

# **DTI STRATEGIC ENVIRONMENTAL ASSESSMENT AREA 8 (SEA8)**

## **Contamination of Water and Sediments**

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Contract Number SEA678\_CV\_data8CB

Final Report

March 2004

## Acknowledgements

In addition to the authors, many scientists and workers in the marine industry contributed references to the database and their contributions are gratefully acknowledged.

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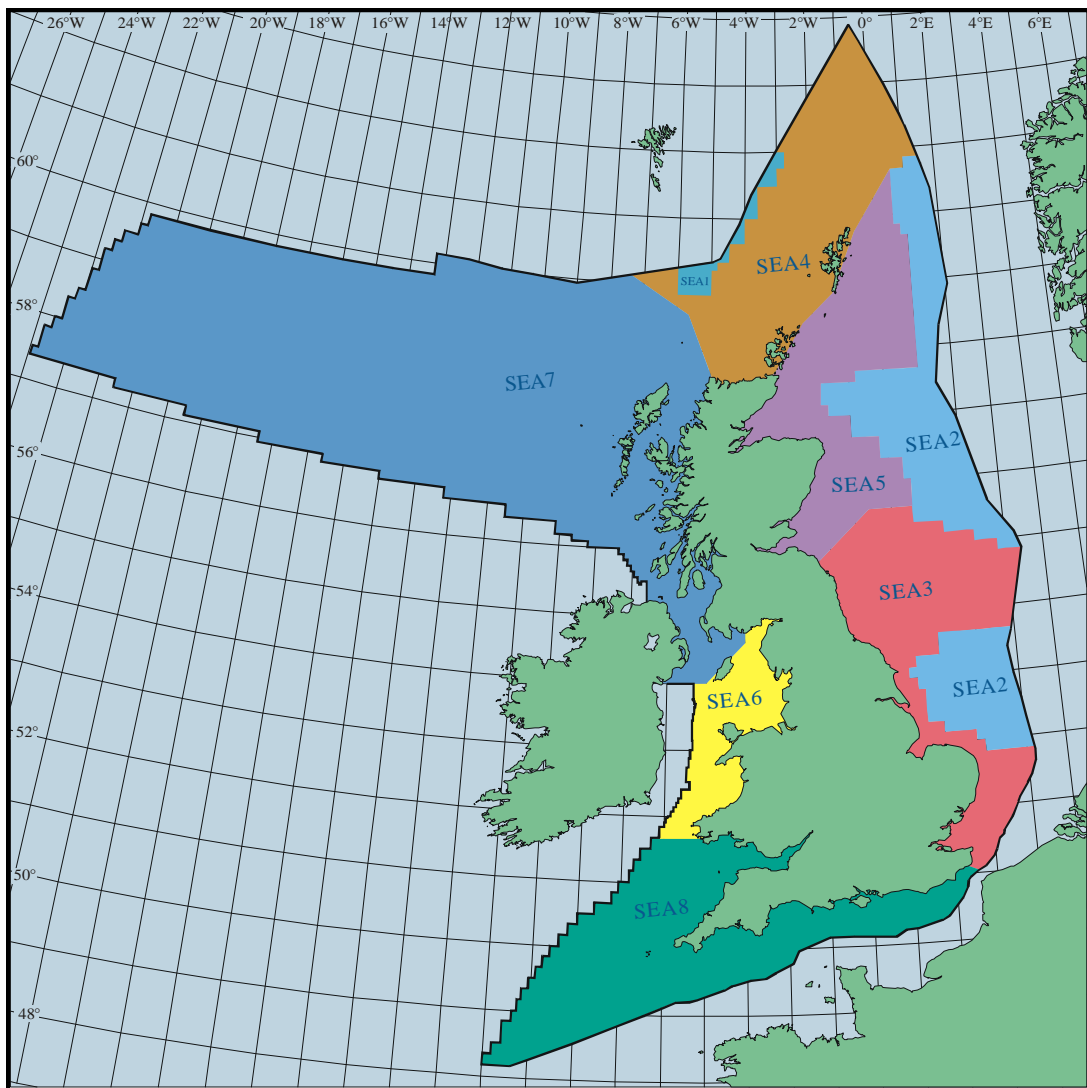
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# 1 Introduction

This report describes work commissioned by the Department of Trade and Industry (DTI) to prepare an inventory of contamination of water and sediments metadata for the Strategic Environmental Assessment area 8 (SEA8) in terms of data type, location, quality and availability.

The SEA8 region lies between 48° and 52°N, 2°E and 10°W, and is presented in Figure 1. The area includes the DTI UK Continental Shelf Designated Area from Dover through the English Channel to the edge of the continental shelf in the Celtic Sea; the southern Irish Sea south of Milford Haven; and the Bristol Channel.



**Figure 1 Strategic Environmental Assessment Areas**

In accordance with the scope of work the report includes:

- A description of the study area with a synopsis of the contamination of water and sediments;
- A listing of international, national and local organisations and contacts who are active in the subject area or hold information and associated initiatives and data sets.
- The meta-data inventory, comprising a comprehensive list of references and other sources of information including:
  - i. whether published (white and grey), unpublished, public domain, private etc.
  - ii. notes and graphics showing spatial and temporal extent;
  - iii. format (book chapter, paper, dataset etc);
  - iv. location;
  - v. accessibility.

The main body of the inventory was compiled in June 2003. The database has been produced in an Endnote® database which contains 1558 entries and is provided on compact disk in Appendix 3.

## **2 Description of the Study Area**

### **2.1 Introduction**

Sediments are widely recognised as a suitable medium for assessing environmental quality as they reflect and integrate contaminant inputs to the marine environment allowing sources and sinks to be identified. Also, the monitoring of contaminants in sediment is becoming increasingly recognised as important because sediments can act as a reservoir or long term sink for many metals and hydrophobic organic contaminants. A third factor favouring the use of sediments for monitoring environmental quality, particularly for organic compounds, is that concentrations are relatively high compared to those in seawater, thus making analysis more straightforward.

In the late 1980s the Joint Monitoring Group (JMG) of the Oslo and Paris Commissions initiated an international programme to assess the spatial distribution of metals and organic substances in marine sediments throughout the JMP area. 12 countries collected

seabed samples for this 'JMG Baseline Sediment Study' in 1990 and 1991. Data from analyses of the samples have been submitted to ICES and combined with results produced for the North Sea Task Force (NSTF) assessment of the quality of the North Sea (QSR). The North Sea component of the dataset (data from 8 countries) was assessed by an ICES/JMG/NSTF working group (SEDMON) in May 1992 for use by the NSTF in the 1993 QSR. In December 1992, the whole dataset was assessed by the *ad hoc* working group of the JMG (ADHOCMON92).

## **2.2 English Channel**

Sands and gravels with a few areas of muddier deposits near to shore, notably in Lyme Bay and the Solent, dominate the sediments of the Channel. The sediments generally contain small amounts of mud and have a significant quantity of rock fragments, and therefore normalising element, present in the coarse fraction. As a result it is inappropriate to normalise the data using either aluminium or lithium.

The metal concentrations are generally highest near the shore in the western part of the channel, particularly in the muddy areas of Lyme Bay and offshore from the area of natural mineralisation in Cornwall. There are some notable exceptions to this. Cadmium (associated with shell) is highest offshore. There are relatively high mercury concentrations to the east of the Solent.

## **2.3 South-Western Approaches**

The sediments to the southwest of UK contain significant quantities of fine shell material. They contain only small quantities of clay mineral and are therefore not suitable for normalisation with aluminium or lithium. The data are treated as raw concentration values.

Steve Rowlatt (10/03/04)

### 3 Methodology

The information compiled for this report was primarily based on the contractors' personal experience of estuarine and coastal oceanographic and marine environmental surveys, and supplemented by information from personal contacts and comprehensive on-line literature searches.

The online literature searches were conducted by interrogation of two databases published by the National Information Services Corporation (NISC), which are accessed through the Web search service BiblioLine:

- **Marine, Oceanographic & Freshwater Resources (MOFR)** is an exclusive combination of global bibliographic databases on marine, oceanographic, and related freshwater resources. It provides comprehensive coverage of over 1,000,000 records on international marine and oceanic information, as well as substantial coverage of estuarine, brackish water, and freshwater environments.
- **Aquatic Biology, Aquaculture & Fisheries Resources (ABAFR)** combines all relevant portions of Aquatic Sciences & Fisheries Abstracts (ASFA) with FISHLIT, CABI and AGRIS Fisheries & Aquaculture subsets, Fisheries Review, Fish & Wildlife Reference Service. All taxa have been expanded - from genus to subkingdom - using the National Oceanographic Data Center (NODC) and FISHLIT taxonomic codes.

The database records include scientific journals and periodicals, monographs, proceedings of conferences and symposia, government reports, books, theses and dissertations, and other relevant documents. Many are rare, unpublished, or not indexed by other databases.

The two online literature searches were conducted using the blanket subject matter keywords of 'Pollut\*' and 'Contam\*' in combination with geographical keywords which are presented in Table 1. The blanket subject matter keywords were selected in preference to using specific pollutant keywords e.g. pesticide, sewage, etc. because it was apparent that references pertaining to specific pollutants were already additionally assigned either 'Pollut\*' or 'Contam\*'. These searches produced in excess of 3,500

references, and in order to reduce this to a manageable size, many of the records pertaining to the following list of topics were deleted:

- Experimental studies on the uptake and effects of metals by marine organisms including bioaccumulation, pollution indicators, population dynamics, feeding and fecundity
- Primary & secondary production, productivity, eutrophication and plankton blooms
- Modelling studies, (hydrodynamics and sediment transport mechanisms)
- Development of methodologies, bioassays, procedures and techniques
- Equipment testing, Programmes and measures to control pollution
- Dispersant testing and clean up operations

This final selection process reduced the number of references down to a little over 1000.

<b>Large Scale Areas</b>		
Straits of Dover	English Channel	South-West Approaches
Celtic Sea	Bristol Channel	St Georges Channel
<b>Coastal and Offshore Areas</b>		
Goodwin Sands	Nympe Bank	Celtic Deep
Cockburn Bank	Great Sole Bank	Haddock Bank
Melville Knoll	Jones Bank	Whittard Canyon
King Arthur Canyon	Goban Spur	Labadie Bank
Bullock Bank	Haig Fras Basin	Scilly Isles
<b>Estuaries and Harbours</b>		
Rye Bay	Pagham Harbour	Chichester Harbour
Langstone Harbour	Portsmouth Harbour	The Solent
Southampton Water	Christchurch Harbour	Poole Bay
Lyme Bay	Exe Estuary	Teign Estuary
Tor Bay	Dart Estuary	Plymouth Sound
Fal Estuary	Falmouth Bay	Camel Bay
Taw-Torridge Estuary	Severn Estuary	

**Table 1 List of Keywords for SEA8 literature search**

In order to avoid duplication of effort, the contractors who carried out the contamination and geology searches for SEA6 and SEA7 concurrently compiled contamination bibliographic data sets for SEA8. The searches for journal, thesis and other references were completed, using keywords presented in Appendix 1, for each of five online bibliographic databases: Web of Science; Georef; GeoArchive; Zetoc; and Aslib. The retrievals from these searches were kindly supplied by Richard Holmes (British



Geological Survey, Edinburgh) and have been included in the SEA8 EndNote database accompanying this report.

A number of additional data searches were conducted to supplement the information retrieved from the online literature searches. Specific organisations and individuals were contacted by a combination of visits, telephone calls, and emails. A list of contacts is presented in Section 4.

## 4 Sources of Metadata

### 4.1 Principal Contributors

'**Neptune**' is a geo-referenced meta-database of marine environmental research around the British Isles. The database was prepared by CEFAS and BGS in the late 1990s for DETR (now DEFRA) and is described in Rowlatt *et al.* (1999). [www.cefas.co.uk](http://www.cefas.co.uk)

**British Oceanographic Data Centre (BODC).** The BODC is located at Bidston, Merseyside and houses the largest and most comprehensive marine datasets in the UK (BODC Directory of Marine Environmental Data Sets). All data is available to the public without cost and can be downloaded or ordered from the website [www.bodc.ac.uk/](http://www.bodc.ac.uk/) BODC Projects include the following:

- **OMEX1 (Biology, Physical, Chem, SedS):** The Ocean Margin EXchange (OMEX) I Project was aimed at understanding, evaluating and modelling the physical, biological, chemical and sedimentological processes occurring along the northwest European shelf break (mainly in the Goban Spur area, northwestern Biscay Gulf). The project was partly supported by the European Union within the MARine Science and Technology (MAST) programme (Contract MAS2-CT93-0069) and ran from June 1993 to May 1996.

A double CD-ROM containing the final OMEX-I Project Data Set was published in November 1997. It represented the culmination of 10 staff years of effort since BODC was first contracted by the EU to act as the OMEX Project Data Centre in early 1994.

- **EDMED:** The European Directory of Marine Environmental Data (EDMED) was initiated in 1991 by the BODC within the EC-MAST framework and has established itself as a de-facto European standard for indexing and searching datasets relating to the marine environment. It covers a wide range of disciplines and is a high level inventory, describing both Datasets and Data Holding Centres. At present, EDMED already describes more than 2300 Datasets from over 500 Data Holding Centres across Europe.  
All national directories are assembled into a single centralised system managed by the BODC and are made available via the Sea-Search website. Activities are now underway by the 16 European Sea-Search partners, from 14 coastal states, to update their national EDMED entries and to develop and install an innovative infrastructure for updating the EDMED database by means of the Internet. Also an interlink will be made with the Information Service for Earth Observation Data (INFEO) of the Centre of Earth Observation (CEO). Furthermore, cooperation is underway with the IOC-IODE to harmonize formats in order to establish a uniform global metadata format, that will be the basis for further EDMED developments.
- **UK Cruise Inventory:**  
Interrogation of the inventory for the sea areas Bristol Channel, Celtic Sea and English Channel identified 423 datasets. Each record includes valuable information detailing the cruise date, duration, location and a description of measurements undertaken.

**The Environment Agency** is responsible for maintaining and improving the quality of fresh, marine, surface and underground water in England and Wales. Routine water quality monitoring, a variety of site specific surveys and research projects are conducted to support the requirements of European Directives. All data are in the public domain. In addition to the routine monitoring, water and sediment quality data are collected on behalf of Water Companies in support of applications for the discharge of wastewater, or on behalf of developers, Port Authorities or any others requiring permissions for marine works. The Tidal Waters Team based at Exeter maintains a database of marine reports for the south west region (from Christchurch following the coastline to Bristol). Contact [debbie.tyrrell@environment-agency.gov.uk](mailto:debbie.tyrrell@environment-agency.gov.uk).

Also contact [david.lothian@environment-agency.gov.uk](mailto:david.lothian@environment-agency.gov.uk) for water and sediment quality data collected along the south coast. [www.environment-agency.gov.uk](http://www.environment-agency.gov.uk)

**Southern Water** hold number of reports and data relating to the treatment and discharge of wastewater to the marine environment in support of applications to the Environment Agency for consent to discharge. If the report is required for non-Southern Water purposes, then a charge may be made.

[simon.burgess@southernwater.co.uk](mailto:simon.burgess@southernwater.co.uk)

**Titan Environmental Surveys** hold a large amount of data relating to contamination of water and sediments from marine studies conducted along the southern Welsh coast and the Bristol Channel. For a small administration fee, the data is available from Titan provided permission has been granted from the client who commissioned the work.

[www.titansurveys.com/](http://www.titansurveys.com/)

## **4.2 General Web Searches**

**Electronic Marketplace for Information on Decommissioning of Offshore Installations** – (EMIDOI). The EMIDOI project has been designed to provide an electronic marketplace and portal site where users and providers of information & data of relevance to decommissioning of offshore installations, can meet, exchange data & information and develop business relationships. A metadatabase system is defined and developed to index references to information such as baseline geochemical samples and analyses of the seabed around installations and documents that are of relevance as input for Environmental Impact Assessments. [www.decomplatform.com/](http://www.decomplatform.com/)

**The Irish Marine Data Centre** (ISMARÉ, Dublin) has an electronic database (Extended EDMED for Ireland) [www.marine.ie](http://www.marine.ie).

**The Irish EDMED** database is based on the format used by the British Oceanographic Data Centre [www.bodc.ac.uk](http://www.bodc.ac.uk),

The **Marine Biological Association** (MBA): [www.mba.ac.uk](http://www.mba.ac.uk) and Plymouth Marine Laboratory (PML): [www.pml.ac.uk](http://www.pml.ac.uk)

**Fisheries Research Services**, Marine Laboratory, Aberdeen [www.marlab.ac.uk](http://www.marlab.ac.uk)

**The Scottish Association for Marine Science (SAMS)** at Dunstaffnage Marine Laboratory, Oban, holds a large amount of relevant data, some of which are unpublished. Membership is required for access to the SAMS library. [www.sams.ac.uk](http://www.sams.ac.uk)

**CoastNET** is the UK's national network that supports those who care for and manage our diverse coastline. It was established in 1995 and has evolved to provide a practical network for the exchange of information, ideas and expertise in the sustainable management of the coastal and marine environment. [www.coastnet.org.uk](http://www.coastnet.org.uk)

**The Inter-Agency Committee on Marine Science and Technology (IACMST)** maintains an overview of marine activities across Government. It encourages links between Government and the national marine community, the wider application of marine science and technology, optimum use of major UK marine facilities, training and education and international links.

[www.marine.gov.uk/iacmst\\_publications.htm](http://www.marine.gov.uk/iacmst_publications.htm)

**The Marine and Land Based Inputs to Sea (MLIS)** research programme is commissioned by Marine, Land and Liability division of DETR to support the development of UK marine environmental policy and its co-ordination with marine science. The programme particularly supports the development of the UK input to the work of the Assessment and Monitoring Committee (ASMO) set up under the 1992 Convention for the Protection of the Marine Environment of the North East Atlantic (the OSPAR Convention), [www.ospar.org](http://www.ospar.org). The full list of research projects that have been funded by the Department as part of the MLIS Research Programme, since the programme's inception in 1988 can be found at:

[www.defra.gov.uk/environment/marine/mlis/rplist.htm](http://www.defra.gov.uk/environment/marine/mlis/rplist.htm)

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## **5 Appendices**

## **Appendix 1**

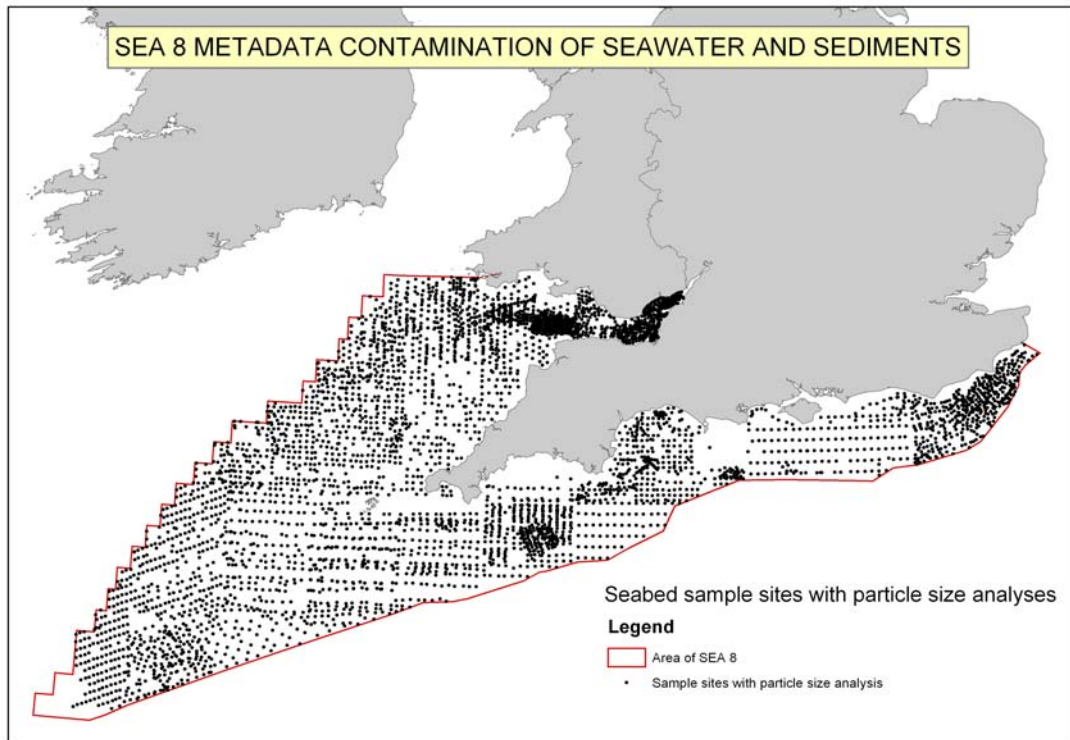
**Keywords used in searching the bibliographic  
databases for SEA6, SEA7, and SEA8 by BGS and  
CEFAS**

Irish Sea	Sula Sgeir Fan	Inner Clyde, Clyde
Liverpool Bay	Sula Sgeir	Enard Bay
Solway Firth	Malin Shelf	Rubha Coiseach
North Channel	North Rona	Edrochillin Bay
Mersey Estuary	Butt of Lewis	Cape Wrath
Ribble Estuary	Outer Hebrides	Solan Bank
Sellafield	Inner Hebrides	Glasgow
Straits of Dover	Scottish Mainland	Stanton Bank(s)
Scilly Isles	Lewis	Geikie Bulge
Fal	South Harris	Darwin Mounds
Tamar	Benbecula	Flannan Trough
Falmouth Bay	North Uist	Geikie Escarpment
Cardigan Bay	South Uist	Larne
St Georges Channel	Barra	Kishorn
Tremadoc Bay	Barra Head	Ronan Basin
Menai Straits	Malin Sea	Hatton Drift
Morecambe Bay	North Minch	Iceland Basin
South-West Approaches	South Minch	Peach Slide
Celtic Sea	The Little Minch	Summer Islands
Bristol Channel	Sound of Ramsay	Priest Island
English Channel	Inner Sound	Finnan Islands
Severn Estuary	Raasay	Western Island
Lyme Bay	Rona	Shiant Islands
Poole Bay	Skye	Loch Roag
Southampton Water	Monach Island	W. Loch Tarbet
The Solent	Rhum	Dabbay
Malin Sea	Eigg	Monach Islands
N.E. Atlantic Ocean	Muck	Sound of Barra
Rockall Trough	Tiree	Vatersay Sound
Northern Rockall	Coll	Loch Resort
Trough	Mull	The Narrows
N E Rockall Basin	Staffa	Loch Maddy
Maury Channel	Treshnish Islands	Loch Uskavagh
Endymion Spur	Skerrymore	Loch Carman
Hatton Bank	Blackstones Bank	Loch Skiport
Hatton-Rockall Basin	Mull of Kintyre	Loch Eynort
Rockall Plateau	Rathlin Island	Loch Boisdale
Rockall	North Channel	Castle Bay
George Bligh Bank	Ailsa Craig	Loch Vatersay Sound
Bill Bailey Bank	Firth of Clyde	Red Point
North Feni Ridge	Beauforts Dyke	Berneray Sound
Feni Ridge	Luce Bay	Shillay Sound
Rosemary Bank	Isle of Man	Stornoway
Wyville	Dundalk Bay	Loch Grimashadur
Thomson Ridge	Belfast	Loch Luirbost
Anton Dohrn Seamount	Belfast Loch	Sound of Harris
St Kilda	Clyde	Village Bay
Hebrides Shelf	Ailsa Craig	Loch Bracadale
Hebridean Shelf	Bute	Ardnamuchan Point
Barra Fan	Great Cumbræ	Tiree Passage
Donegal Fan	Little Cumbræ	Loch Soridain

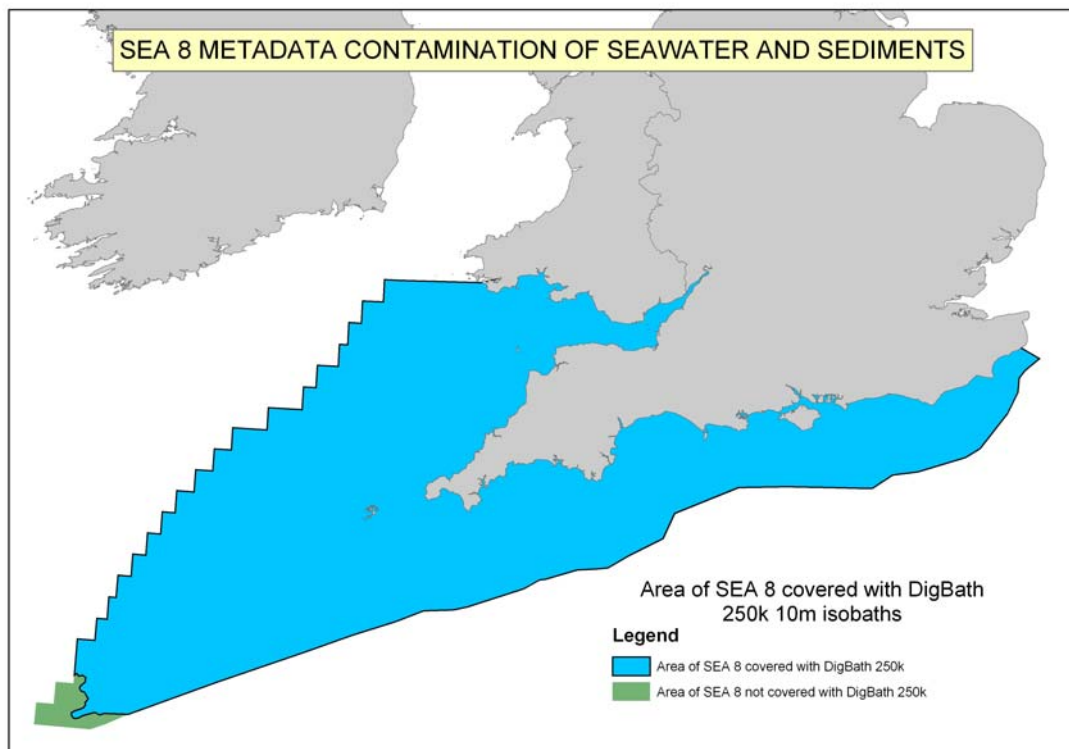
Jura Sound	Gareloch	Geology
Firth of Lorne	Rhu Marrows	Petroleum
Oban	Faslane	Quaternary
Loch Fyne	Loch Goil	Holocene
Loch Long	Loch Striven	Radionuclides
Loch Linnhe	Dunoon	Seismic
Loch Faslane	Inchmarnock Water	Tectonics
Greenock	Loch Gilp	PAH
Dumbarton	Loch Tarbet	PCB
Sound of Mull	Gigha	Deposition
Loch Sunart	Sound of Gigha	Metals
Sound of Sleat	Corryvreckan	Hydrocarbon
Loch Hourne	Loch Crinan	TBT
Loch Alsh	Loch Etive	Environment
Loch Carron	Loch Crenan	Sea floor
Loch Torridon	Loch Leven	Metal
Loch Garloch	Loch Eil	Processes
Loch Eive	Ballachulish Bay	Trace elements
Gruinard Bay	Lismore Island	
Loch Broom	Linn of Morven	
Loch Kanaird	Lynn of Lorne	
Loch Inver	Loch Ailine	
Point of Stoer	L. A'Choire	
Eddrachillis Bay	N. Nevis	
Loch Lauford	Loch Tudth	
Loch Inchard	Sound of Iona	
Kilbrannan Sound	Treshnish	
Ailsa Craig	Gott Bay	
Loch Ryan	Gunna Sound	
Stranraer	Loch Eathama	
Mull of Galloway	Mallaig	
Burrow Head	Kyle Rhea	
Peel	Loch Euich	
Isle of Man	Loch Alsh	
Port Erin	Kyle Akin	
Calk Sound	Strome Narrows	
Port St Mary	Broadford Bay	
Castletown Bay	Loch Kishorn	
Loch Carlingford	Caol Moire	
Strangford Loch	Loch Sheldaig	
Donaghadee Sound	Ayr Bay	
Ardglass Harbour	Brodick Bay	
Killough Harbour	Irvine Harbour	
Larne Harbour	Troon Harbour	
The Maidens	Ayr Harbour	
Portrush	Ullapool	
Kilbrannon Sound	Firth of Lorne	
Campbleton Loch		
Sanda Island	Organic contamination	
Holy Loch	Sediments	
Ardrossan	Contaminants	
Greenock	Contamination	
Gourroch	Stratigraphy	

## **Appendix 2**

### **Maps**

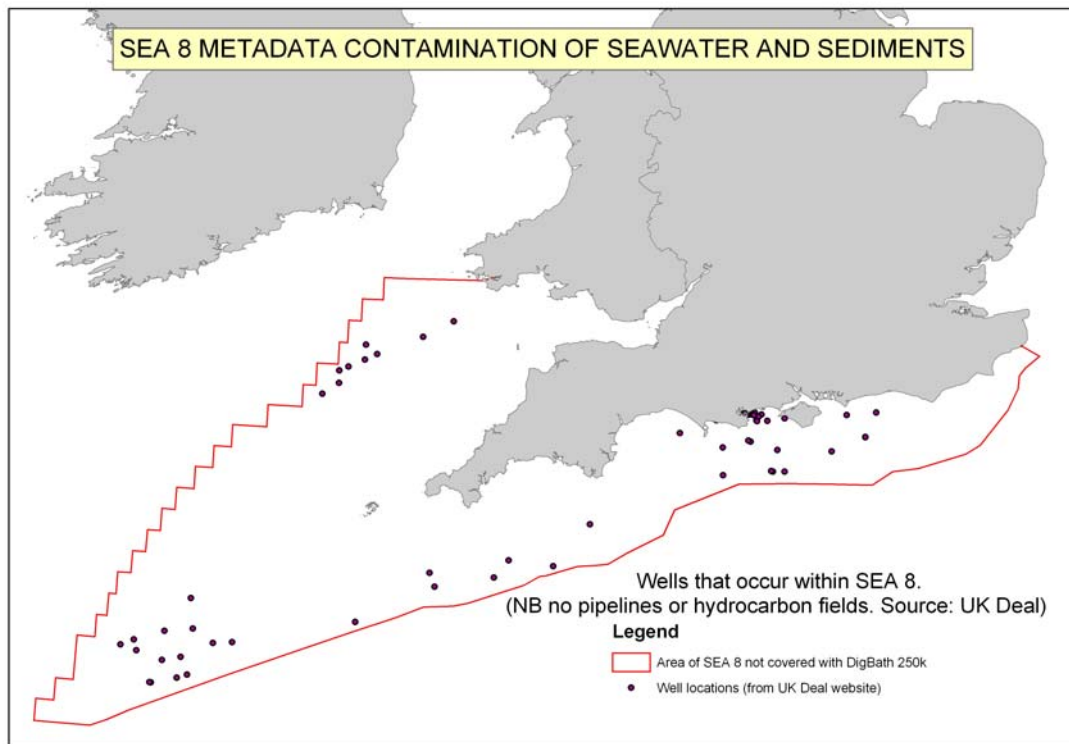


Map 2a. Seabed Sample Sites with Particle Size Analysis (map supplied by BGS, data held at BGS)

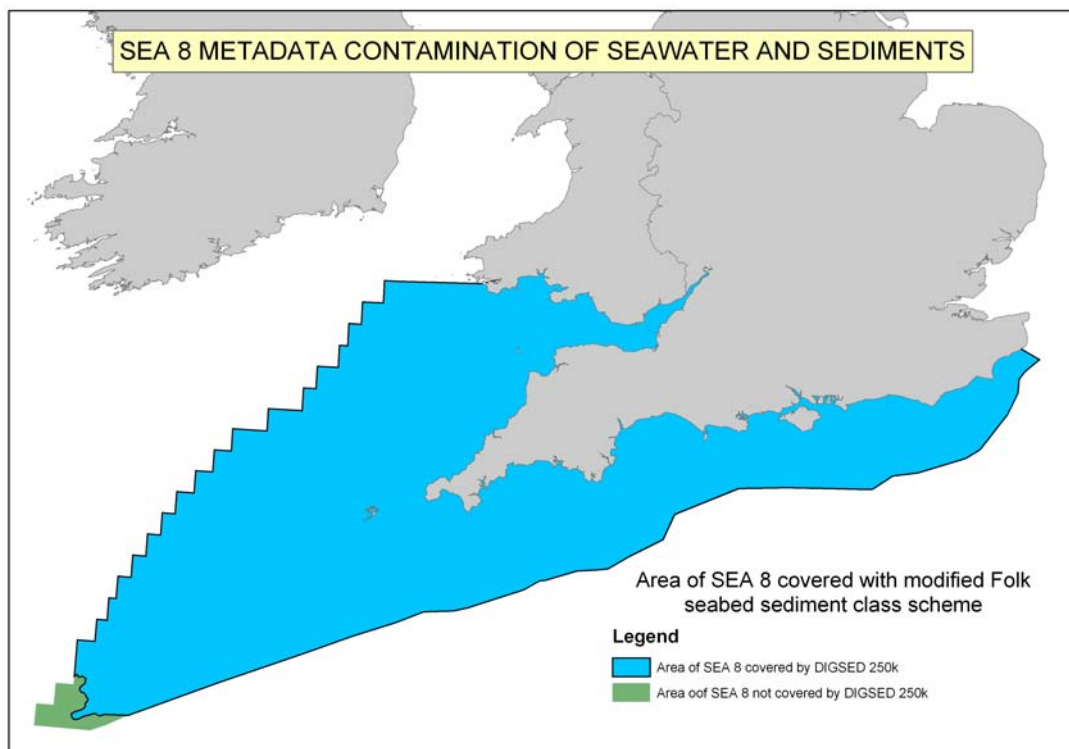


Map 2b. Area of SEA8 covered with DigBath 250k 10m isobaths Analysis (map supplied by BGS, data held at BGS)





Map 2c. Wells that occur within SEA8 (map supplied by BGS, data held at BGS)



Map 2d. Area of SEA8 covered with modified Folk seabed sediment class scheme (map supplied by BGS, data held at BGS)

## **Appendix 3**

**Endnote© file (on compact disk)**

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