

Beach Monitoring



ENVIRONMENT AGENCY

NATIONAL LIBRARY &
INFORMATION SERVICE

ANGLIAN REGION

Kingfisher House, Goldhay Way,
Orton Goldhay,
Peterborough PE2 5ZR

Surveys

In order to understand the developments and processes acting on the coastline between Mablethorpe and Skegness, information in the form of beach surveys must be gathered and analysed. For soft engineering defences such as beach nourishment, the measuring of profiles is essential and information has to be collected regularly and stored effectively to enable meaningful analysis.

Topographic and hydrographic surveys of the coastline are undertaken at 3 monthly intervals. The main objectives being:

- _____ to define the situation just before and just after nourishment and to confirm that completed beach nourishment profiles are within the design tolerance;
- _____ to provide data to design the required nourishment volume during construction of the scheme;



Right and below:
Topographic Survey work.



- _____ to enable the identification of underlying trends in beach development;
- _____ to study the behaviour of the coastline after nourishment and the effect of the nourishment on adjacent areas; in particular, the area south of Skegness (downdrift) which is of importance for environmental (Gibraltar Point) and navigational (Skegness Banks) reasons.



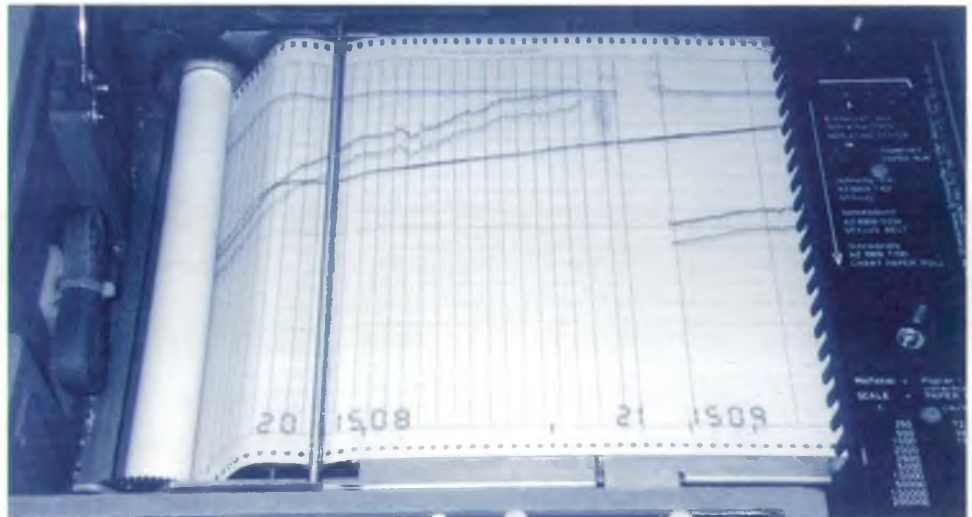
Beach Monitoring

Data Management System

The data management system is based on familiar desktop software and has been developed especially for the Lincshore Scheme. In addition to survey information the system enables environmental data to be stored and compared. Further development, in consultation with the Agency designers, will enable the establishment of critical profiles and/or volumes along the coast and automatic warnings if low beach levels are encountered.

The understanding of the trends in beach development is essential to enable the development of an effective programme of renourishment over the next 50 years and thus ensure the continuing protection of this length of vulnerable coastline.

Right: Bathymetric Survey
Plotter



Data Management Services for the Beach Nourishment Phase 2 Scheme are being provided by Scott Wilson Kirkpatrick, Peterborough office. Tel (01733) 896655

INFORMATION

For information on any issues concerning the project, please contact:

Anderby Site Office Tel (01754) 872546
Open every Tuesday 10.00am - 12.00 or
Manby Office Tel (01507) 328102
Fax (01507) 328737



**ENVIRONMENT
AGENCY**