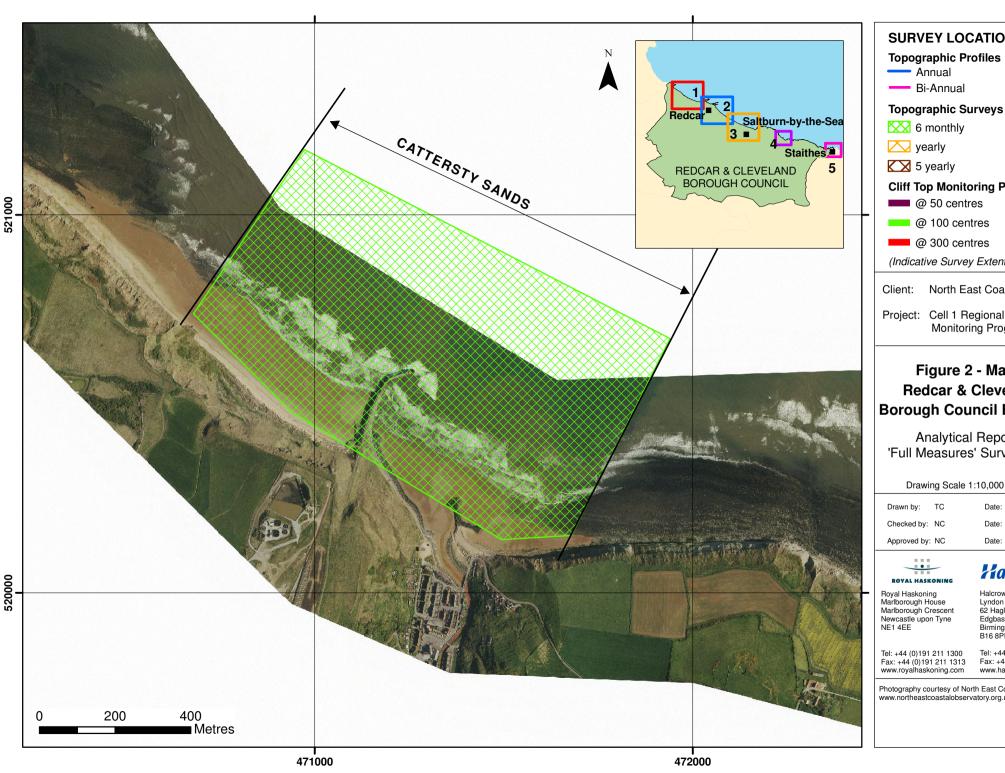
'Full Measures' Survey 2010

Redcar and Cleveland









SURVEY LOCATIONS

Topographic Profiles

Cliff Top Monitoring Pegs

(Indicative Survey Extents shown)

North East Coastal Group

Project: Cell 1 Regional Coastal Monitoring Programme

Figure 2 - Map 4 **Redcar & Cleveland Borough Council Frontage**

Analytical Report 3 'Full Measures' Survey 2010

Drawing Scale 1:10,000 at A4

Date: 29/11/2010

Date: 29/11/2010

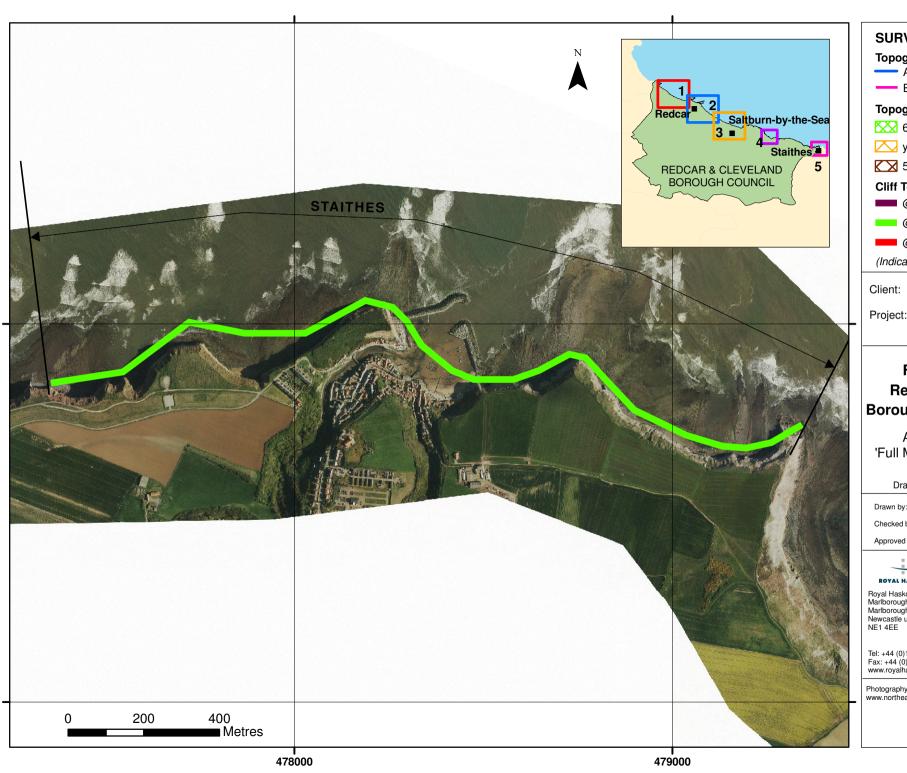
Date: 06/12/2010

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Halcrow

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Photography courtesy of North East Coastal Observatory



SURVEY LOCATIONS

Topographic Profiles

— Annual

Bi-Annual

Topographic Surveys

6 monthly

yearly

5 yearly

Cliff Top Monitoring Pegs

@ 50 centres

@ 100 centres

@ 300 centres

(Indicative Survey Extents shown)

North East Coastal Group

Project: Cell 1 Regional Coastal Monitoring Programme

Figure 2 - Map 5 **Redcar & Cleveland Borough Council Frontage**

Analytical Report 3 'Full Measures' Survey 2010

Drawing Scale 1:10,000 at A4

Drawn by: TC

Date: 29/11/2010

Checked by: NC

Date: 29/11/2010

Approved by: NC

Date: 06/12/2010

Halcrow



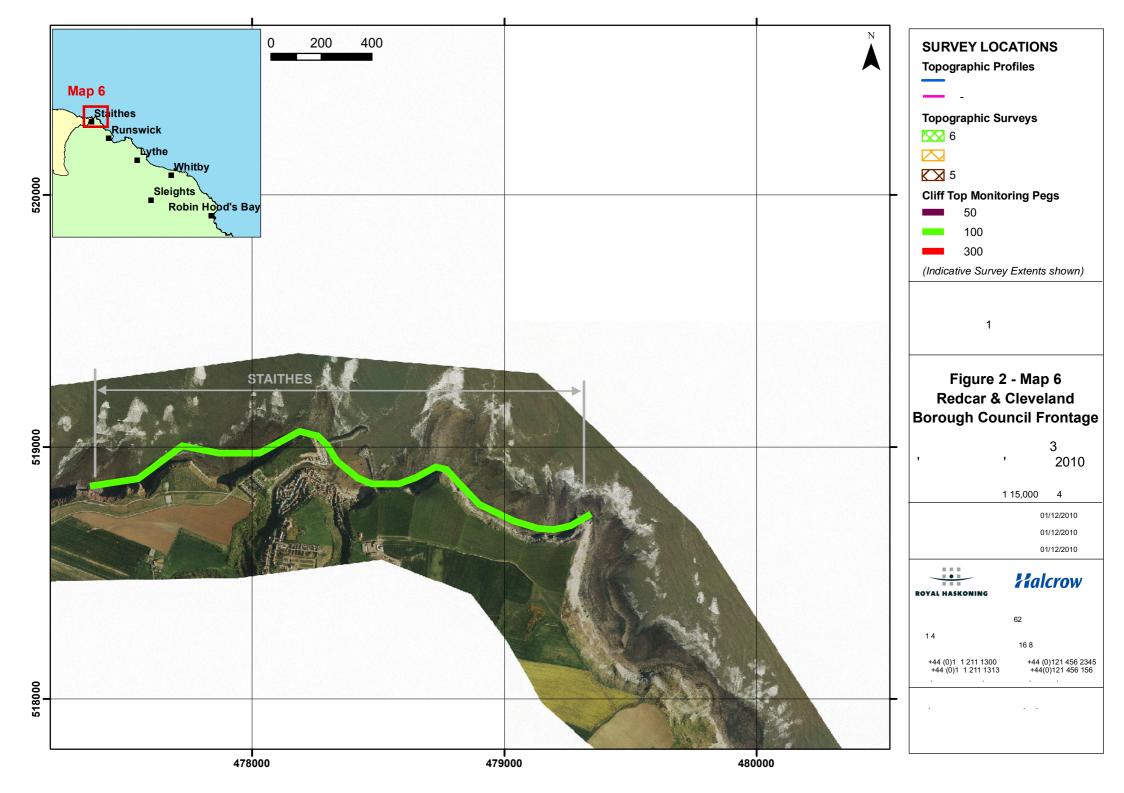
ROYAL HASKONING

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Scarborough

