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Long-Term Programme for Pollution Monitoring and Research

in the Mediterranean Sea (MED POL - PHASE II)

REPORT ON THE IMPLEMENTATION OF THE PROTOCOL FOR

THE PREVENTION OF POLLUTION OF THE MEDITERRANEAN

SEA BY DUMPING FROM SHIPS AND AIRCRAFT

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Introduction

1. The Convention for the Protection of the Mediterranean Sea against Pollution<sup>1/</sup> in its Article 5 states that "The Contracting Parties shall take all appropriate measures to prevent and abate pollution of the Mediterranean Sea Area caused by dumping from ships and aircrafts".
2. The Protocol for the Prevention of Pollution of the Mediterranean Sea by Dumping from Ships and Aircraft<sup>2/</sup> specifies the ways and means agreed by the Contracting Parties for the implementation of Article 5 of the Convention.
3. Article 14 of the Protocol states that "it shall be the function of the meetings of the Parties to this Protocol:
  - (a) To keep under review the implementation of this Protocol, and to consider the efficacy of the measures adopted and the need for any other measures, in particular in the form of annexes;

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1/ The Convention for the Protection of the Mediterranean Sea against Pollution entered into force on 12 February, 1978 and has the following Contracting Parties:

Algeria	Libyan Arab Jamahiriya
Cyprus	Malta
EEC	Monaco
Egypt	Morocco
France	Spain
Greece	Syria
Israel	Tunisia
Italy	Turkey
Lebanon	Yugoslavia

2/ The Protocol for the Prevention of Pollution of the Mediterranean Sea by Dumping from Ships and Aircraft entered into force on 12 February 1978 and has the following Contracting Parties:

Algeria	Libyan Arab Jamahiriya
Cyprus	Malta
EEC	Monaco
Egypt	Morocco
France	Spain
Greece	Syria
Italy	Tunisia
Lebanon	Turkey
	Yugoslavia

- (b) To study and consider the records of the permits issued in accordance with Articles 5, 6 and 7 and of the dumping which has taken place;
  - (c) To review and amend as required any annex to this Protocol; and
  - (d) To discharge such other functions as may be appropriate for the implementation of this Protocol".
4. In pursuance of the provisions of Article 14 of the Protocol, the United Nations Environment Programme (UNEP) as the organization assigned by the Contracting Parties to carry out the secretarial functions for the Convention and the Protocol, has prepared this document covering:
- (a) The records of the special and general permits issued in accordance with Articles 5, 6 and 7 and on the amount of waste authorized for dumping according to these permits;
  - (b) The records of the actual amount of waste reported as dumped into the Mediterranean Sea in accordance with Articles 5, 6 and 7;
  - (c) The records of reported dumping authorized in accordance with Article 8;
  - (d) The records of consultations carried out in accordance with Article 9;
  - (e) The review of the implementation of the Protocol and of the efficacy of the adopted measures; and
  - (f) The recommendations of the secretariat for improved efficiency of the Protocol's implementation.
5. The document was prepared for the Second Meeting of the Working Group, which is invited to provide the secretariat with comments on its contents and on the proposed recommendations. On the basis of the review of the document, and taking into account the comments expected from the members of the Working Group, the Working Group may wish to make recommendations to the Executive Director of UNEP, with a view of their transmission to the forthcoming Extraordinary Meeting of the Contracting Parties (April 1984), together with a revised version of this document planned to be prepared by the secretariat.

- A. Report on the permits issued in accordance with Articles 5, 6 and 7 and on the amount of waste authorized for dumping according to these Articles.
6. Article 5 of the Protocol states that "the dumping into the Mediterranean Sea Area of wastes or other matter listed in Annex II to this Protocol requires, in each case, a prior special permit from the competent national authorities".
  7. Permits to which Article 5 refers that have been issued between 12 February 1978 and 31 July 1983 by the Contracting Parties are listed in Tables 1 and 2.
  8. Article 6 of the Protocol states that "the dumping into the Mediterranean Sea Area of all other wastes or other matter requires a prior general permit from the competent national authorities".
  9. The permits to which Article 6 refers that have been issued between 12 February 1978 and 31 July 1983 by the Contracting Parties are listed in Table 3.
  10. The total amounts of waste authorized for dumping under special and general permits are given in Table 4.
- B. Report on the actual amounts of waste reported as dumped in the Mediterranean Sea Area on the basis of permits issued in accordance with Articles 5, 6 and 7
11. Reports on actual dumpings of waste or other matter carried out under special permits between 12 February 1978 and 31 July 1983, received from the Contracting Parties, are listed in Table 5.
  12. Reports on actual dumpings of waste or other matter carried out under general permits, between 12 February 1978 and 31 July 1983, received from the Contracting Parties, are listed in Table 6.
- C. Report on dumping in accordance with Article 8
13. Article 8 of the Protocol states that "The provisions of Articles 4, 5 and 6 shall not apply in case of force majeure due to stress of weather or any other cause when human life or the safety of a ship or aircraft is threatened. Such dumping shall immediately be reported to the Organization and, either through the Organization or directly, to any Party or Parties likely to be affected, together with full details of the circumstances and of the nature and quantities of the wastes or other matter dumped".

14. Reports on operations carried out under the provisions of Article 8 have been received from three Contracting Parties:

France: Sinking of the tanker "Cavo Cambanos" loaded with 18,000 tm of naphtha and propulsion fuel. The operation took place on 5 July 1981 at a depth of 2,700 m and coordinates of 41°12'N 07°09'E, and was reported on 17 July 1981 by the Government of France. Information relative to the circumstances and to the nature and quantities of the wastes or other matter dumped were provided to the secretariat as well as a full report on the surveillance of the dumping site after the dumping. The information received by the secretariat was sufficient to justify the application of Article 8. The secretariat informed, by a letter of 4 August 1981, the Contracting Parties about the event.

Spain: Sinking of the cargo "Lisa O" loaded with 80-100 tm of explosives, 23 tm of sodium hydrosulphite, about 10 tm of hydrogen peroxide and the remaining of 165 tm general cargo. The operation took place 1 October 1981 at coordinates 39°43.5'N 04°58.2'E and was reported, on request of the secretariat, by Spanish authorities on 10 December 1981. The information received by the secretariat was sufficient to justify the application of Article 8. Additional information on the chemical characteristics of the explosives, on the characteristics of the dumping site, as well as on any surveillance which could be undertaken after the dumping was requested by the secretariat on 6 January 1982 from the Government of Spain. No reply was received to this request.

Tunisia: Grounding on the Tunisian coast of a cargo loaded with 15,000 tm of flour was reported by the Tunisian Ministry of Agriculture on 13 May 1983. Permission was requested to dump the cargo. Information was provided on 17 May 1983 to the Tunisian Ministry of Agriculture by the secretariat on legal issues, as well as on the eventual effects on the environment. No further information has been received.

Grounding of the cargo "Siglo" loaded with 602 tm of kaoline, 92 tm of iron pieces, 3.5 tm of metalware, 2.5 tm of PVC ropes and 6-7 tm of gas oil was reported by the Tunisian authorities on 16 June 1983. Intention to sink the ship in deeper waters was expressed by the Tunisian authorities. The secretariat informed the Tunisian authorities on 16 June 1983 of the various legal issues covered by the protocol on dumping. No further information has been received.

D. Report on consultations in accordance with Article 9

15. Article 9 of the Protocol states that "If a Party in a critical situation of an exceptional nature considers that wastes or other matter listed in Annex I to this Protocol cannot be disposed of on land without unacceptable danger or damage, above all for the safety of human life, the Party concerned shall forthwith consult the Organization. The Organization, after consulting the Parties to this Protocol, shall recommend methods of storage or the most satisfactory means of destruction or disposal under the prevailing circumstances. The party shall inform the Organization of the steps adopted in pursuance of these recommendations. The Parties pledge themselves to assist one another in such situations".
16. No Contracting Party has approached the secretariat with problems related to Article 9.

E. Review of the implementation of the Protocol and the efficacy of the measures adopted

17. There have been no reports on dumping of wastes or other matter listed in Annex I to the Protocol between 12 February 1978 and 31 February 1983.
18. The majority of the Contracting Parties failed to inform the secretariat about their competent authorities expected to be designated in accordance with Article 10. This caused difficulties for the secretariat in communication and resulted, in general, in poor quality of information contained in this document.
19. The request of the secretariat for the submission of national annual reports (see paragraph 21(a)) on actual dumping carried out by the Contracting Parties has been answered only by a few States. Therefore, the information on the amounts of waste actually dumped into the Mediterranean Sea (Table 7) should be considered as inadequate and most probably under-estimated.
20. Only three Contracting Parties have informed the secretariat about measures taken in the implementation of the Protocol:

France: According to the 1976 French law relative to dumping operations and its application decree of 1982, all dumping operations carried out in French jurisdictional waters or embarked in a French harbour, or loaded on board a French vessel, must have a permit issued by the French authorities with respect to the applicable international conventions.

EEC: No permit is ever issued by the Community, as such.

Monaco: Dumping has neither been authorized or requested.

Libyan Arab Jamahiriya: National legislation developed recently. It forbids dumping in territorial waters, except in cases of emergency.

21. The following measures have been taken by the secretariat:

- (a) Convening of the Meeting of Experts on the Protocol for the Prevention of Pollution of the Mediterranean Sea by Dumping from Ships and Aircraft, (Geneva, 2-6 July 1979). The meeting prepared forms for reporting special and general permits and for annual reports concerning actual dumping carried out by the Parties to the Protocol. It also discussed the text concerning the application of Article 9 of the Protocol, and proposed a provisional prior consultation procedure. The report of the meeting (UNEP/28/3) was brought to the attention of the second meeting of the Contracting Parties (Cannes, 2-7 March 1982), which adopted the proposed reporting forms and procedures, (Annexes I and II).
- (b) Co-operation in the convening of the IAEA/IMO Technical Committee Meeting on Methodologies for Assessment of Sea Dumping of Radioactive Wastes (Vienna, 30 August - 3 September 1982).

(e) Co-operation with the International Maritime Organization and with the Oslo Commission and other regional organization. In particular, the secretariat received information from the secretariat of the Oslo Commission about the possible dumping in the Mediterranean Sea Area of approximately 10,000 tm of acetic acid contaminated by sea-water on board the tanker "Thoralbe". The Contracting Parties were informed of the eventuality by letter of 10 March 1982. After consultation with the firm responsible for the cargo it was made clear that the complete cargo was unloaded in a Mediterranean port.

F. Recommendations

22. All Contracting Parties should designate without delay the national authorities according to Article 10.
23. Issuance of special permits according to Article 5 should be reported to the secretariat within 2 weeks of their issuance.
24. Issuance of general permits according to Article 6 should be reported to the secretariat once a year; by the end of February.
25. The annual reports on the actual amounts of waste dumped according to Articles 5 and 6 should reach the secretariat by the end of February, covering the 12 months of the preceding calendar year. These reports should be comprehensive of all dumping activities, whether or not they were carried out under specific or general permits, in order to allow the secretariat to assess the pollutant load reaching the Mediterranean Sea through dumping, as well as the efficiency of control measures taken.
26. The dumping carried out in accordance with Article 8 should be reported to the secretariat within one month of the dumping.
27. In view of the diversity of languages used by the national authorities in their correspondence with the secretariat, the secretariat would appreciate receiving their information in one of the working languages of the secretariat (English or French) and in accordance with the formats approved by the Contracting Parties, (Annexes I and II).
28. The members of the Working Group should provide their assistance to the secretariat in updating this report, in particular, in States where no national authorities have been designated according to Article 10. This will allow the secretariat to prepare a more substantive report to the forthcoming meeting of the Contracting Parties (April 1984) on the implementation of the Protocol.



Table 1: Number of special permits reported to the secretariat as issued  
in accordance with Article 5 of the Protocol  
(1978-1983)

State	Industrial waste	Sewage sludge	Dredge spoil	Other
ALGERIA	-	-	-	-
CYPRUS	-	-	-	-
EEC	none	none	none	none
EGYPT	-	-	-	-
FRANCE	none	none	none	none
GREECE	-	-	-	-
ITALY	2	-	-	-
LEBANON	-	-	-	-
LIBYAN ARAB JAMAHIRIYA	-	-	-	-
MALTA	-	-	-	-
MONACO	none	none	none	none
MOROCCO	-	-	-	-
SPAIN	-	-	-	-
SYRIA	-	-	-	-
TUNISIA	-	-	-	-
TURKEY	-	-	-	-
YUGOSLAVIA	none	none	none	none

- = Issuance of special permits not reported to the secretariat

Table 2: Special permits issued in accordance with Article 5 of the Protocol (See Table 1)

State	Type of waste	Annex II substances	Amount (metric tonnes)	Period of validity	Co-ordinates	Distance from the nearest land and depth at dumping site	Monitoring mandatory
ITALY (D. XVII Prot. No:5176043) Cap. Porto Livorno 26/6/81	Industrial waste	Heavy metals (Pb, Cu, Zn, Cr Ni, V, Se and traces of Cd, Hg)	Max. 1.5 million	18 months	A) 43°29'N 09°12'E B) 43°39'N 09°20'E C) 43°29'N 09°08'E D) 43°31'N 09°03'E	30 nm 1000-1700 m	No
ITALY (D. XVII Prot. No:5176714) Cap. Porto Venezia 16/6/82	Industrial waste	Fluorides	Max. 1.536 million	18 months	A) 45°14'00"N 12°53'30"E B) 45°13'15"N 12°55'20"E C) 45°11'15"N 12°53'15"E D) 45°12'10"N 12°51'30"E		Yes

Table 3: Number of general permits reported to the secretariat as issued  
in accordance with Article 6 of the Protocol  
(1978-1983)

State	Industrial waste	Sewage sludge	Dredge spoil	Other
ALGERIA	-	-	-	-
CYPRUS	-	-	-	-
EEC	none	none	none	none
EGYPT	-	-	-	-
FRANCE	none	none	none	none
GREECE	-	-	-	-
ITALY	-	-	-	-
LEBANON	-	-	-	-
LIBYAN ARAB JAMAHIRIYA	-	-	-	-
MALTA	-	-	-	-
MONACO	none	none	none	none
MOROCCO	-	-	-	-
SPAIN	-	-	-	-
SYRIA	-	-	-	-
TUNISIA	-	-	-	-
TURKEY	-	-	-	-
YUGOSLAVIA	none	none	none	none

- = Issuance of general permits not reported to the secretariat

Table 4: Amounts of waste (in millions of metric tonnes) reported to the secretariat as authorized for dumping during 1978-1983 into the Mediterranean Sea in accordance with Articles 5 and 6 of the Protocol

State	Industrial waste					Sewage sludge					Dredge spoils					Other								
	78	79	80	81	82	83	78	79	80	81	82	83	78	79	80	81	82	83	78	79	80	81	82	83
ALGERIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CYPRUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EEC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EGYPT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRANCE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GREECE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ITALY	-	-	-	0.33	1.17	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LEBANON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LIBYAN ARAB JAMAHIRIYA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MALTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MONACO	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MOROCCO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPAIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SYRIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TUNISIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TURKEY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YUGOSLAVIA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

- = No report received by the secretariat

NA = Report received by the secretariat stating that no dumping of waste authorized

Table 5: Number of reports received by the secretariat on dumping under special permits in accordance with Article 5 of the Protocol (1978-1983)

State	Industrial waste	Sewage sludge	Dredge spoil	Other
ALGERIA	-	-	-	-
CYPRUS	-	-	-	-
EEC	ND	ND	ND	ND
EGYPT	-	-	-	-
FRANCE	ND	ND	ND	ND
GREECE	-	-	-	-
ITALY	-	-	-	-
LEBANON	-	-	-	-
LIBYAN ARAB JAMAHIRIYA	-	-	-	-
MALTA	-	-	-	-
MONACO	ND	ND	ND	ND
MOROCCO	-	-	-	-
SPAIN	-	-	-	-
SYRIA	-	-	-	-
TUNISIA	-	-	-	-
TURKEY	-	-	-	-
YUGOSLAVIA	ND	ND	ND	ND

- = No report on dumping received by the secretariat

ND = Report received by the secretariat stating that no dumping was carried out under permit

Table 6: Number of reports received by the secretariat on dumping under general permits in accordance with Article 6 of the Protocol (1978-1983)

State	Industrial waste	Sewage sludge	Dredge spoil	Other
ALGERIA	-	-	-	-
CYPRUS	-	-	-	-
EEC	ND	ND	ND	ND
EGYPT	-	-	-	-
FRANCE	ND	ND	ND	ND
GREECE	-	-	-	-
ITALY	-	-	16	-
LEBANON	-	-	-	-
LIBYAN ARAB JAMAHIRIYA	-	-	-	-
MALTA	-	-	-	-
MONACO	ND	ND	ND	ND
MOROCCO	-	-	-	-
SPAIN	-	-	-	-
SYRIA	-	-	-	-
TUNISIA	-	-	-	-
TURKEY	-	-	-	-
YUGOSLAVIA	ND	ND	ND	ND

- = No report on dumping received by the secretariat

ND = Report received by the secretariat stating that no dumping was carried out under permit

Table 7: Amounts of waste reported to the secretariat as annually dumped into the Mediterranean Sea Area between 1978 and 1983 (in thousands of metric tonnes).

State	Industrial waste				Sewage sludge				Dredge spoils				Other					
	78	79	80	81	82	83	78	79	80	81	82	83	78	79	80	81	82	83
ALGERIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CYPRUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EEC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EGYPT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRANCE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18	ND	ND
GREECE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ITALY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ISRAEL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LEBANON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LIBYAN ARAB JAMAHIRIYA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MALTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MONACO	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MOROCCO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPAIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SYRIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TUNISIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TURKEY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YUGOSLAVIA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

1/ In thousands of cubic metres.  
Partly dumped during 1980

- = No report on dumping received by the secretariat

ND = Report received by the secretariat stating that no dumping was carried out

ANNEX I

Form of report for special and general permits

(Application of Articles 5 and 6 of the Protocol for the Prevention of pollution of the Mediterranean Sea by Dumping from Ships and Aircraft)

1. Special permits issued in accordance with Article 5 of the Protocol concerning dumping by ships and aircraft of the Barcelona Convention should be notified immediately to the Organization. General permits issued in accordance with Article 6 of the Protocol should be reported annually to the Organization.
  
2. The notification should contain the following information, for each special and general permit or approval (unless in any individual case a particular item of information is clearly inappropriate):
  - (a) Issuing authority: .....
  - (b) Date issued: .....
  - (c) Country of origin of wastes or other matter and port of loading: .....
  - (d) General description of waste or other matter and the process from which the waste is derived: .....  
.....  
.....
  - (e) Form in which waste or other matter is presented for disposal (i.e. solid, liquid or sludge): .....
  - (f) Total quantity (in metric units) of waste or other matter covered by the permit: .....
  - (g) Period for which permit is valid: .....
  - (h) Expected frequency of dumping: .....
  - (i) Chemical composition of waste or other matter (this should be sufficiently detailed to provide adequate information to other countries on the nature and composition): .....  
.....  
.....  
.....



(j) Properties of waste or other matter:

(i) solubility: .....

(ii) density: .....

(iii) pH: .....

(k) Method of packaging:.....

(l) Method of release: .....

(m) Procedure and site for subsequent tank washing: .....

(n) Approved dumping site:

(i) geographical position (latitude and longitude): .....

(ii) depth of water: .....

(iii) distance from the nearest coast: .....

(o) Additional information (relevant factors listed in Annex III of the Protocol, e.g. toxicity, and other biological properties):

.....  
.....  
.....  
.....  
.....

ANNEX II

Form of annual report concerning actual dumping carried out  
by the Parties to the Protocol

Annual report on all dumpings carried out during the year 19

The purpose of this form is to facilitate an assessment of the Parties' inputs by dumping in the waters of the Protocol area. The form must be completed for each calendar year in retrospect and submitted to the Organization following the year to which the dumping relates.

The Parties are reminded that the figures for the quantities of substances dumped should relate to the actual amounts dumped during the report year and not to the quantities licensed.

As far as possible, the following information should be given for each dumping area:

1. Dumping area:

(a) Location - Longitude: .....  
Latitude: .....

(b) Depth: .....metres

(c) Tidal flows: - Direction: .....  
Maximum Speed: .....

(d) Type of waste dumped (delete as appropriate):

Industrial wastes  
Sewage sludges  
Dredgings  
Others

(e) Other relevant information (e.g. residual water movements): .....  
.....

2. Industrial wastes dumped:

Details need only be given for the categories listed in Section 1(d) as having been dumped during the reporting year.

Units of quantity should be in tonnes unless otherwise stated:

- (a) Year of issue of the permits concerned: .....
- (b) General description of these wastes: .....  
.....
- (c) Method of dumping (when more than one vessel is involved, give the range of loads and discharge conditions):
  - (i) Vessel(s) load: .....
  - (ii) Manner of discharge from vessel: .....
  - (iii) Rate of discharge: .....
  - (iv) Speed of vessel while dumping: .....
- (d) Total quantity of wastes actually dumped: .....
- (e) Total quantity of wastes licensed: .....
- (f) Total quantity of insoluble solids: .....
- (g) Total quantity of particulate organic components: .....
- (h) Total quantity of trace contaminants of Annex I substances:
  - Mercury : .....
  - Cadmium : .....
  - Organohalogen compounds: .....(specify)
  - Others : .....

(i) Total quantity of the following metals:

Arsenic: .....	Nickel: .....
Chromium: .....	Zinc: .....
Copper: .....	Others: .....
Lead: .....	

(j) Any other compounds present in appreciable quantity:

.....

(k) Total quantity of strong acids: .....

strength/pH: .....

(l) Total quantity of strong alkalis: .....

strength/pH: .....

(m) Toxicity of waste(s) - Give IC-50 values and names of species tested  
(where more than one waste is involved give toxicity criteria e.g.  
96-h-LC-50 values not below 1000 ppm to Crangon crangon or Agonus  
cataphractus):

.....  
.....

(n) Monitoring authority: .....

(o) Other relevant information: .....

.....

3. Sewage sludges dumped in each site:

Details need only be given for the categories listed in section 1(d) as having been dumped during the reporting year.

Units of quantity should be in tonnes unless otherwise stated.

(a) Year of issue of the permits concerned: .....

(b) Place of origin of the sewage sludge: .....

(c) Method of dumping (where more than one vessel is involved, give the range of loads and discharge conditions):

(i) Vessel(s) load: .....

(ii) Manner of discharge from vessel: .....

(iii) Rate of discharge: .....

(iv) Speed of vessel while discharging: .....

(d) Total quantity actually dumped: .....

(e) Total quantity licensed: .....

(f) Total quantity of insoluble solids: .....

(g) Total quantity of particulate organic compounds: .....

(h) Total quantity of trace contaminants of Annex I substances:

Mercury: .....

Cadmium: .....

Organohalogen compounds: .....(specify)

Others: .....

(i) Total quantity of the following metals:

Arsenic: ..... Nickel: .....

Chromium: ..... Zinc: .....

Copper: ..... Others: .....

Lead: .....

(j) Monitoring authority: .....

4. Dredgings dumped in each site:

Details need only be given for the categories listed in section 1(d) as having been dumped during the reporting year.

Units of quantity should be in tonnes unless otherwise stated.

When less than 10,000 tonnes per year are dumped, chemical analysis of dredgings composition are not required unless the source of the dredgings is believed to be polluted.

- (a) Year of issue of the permits concerned: .....
- (b) Place of origin of the dredgings: .....
- (c) Method of dumping: Stationary/Moving (delete as appropriate)
- (d) Total quantity actually dumped: .....
- (e) Total quantity licensed: .....
- (f) Total quantity of insoluble solids: .....
- (g) Total quantity of particulate  
organic components: .....
- (h) Total quantity of trace contaminants of Annex I substances:
  - Mercury: .....
  - Cadmium: .....
  - Organohalogen compounds: .....(specify)
  - Others: .....
- (i) Total quantity of the following metals:
  - Arsenic: ..... Nickel: .....
  - Chromium: ..... Zinc: .....
  - Copper: ..... Others: .....
  - Lead: .....
- (j) Monitoring authority: .....