



National  
Qualifications  
2022

**X826/75/11**

**Environmental Science  
Supplementary source booklet**

TUESDAY, 31 MAY  
9:00 AM – 11:30 AM

This booklet contains sources for use with question 9 in Section 2.

**Supplementary sources of information**

**Source 1** is a sketch map of an estuary on the east coast of the United Kingdom.

**Source 2** is information about maritime container terminals.

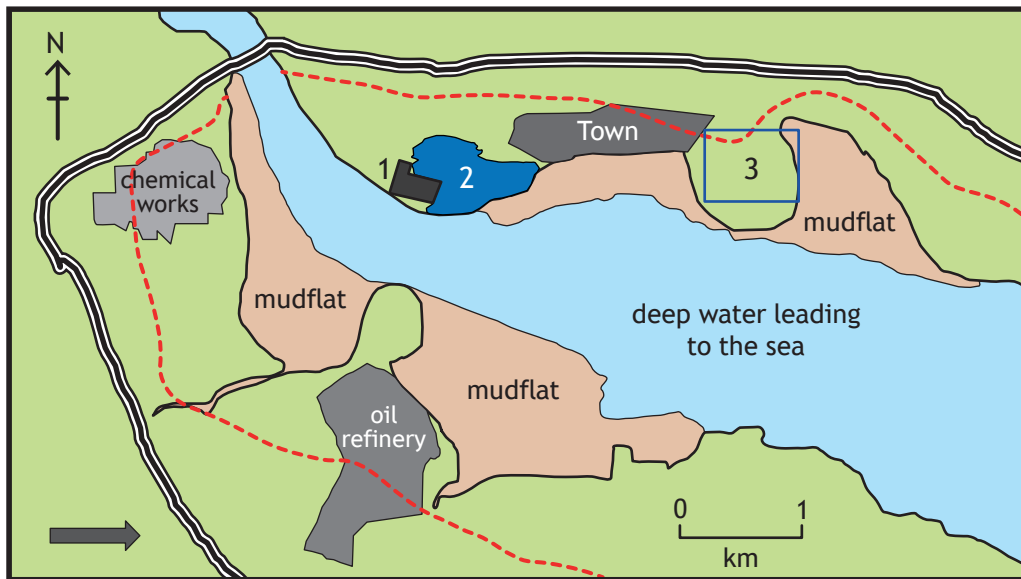
**Source 3** is a statement from the company proposing the development.

**Source 4** is a diagram of a bird species found on the mudflat.







\* X 8 2 6 7 5 1 1 \*

Source 1 Sketch map showing an estuary on the east coast of the United Kingdom



Key

-  prevailing wind direction
-  predicted coastline in fifty years due to rising sea levels
- 1 coal-fired power station
- 2 abandoned quarry
- 3 proposed new maritime container terminal
-  motorway
-  present day coastline

## Source 2 Information about maritime container terminals

A maritime container terminal is a harbour where cargo containers are loaded on or off ocean-going container ships. Trains and lorries are used to transport containers to and from the terminal. These terminals usually provide storage facilities for both loaded and empty containers. Loaded containers are stored for relatively short periods.



## Source 3 Statement from the company proposing the development

‘The construction of this container terminal will generate hundreds of jobs in this area by 2030 and will boost the local economy by £25 million annually. Road and rail links will have to be improved in the local area to allow efficient transportation of containers. This will encourage more new industries to move into this area, which create even more jobs in the future’.

[Turn over

**Source 4** Diagram of a bird species found on the mudflat

Some species of birds found on the mudflats have different coloured plumage (feathers) in winter and summer. One of these bird species is shown in the diagram.

winter plumage



summer plumage



**[END OF SUPPLEMENTARY SOURCE BOOKLET]**

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Source 2 Anita van den Broek/shutterstock.com

Source 4 Two images of Godwit birds are taken from RSPB website. Reproduced by kind permission of RSPB Images. © Mike Langman (rspb-images.com).