



Supplementary Environmental Information

*Compensation Agreement for Immingham Outer Harbour and Hull
Quay 2005*


Supplementary Report

June 2003
Revision: 0

Dated 30 June 2003

- Associated British Ports (1)
- English Nature (2)
- The Environment Agency (3)
- Royal Society for the Protection of Birds (4)
- Lincolnshire Wildlife Trust (5)
- and
- Yorkshire Wildlife Trust Limited (6)

Compensation Agreement for
Immingham Outer Harbour and Hull Quay
2005

 NORTON ROSE

1 THIS AGREEMENT is made the 30th day of June 2003 between:

- (1) ASSOCIATED BRITISH PORTS of 150 Holborn London EC1N 2LR ("ABP")
- (2) ENGLISH NATURE of Northminster House, Peterborough, Cambs, PE1 1UA ("English Nature")
- (3) ENVIRONMENT AGENCY of Kingfisher House, Goldhay Way, Orton Goldhay, Cambs, PE2 5ZR (the "Agency")
- (4) ROYAL SOCIETY FOR THE PROTECTION OF BIRDS of The Lodge, Sandy, Bedfordshire, SG19 2DL ("RSPB")
- (5) LINCOLNSHIRE WILDLIFE TRUST of Banovallum House, Manor House Street, Horncastle, Lincolnshire, LN9 5HF ("LWT")
- (6) YORKSHIRE WILDLIFE TRUST LIMITED of No. 10 Toft Green, York, YO1 6JT ("YWT")

2 Recitals

- 2.1 This Agreement underlines ABP's wish as port operator to play a full part in the long term sustainable management of the Humber Estuary and in particular the Humber Estuary European Sites.
- 2.2 ABP are seeking consent and authorisations under two Harbour Revision Orders ("HRO") made pursuant to Section 14 of the Harbours Act 1964 for
 - (a) the Outer Harbour; and
 - (b) Quay 2005
- 2.3 In considering the impact of the proposed construction of the Outer Harbour and Quay 2005 respectively ABP have carried out Appropriate Assessments in accordance with Regulation 48 of the Habitats Regulations and have concluded that:
 - (a) the effects of the Harbour Development Works are as identified in ABP's Appropriate Assessments as summarised in Schedule 1 of the Agreement and in particular will lead to an overall loss of 31ha of mudflat used by some 800 feeding and 300 roosting water birds.
 - (b) the Outer Harbour is likely to have an Adverse Effect on the integrity of the combined Phase 1 and Phase 2 Humber Estuary SPA and Ramsar Sites and on the Possible Special Area of Conservation; and
 - (c) taking into account the mitigation proposed by ABP Quay 2005 will not have an Adverse Effect;
- 2.4 In compliance with the Habitats Regulations ABP have identified the following Habitats Schemes as appropriate compensation and/or mitigation for the Harbour Development Works, namely:
 - (a) In respect of the Outer Harbour:
 - (i) a managed realignment scheme at Welwick Sunk Island in the outer Humber Estuary designed to create around 45 hectares of intertidal habitat as described in Schedule 2;

- (ii) a managed realignment scheme at Chowder Ness in the inner Humber Estuary designed to create around 11 hectares of new intertidal habitat - 6 hectares of which shall be deemed to constitute mitigation for Quay 2005 as described in Schedule 3; and
- (iii) a habitat enhancement scheme of around 3 ha of inter-tidal mudflat at Doig's Creek, Pyewipe as described in Schedule 4;

all of which is designed to include in aggregate not less than 31 hectares of intertidal mudflat.

(b) In respect of Quay 2005:

- (iv) the creation of replacement roosting areas at Quay 2005 and Queen Elizabeth Dock Extension as described in Schedule 5; together with
- (v) the said 6 hectares at Chowder Ness referred to in clause 2.4(a) (ii) above;

2.5 Subject to clause 6.1 and the terms of this Agreement generally, as at the date of this Agreement, acceptable aggregate objectives to be taken as one of the measures of quality in assessing the effectiveness of the successful implementation and delivery of the Habitats Schemes include-

- (a) The creation of intertidal habitats with the ability to provide feeding habitat for in excess of 800 (peak mean over five years) feeding water birds with typical species in the following relative proportions: 60% dunlin; 20% black-tailed godwit; 10% redshank and 10% other bird species delivered through the creation of inter-tidal habitats at Welwick and Chowder Ness and enhancement of inter-tidal habitat at Doig's Creek;
- (b) Replacement roosting structures to support in excess of 300 (peak mean over five years) roosting water birds with typical species of dunlin; redshank and ringed plover delivered through artificial roosting structures adjacent to Quay 2005 and Queen Elizabeth Dock

2.6 English Nature, the Agency, RSPB, LWT and YWT are satisfied and hereby acknowledge that the delivery of the Habitats Schemes if successfully implemented in accordance with the environmental objectives set out in clauses 2.4 and 2.5 above will meet their concerns in relation to the requirements of the Habitats Regulations in terms of compensation for the Outer Harbour and mitigation for Quay 2005 as set out in the Appropriate Assessments prepared for the Harbour Development Works.

2.7 To the extent that this agreement is made between ABP and English Nature, it shall be construed as a management agreement pursuant to Regulation 16 of the Habitats Regulations.

3 Definitions

"Adverse Effect" shall mean Adverse Effect within the terms of Regulation 48 of the Habitats Regulations.

"Appropriate Assessment" shall mean an Appropriate Assessment carried out for the purposes of Regulation 48 of the Habitat Regulations.

"Environmental Statements" shall mean as appropriate -

- (a) the Outer Harbour Environmental Statement dated August 2001 and/or
- (b) the Quay 2005 Environmental Statement dated September 2000 and/or
- (c) the Reclamation East of Queen Elizabeth Dock Environmental Statement dated November 1995

"ESC" shall mean the Environmental Steering Committee referred to in clause 5.3 of this Agreement, the membership of which shall comprise ABP's Project Environmental Managers and representatives of the Agency, English Nature, the DfT, CEFAS, the relevant local authorities, RSPB, the YWT and the LWT.

"Habitats Regulations" shall mean the Conservation (Natural Habitats etc) Regulations 1994.

"Habitats Schemes" shall mean all of those schemes separately identified in clause 2.4 of this Agreement.

"Harbour Development Works" shall mean ABP's proposals for the Outer Harbour and Quay 2005.

"Humber Estuary European Sites" shall mean those sites identified in the Immingham Outer Harbour Environmental Statement.

"Implementation Plan" shall mean the Implementation Plan attached in Schedule 6 to this Agreement as may be amended from time to time with the agreement of the ESC, save that no amendment shall be made which will impact upon the Agency's Flood Defence function other than with the Agency's specific agreement.

"Monitoring Plan" shall mean the Monitoring Plan attached as Schedule 7 to this Agreement as may be amended from time to time with the agreement of the ESC.

"Outer Harbour" means ABP's proposals to construct a five berth roll on-roll off terminal at the Port of Immingham.

"Phase 1 and Phase 2 Humber Estuary SPA and Ramsar Sites" shall mean those sites identified in the Immingham Outer Harbour Environmental Statement.

"Possible Special Area of Conservation" shall mean that site identified in the Immingham Outer Harbour Environmental Statement.

"Quay 2005" shall mean ABP's proposals to construct riverside berthing at the Port of Hull.

"Queen Elizabeth Dock Extension" shall mean that area identified in the Reclamation East of Queen Elizabeth Dock Environmental Statement.

4 Effect

4.1 This Agreement becomes binding upon ABP in respect of:

- (a) those elements of the Habitats Schemes detailed in clause 2.4(i), (ii) and (iii) upon the issue of the HRO for the Outer Harbour in terms satisfactory to ABP and the decision of ABP to implement the Outer Harbour HRO; and
- (b) those elements of the Habitats Schemes detailed in clause 2.4(iv) and (v) upon the issue of the HRO for Quay 2005 in terms satisfactory to ABP and the decision of ABP to implement the Quay 2005 HRO.

4.2 For the avoidance of doubt, this Agreement is not to be construed as prohibiting or limiting ABP's rights to develop the Ports of Immingham and/or Hull pursuant to later consents issued or secured after the date of this Agreement.

4.3 If for any reason a public inquiry is convened to consider ABP's proposals for the Outer Harbour and any of the signatories to this Agreement make representations which are considered by ABP to be contrary to the terms or spirit of this Agreement, then it is accepted by all signatories that

- (a) this Agreement shall not act as a fetter or restriction on the giving of representations at the inquiry by any or all of the parties to this Agreement; and
- (b) this Agreement shall cease to have effect insofar as it relates to the Outer Harbour and those elements of the Habitats Schemes detailed in clause 2.4(i), (ii) and (iii).

4.4 Should for any reason

- (a) an HRO not be issued for the Outer Harbour and/or Quay 2005; or
- (b) an HRO be issued for the Outer Harbour and/or Quay 2005 but not in terms satisfactory to ABP; or
- (c) following issue ABP decide not to implement either or both HROs

then ABP will send written notification to each of the parties to this Agreement informing them that ABP does not intend to implement the Outer Harbour HRO and/or the Quay 2005 HRO whereupon this Agreement shall be of no effect insofar as it relates to the Outer Harbour and those elements of the Habitats Schemes detailed in clause 2.4(i), (ii) and (iii) and/or Quay 2005 and those elements of the Habitats Schemes detailed in clause 2.4(iv) and (v) as the case may be.

5 ABP hereby covenants:

5.1 Not to commence the development of the Outer Harbour or Quay 2005 until

- (a) it has sufficient proprietary interest in the relevant land required for either the Outer Harbour or Quay 2005 Habitats Schemes as appropriate to enable it to carry out the works described in the Implementation Plan; and
- (b) any consents which are required for the implementation of the relevant Habitats Schemes have been issued with the exception of the consents required for Chowder Ness which shall be secured by ABP as soon as reasonably practicable.

5.2 To deliver subject to Appropriate Assessment the relevant Habitats Schemes in accordance with the Implementation Plan and the conditions of this Agreement;

5.3 To establish the ESC as soon as may be practicable after execution of this Agreement the terms of reference of which if appropriate shall include:

- (a) the review and approval of the monitoring requirements for the Harbour Development Works and Habitats Schemes to be set out in the Monitoring Plan as summarised in Schedule 7 hereto;
- (b) the review of any environmental information collected by ABP during the life of the management of the Harbour Development Works and Habitats Schemes;
- (c) the review and approval as appropriate of any changes required in the environmental management of the Harbour Development Works and Habitats Schemes;

5.4 To arrange, as far as practicable, that the ESC meets at least twice a year - the ordinary running expenses of the members as appropriate of the ESC (which shall include travel and attendance at meetings) being borne by the respective parties.

5.5 To make available to the ESC such information as may reasonably assist the ESC to fulfil its objectives as stated in clause 5.3 above provided such information would not be prejudicial to ABP's interests and/or its statutory duties as port operator and subject always to commercial confidentiality.

- 5.6 To monitor the impacts of the Harbour Development Works and the performance of the Habitats Schemes in accordance with the Monitoring Plan which will be based on the elements outlined in Schedule 7.

6 Review Procedure

- 6.1 The measure of the performance of the Habitats Schemes and the success or otherwise in meeting their objectives including those in clause 2.5 will be a matter for review by the ESC in accordance with the Monitoring Plan at the formal review periods of 5 and 10 years after completion of the construction of the Habitats Schemes all relevant factors and prevailing conditions (including those beyond the control of ABP) having been taken into account.
- 6.2 If the ESC identifies problems in the performance of the Habitats Schemes, ABP working with the ESC will use all reasonable endeavours to overcome the problems in a way which most accurately reflects the original objectives of the schemes including those set out in clauses 2.4 and 2.5.
- 6.3 The obligations set out under clause 5 of this Agreement will continue in force for a period of ten years, or if at the expiry of that period problems have been identified with the performance of the Habitats Schemes, until such later date as it becomes clear that the said schemes are performing satisfactorily according to the ESC.

7 Covenants

- 7.1 In relation to the Outer Harbour: -
- (a) English Nature, the Agency, RSPB and the LWT hereby covenant to withdraw their objections to the Outer Harbour HRO within 21 days of the date of this Agreement, such withdrawal to be made in writing to the Secretary of State and copied to ABP
- 7.2 In respect of Quay 2005:-
- (a) English Nature, RSPB and the YWT hereby covenant to withdraw their objections to the Quay 2005 HRO within 21 days of the date of this Agreement, such withdrawal to be made in writing to the Secretary of State and copied to ABP

8 Generally

- 8.1 Nothing in this Agreement shall be construed as prejudicing English Nature's independent and separate power or obligation to discharge its functions and English Nature shall remain entitled to apply all requirements of the Habitats Regulations any statutory re-enactment thereof and any further legislation that English Nature is now responsible for discharging or that it may become responsible for discharging in the future.
- 8.2 Nothing in this Agreement shall be construed as prejudicing or affecting the exercise of any statutory ~~duties~~ *functions* of the Agency.
- 8.3 Any dispute or difference arising out of or in connection with this Agreement (including without limitation any questions regarding its existence, validity, interpretation, performance or termination) shall be referred to and finally resolved by arbitration under the rules of the London Court of International Arbitration which are deemed to be incorporated by reference into this clause. The number of arbitrators shall be one.

IN WITNESS whereof the parties hereto have executed and delivered the Agreement as a Deed the day and year first above written.

Schedule 1

Summary of the effects of the Harbour Development Works

Further to clause 2.3 of this Agreement, a summary of the effects of the proposed construction of the Harbour Development Works are as follows:

Immingham Outer Harbour

Direct habitat loss = 22ha inside pSPA

Indirect losses= 5ha estimated

Function lost: mudflat used by feeding water birds in middle estuary

Typical species affected: shelduck, teal, ringed plover, lapwing, black-tailed godwit (126), curlew, redshank, and dunlin.

Total number affected: 603 peak mean (279 average)

Source of information: record of Appropriate Assessment April 2002.

Quay 2005

Direct habitat loss = 4ha outside SPA

Function lost: mudflat used by feeding water birds in middle estuary

Typical species: ringed plover, curlew, redshank, and dunlin

Total number affected: Peak in Feb 96 = 334

Peak in Jan 02 = 97

Mean of two peaks = 215

Function lost: loss of high tide roosting structures:

Typical species: dunlin, redshank and ringed plover

Total number affected: Peak in March 1996 = 376

Peak in Sept 2001 = 277

Mean of two peaks = 326

Source of information: Appropriate Assessment September 2002

Schedule 2

Welwick Managed Realignment Scheme

A managed realignment scheme will be undertaken on around 50ha of agricultural land at Outstray Farm, Sunk Island. The scheme will involve the following elements:

- Removal of existing flood bank and the reconstruction of new flood defences to the rear of the site. The new defences will be constructed with a minimum crest width of 4m and a minimum height of 5.6m above ODN, in line with the Agency guidance and to the Agency's reasonable satisfaction.
- Reprofilling of the site by between 0 to 1m resulting in the relocation of 94,000m³ of material which will be retained on site and incorporated into the new flood defences.
- Construction of appropriate breaches through the existing saltmarsh fronting the site.
- Re-routing of overhead power cables along the trackway to the east of the site.
- Provision of a footpath along the crest of the new defences to the rear of the site.
- Ploughing of the site prior to inundation to mitigate for any over-consolidation of sediment.

After 10 years, the scheme is predicted to create between 7-37ha of intertidal mudflat, 8-32ha of saltmarsh and 9-15ha of grassland, over a total area of 54ha.

Risks associated with the scheme some of which may be addressed through scheme design are:

- New design never tried before
- Compaction due to movement of heavy equipment may result in poor quality mudflat
- Poor quality saltmarsh due to the presence of rubble at the bank at the foot of the new sea wall

Schedule 3

Chowder Ness Managed Realignment Scheme

A managed realignment scheme will be undertaken on 13.6ha of agricultural land at Chowder Ness, Barton-on-Humber. The scheme will involve the following elements:

- Removal of existing flood bank and the reconstruction of new flood defences to the rear of the site, where required. The new defences will be constructed with a minimum crest width of 4m and a minimum height of 5.9m above ODN, in line with the Agency guidance and to the Agency's reasonable satisfaction.
- Reprofilling of the site by between 0 to 1m resulting in the relocation of 48,000m³ of material which will be retained on site and incorporated into the new flood defences.
- Provision of a footpath along the crest of the new defences to the rear of the site.
- Ploughing of the site prior to inundation to mitigate for any over-consolidation of sediment.

After 10 years, the scheme is predicted to create around 10.5ha of intertidal mudflat, 0.8ha of saltmarsh and 2.3ha of grassland.

Risks associated with the scheme some of which may be addressed through scheme design are:

- New design never tried before
- Compaction due to movement of heavy equipment may result in poor quality mudflat
- Disturbance from footpath may reduce potential bird usage of site

Schedule 4

Doig's Creek Habitat Enhancement Scheme

A habitat enhancement scheme will be undertaken on 4ha of existing intertidal area at Doig's Creek, Pyewipe. The scheme will involve the following elements:

- Closure of Doig's Sluice
- Construction of a new sluice of the face of the existing Grimsby Dock gates

The closure of the existing sluice will permit natural infilling of Doig's Creek with estuary sediment and lead to increases in the abundance and diversity of invertebrate species in the area. After 10 years, the scheme is predicted to enhance between 2-4ha of intertidal mudflat.

Schedule 5

Provision of Roosting Areas at Quay 2005 and Queen Elizabeth Dock Extension

An appropriately designed roost site will be installed at the western end of Quay 2005 to accommodate roosting birds displaced by the demolition of the West Wharf pier. The roost site will be separated from operational areas by an acoustic screen.

The Queen Elizabeth Dock Extension will be fronted with rock armour to provide some new long-term roosting habitat. Once these works have been completed, the existing footpath will be managed to minimise disturbance to roosting birds.

A risk associated with the scheme which may be addressed through scheme design is that the design of roosting structures may not attract the species affected by the development.

Compliance with the provisions set out in Section 4 of the Appropriate Assessment which mitigate the potential impacts of construction.

Schedule 6 Implementation Plan

The implementation plan provides details of the general mitigation measures and sets out the planned sequence of construction and timetables for the Habitats Schemes. Detailed timings will depend on the timings of consent approvals.

General Mitigation Measures During Construction

- A Code of Practice to be agreed by the ESC will be established for construction workers to ensure that they are aware of the particular sensitivities of the estuarine environment;
- Construction work will be required to adhere to the Agency's Pollution Prevention Guidelines for working on construction sites (PPG6) and other relevant Agency guidelines;
- Construction work will be suspended for any period during which there is a severe weather ban on wildfowling in force on the estuary;

Welwick Managed Realignment Scheme

It is proposed to construct the scheme over a period of two years in a number of stages. Construction works will be limited to the period April to August to avoid disturbance to over wintering waterfowl.

Year 1

- Construction of new sea defences to rear of the site using material from temporary borrow pits or from site reprofiling;
- Reprofiling of site to desired levels
- The front face of the embankment will be seeded with fast growing grass mix to promote stabilisation;
- The rear face of the embankment will be seeded with grass mix, supplemented with mowings from an area of high plant diversity from elsewhere on the North Humber bank;
- Translocation of rare plant species to new embankment from existing embankment.

Year 2

- Removal of existing sea defences in stages;
- Removal of fronting saltmarsh to create breaches;
- Ploughing of site to mitigate for any over-consolidation.

Chowder Ness Managed Realignment Scheme

It is proposed to construct the scheme over a period of two years in a number of stages. Construction works will be limited to the period June to October to avoid disturbance to bittern and minimise disturbance to over-wintering waterfowl.

Year 1

- Construction of new sea defences to rear of the site using material from temporary borrow pits or from site reprofiling;
- Reprofiling of site to desired levels
- The front face of the embankment will be seeded with fast growing grass mix to promote stabilisation;
- The rear face of the embankment will be seeded with grass mix, supplemented with mowings from an area of high plant diversity typical of the area;

Year 2

- Removal of existing sea defences in stages;
- Ploughing of site to mitigate for any over-consolidation.

Doig's Creek Habitat Enhancement

Construction of new sluices on the Grimsby dock gates can be completed within 12 months. Thereafter the existing Doig's Sluice can be closed. Sediment will then accrete naturally in Doig's Creek over a period of years until the area reaches an equivalent elevation to adjacent mudflat.

Creation of Replacement Roosting Areas at Quay 2005 and Queen Elizabeth Dock Extension

The rock armour wall for the Queen Elizabeth Dock Extension will be constructed following discussions with English Nature about the after use for this area. The construction of Quay 2005 is anticipated to require around 2 years. The roosting site will be constructed towards the end of this period.

Schedule 7 Monitoring Plan

The monitoring plan provides details of the generic environmental monitoring that will be undertaken for the Harbour Development Works and Habitats Schemes. Detailed monitoring requirements will be agreed by the ESC.

Immingham Outer Harbour

- Disturbance to waterfowl adjacent to the development;
- Suspended sediment concentrations in the vicinity of the dredging works;
- Deposition of sediment on intertidal areas in the vicinity of the dredging works;
- Deposition of sediment at and in the vicinity of the sediment placement sites;
- Deposition of sediment on intertidal areas adjacent to the sediment placement sites;
- Changes to intertidal profile upstream and downstream of Immingham Outer Harbour;
- Changes to intertidal invertebrates upstream and downstream of Immingham Outer Harbour;
- Changes in bird usage on intertidal areas adjacent to Immingham Outer Harbour;
- Monitoring of maintenance dredging disposal.

Quay 2005

- Concentrations of contaminants in the water column in the vicinity of the dredging works;
- Changes to intertidal profile upstream and downstream of Quay 2005;
- Changes in intertidal invertebrates upstream and downstream of Quay 2005;
- Changes in bird usage on intertidal areas upstream and downstream of Quay 2005

Welwick Managed Realignment Scheme

- Changes in intertidal profile within and in the vicinity of the Scheme;
- Changes in saltmarsh within, fronting and in the vicinity of the Scheme;
- Changes to intertidal invertebrates within, fronting and in the vicinity of the Scheme;
- Changes to waterfowl usage of intertidal areas within, fronting and in the vicinity of the Scheme;
- Changes to waterfowl usage of roosting areas in the vicinity of the Scheme;
- Monitoring of grassland habitats created in the Scheme;
- Monitoring of saline pools created in the Scheme;
- Monitoring of bird usage of grassland habitats created in the Scheme.

Chowder Ness Managed Realignment Scheme

- Changes in intertidal profile within and in the vicinity of the Scheme;
- Changes in saltmarsh within, fronting and in the vicinity of the Scheme;
- Changes to intertidal invertebrates within, fronting and in the vicinity of the Scheme;
- Changes to waterfowl usage of intertidal areas within, fronting and in the vicinity of the Scheme;
- Changes to waterfowl usage of roosting areas in the vicinity of the Scheme;
- Monitoring of grassland habitats created in the Scheme;
- Monitoring of bird usage of grassland habitats created in the Scheme.

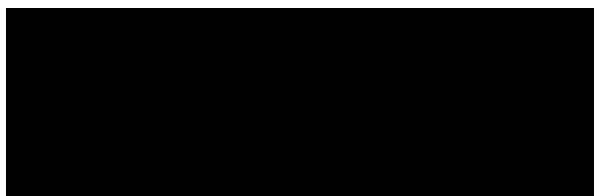
Doig's Creek Habitat Enhancement Scheme

- Changes in intertidal profile at the site;
- Changes in intertidal invertebrates at the site;
- Changes in bird usage at the site.

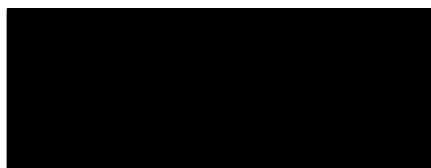
Provision of Roosting Areas at Quay 2005 and Queen Elizabeth Dock Extension

- Monitoring of bird usage of roosting areas at Quay 2005 and Queen Elizabeth Dock Extension.

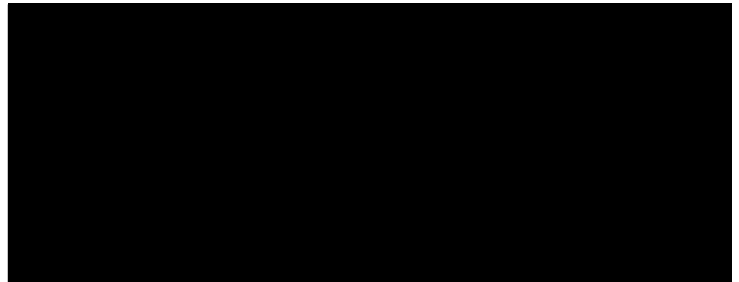
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Associated British Ports by



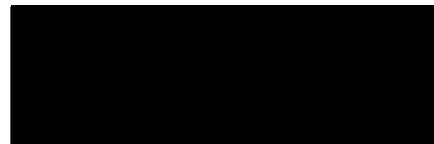
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English Nature by



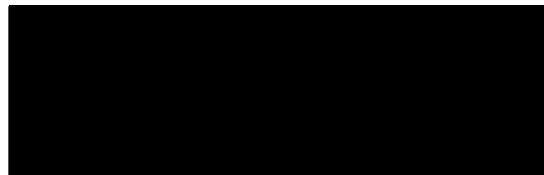
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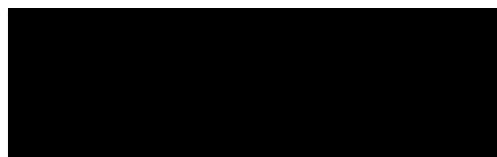
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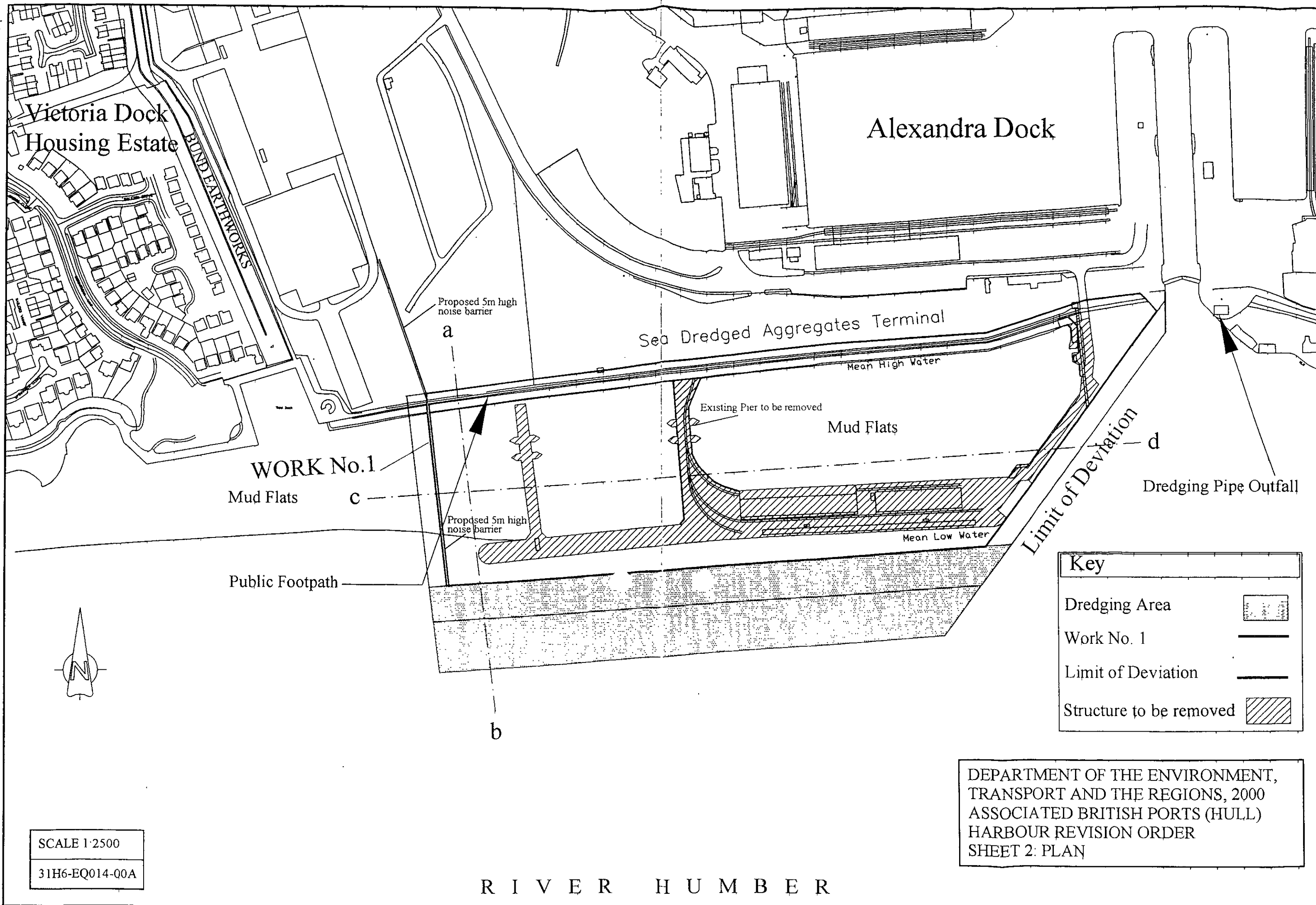


Executed as a Deed on behalf of the
Lincolnshire Wildlife Trust by



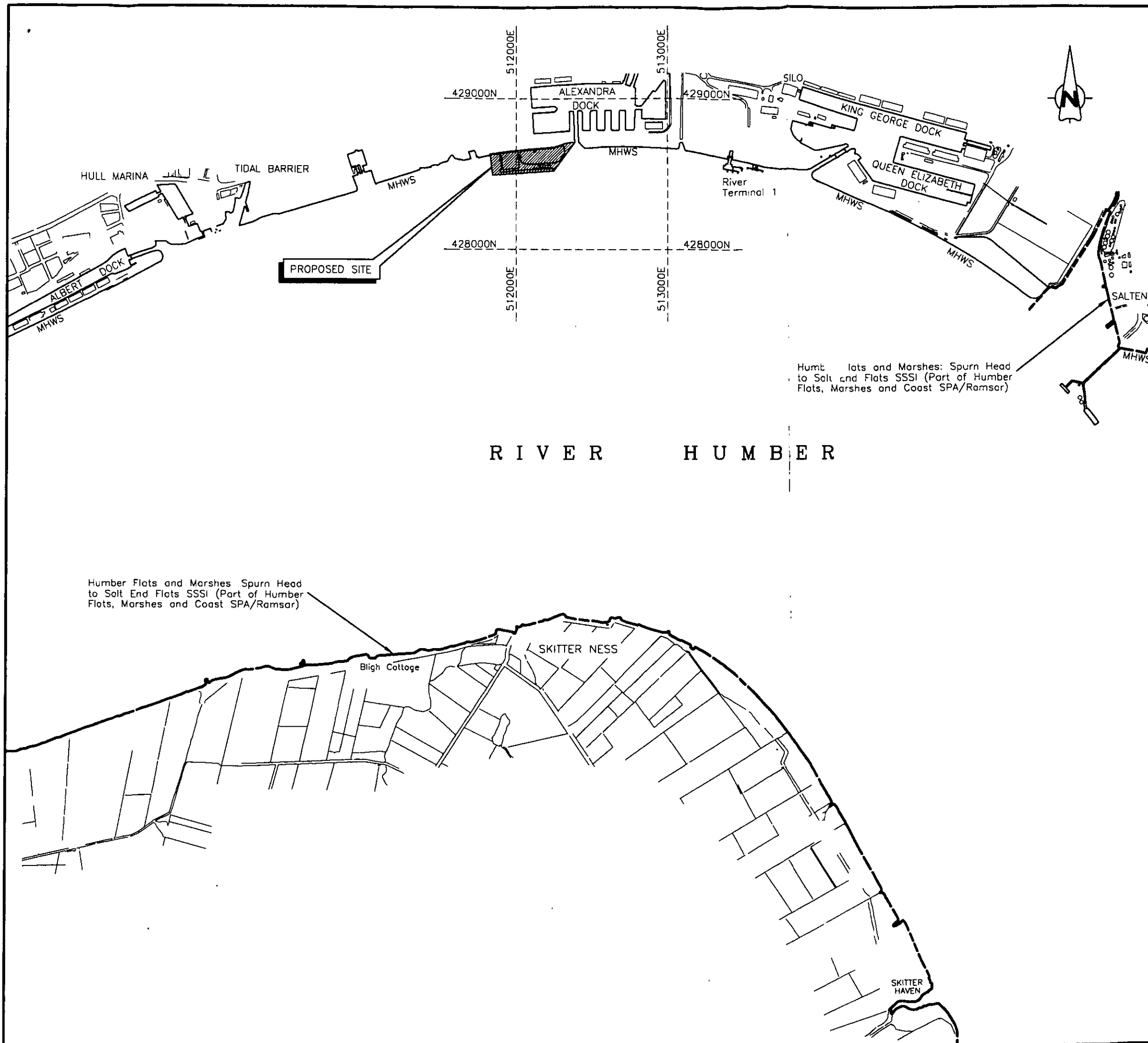
Executed as a Deed on behalf of the
Yorkshire Wildlife Trust Limited by





SCALE 1:2500

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Notes

UNCONTROLLED
COPY

A	Adjustable shore ramp remove	29/10/03	G Jacklin
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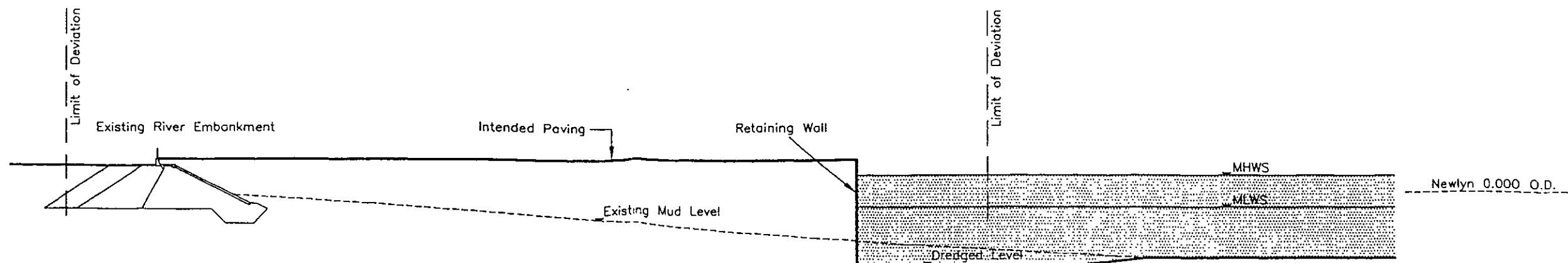
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ABP ASSOCIATED
BRITISH PORTS
NORTH-EAST REGION Engineering Department

Title
**ALEXANDRA DOCK
QUAY 2005
LOCATION PLAN AND
SURROUNDING AREA**

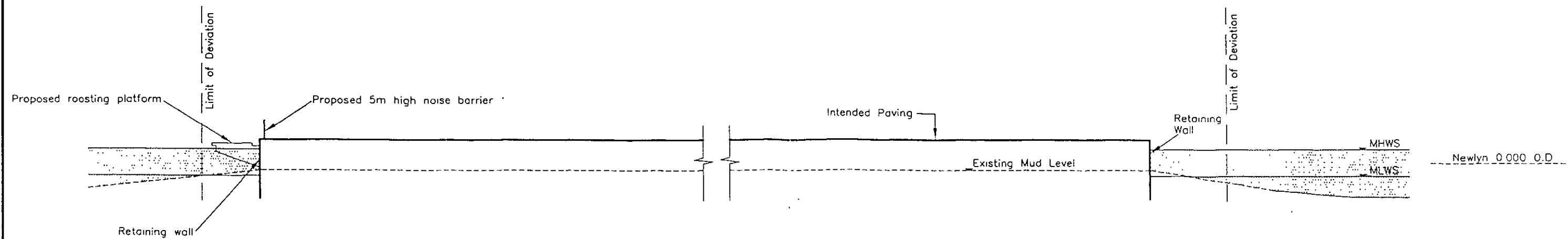
Location
Port of Hull

Drawn Graham Jacklin	Date Feb.2002
Checked	
Approved Projects Manager	Scales 1:25000
Correspondence Ref. DE/PJT/16/42	
Contract Drawing No	Drawing No. 02/DEC/17
	Revision A



Section a:b

1:1000



Harbour Revision Order
Sheet 3 : Sections

Note
Chart Datum is 3.9m
below Ordnance Datum

00/DEC/119 B

Section c:d

1:1000