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Regional Meeting on IMAP Implementation: Best Practices, Gaps and Common Challenges

Rome, Italy, 10-12 July 2018

Agenda item 4: Proposed IMAP Common Indicators Data Standards and Data Dictionaries

Meta Data Templates for Pollution and Marine Litter IMAP Indicators approved by the MEDPOL Focal Point Meeting, Rome, Italy, May 2017

Appendix 9

Meta Data Templates for Pollution and Marine Litter IMAP Indicators

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1. Pollution revised meta-data and data templates

1. The MED POL excel database reporting formats have not been revised since 2002. The proposal is for a simple revision of the guidelines (see Annex 1) revision and update of the data reporting format guidelines and the associated Excel file templates. Both the data formats and Excel templates have been revised and updated when necessary without modifying the reporting structure of the Excel sheets but adding two more sheets (3 in total) to provide more flexibility in terms of reporting for Contracting Parties (CPs) of the Barcelona Convention. Therefore, this new Excel template versions to include designed space for CPs to report on additional associated information ("metadata") under the MED POL monitoring activities, as the needs and requirements of the monitoring have changed overtime.

2. To summarize, the major categories of checks and changes are listed below:
    a. Parameter units and format revisions and verifications, including geographical coordinates
    b. Clarification on Mandatory and Additional parameter requirements by matrix type
    c. Inclusion of relevant or missing parameters (mainly in the sediment reporting templates), including mismatches between guidelines and templates.
    d. In depth revision of the CRM template to report the quality assurance data.

3. This document with the corresponding Excel files should serve to clarify the reporting obligations of the Contracting Parties with regard to the monitoring activities within the MED POL Programme. As mentioned, it gives also an opportunity to the CPs to contribute by including additional data from monitoring (metadata) or relevant new information as they deem appropriate. Therefore, this will be a starting point for the future amendments and revisions to the UNEP/MAP Databases, in line with the Integrated Monitoring and Assessment Programme (IMAP).

4. Table 1 compares the IMAP Indicators with the current reporting templates for EO 5 (Eutrophication) and EO 9 (Contaminants). As can be seen the two indicators on eutrophication are reported currently in Table 1, 2, 3, 4 and 6 on trace metals and organics in biota, sediments and water. Common Indicator 18 is addressed partially in Table 5 on bio-effects and Indicators 19, 20 and 21 require new reporting templates to be developed in 2018-2019.

5. Further work will be required to develop revised and new reporting formats in line with IMAP indicators in 2018-2019. However, based on the review of existing Phase IV MEDPOL reporting templates revised in Annex 1 and the IMAP Guidance Factsheets (UNEP(DEPI)/MED WG. WG.439/12), it is recommended that the following revisions are considered by the MEDPOL Focal Points, and are highlighted in Annex 1:
    i. For metals in biota (Table 1) Cd, Cu, Pb, are reported as mandatory rather than as additional;
    ii. For organic contaminants in biota (Table 2), PAH and HH[46](PCBs, Hexachlorobenzene, Lindane and DDTs), analysis date, method(s) and concentrations are reported as mandatory rather than as additional;
    iii. For trace metals in sediments (Table 3), Cu, Pb along with information on the analysis date and methods are reported as mandatory rather than additional
    iv. For organic contaminants in sediments (Table 4) PAH and HH analysis date, method(s) and concentrations are reported as mandatory rather than as additional;
    v. For sea water data reporting (Table 6), that all fields related to sample ID, station, year, country date time, location etc., as well as chlorophyll-a and nutrient fields are reported as mandatory rather than as additional;

Table 1. Comparison of IMAP Indicators with the MEDPOL Reporting formats

[46] Halogenated Hydrocarbons

IMAP Indicators	**MEDPOL templates based on MEDPOL Phase IV (Annex 1)**
Common Indicator 17: Concentration of key harmful contaminants measured in the relevant matrix (EO9, related to biota, sediment, seawater) Common Indicator 13: Concentration of key nutrients in water column (EO5); Common Indicator 14: Chlorophyll-a concentration in water column (EO5)	Table 1. Biota / trace metals data reporting format
	Table 2. Biota / organic contaminants data reporting format
	Table 3. Sediment / trace metals data reporting format
	Table 4. Sediment / organic contaminants data reporting format
	Table 6. Seawater data reporting format
Common Indicator 18: Level of pollution effects of key contaminants where a cause and effect relationship has been established (EO9)	Table 5. Bio-effects data reporting format. *Note needs revision to be further aligned in 2018-2019*
Common Indicator 19: Occurrence, origin (where possible), extent of acute pollution events (e.g. slicks from oil, oil products and hazardous substances), and their impact on biota affected by this pollution (EO9);	*Note: Contracting Parties report to REMPEC, and with the adoption of the Offshore Action Plan in 2016, work is currently underway to further elaborate an offshore monitoring program*
Common Indicator 20: Actual levels of contaminants that have been detected and number of contaminants which have exceeded maximum regulatory levels in commonly consumed seafood (EO9);	*Note: Currently no reporting format and suggests to be developed I 2018-2019*
Common Indicator 21: Percentage of intestinal enterococci concentration measurements within established standards (EO9)	Some bathing water quality data submitted to MEDPOL based on basic template. *Note: Further revision and development to be developed in 2018-2019 in line with WHO guidelines*
Not in IMAP but to remain as integral part of MEDPOL monitoring programme	Table 7. Atmospheric dry deposition data reporting format
	Table 8. Atmospheric wet deposition data reporting format
Overall for all data	Table 9. Certified reference material (CRM) / quality control data

2. Marine Litter Meta Data Templates

6. In order to implement the IMAP Decision in terms of marine litter data reporting, a common approach to the collection and reporting of quality assured data is required. The past year several attempts have been done by projects and initiatives to develop corresponding marine litter databases. The IPA-Adriatic DeFishGear47 project, the European Environment Agency (EEA) Marine LitterWatch48 (MLW) smartphone application, the FP7 MARLISCO project49, and the International Bottom Trawl Surveys in the Mediterranean (MEDITS)50 project are some of the examples of the developed databases and information systems on marine litter. The OSPAR Commission for protecting and conserving the North-East Atlantic and its recourses, has developed a good example of a regional database on beach marine litter51. The OSPAR beach litter database stores marine litter data collected on references beaches using the standardized OSPAR beach litter monitoring guidelines. The online

[47]http://defishgear.izvrs.si/PassAuth/AutoAuth.aspx?ReturnUrl=/defishgear
[48]http://www.eea.europa.eu/themes/coast_sea/marine-litterwatch/data-and-results/marine-litterwatch-data-viewer-1
[49]http://www.marlisco.eu/marine-litter-database.el.html
[50] http://www.sibm.it/MEDITS%202011/docs/Medits_Handbook_2016_version_8_042016.pdf
[51] http://www.mcsuk.org/ospar/

database has been developed to manage that data and allow it to be interrogated at the regional, sub-regional and beach level.

7. The Meeting of the Ecosystem Approach Correspondence Group (CORMON) on Marine Litter Monitoring held in Madrid, Spain, 28 February – 2 March 2017 reviewed a proposal by MED POL on the main elements to build data and metadata reporting on Marine Litter in the Mediterranean. It was agreed that further work was needed to develop a proposal of data and meta-data and that those members of the Marine Litter online working group present (France, Spain and Italy) would lead in the development of a proposal for consideration by the MED POL Focal points meeting. Below are the elements presented and agreed in principle during the Marine Litter CORMON based on which France, Spain and Italy further elaborated the proposed data and meta data templates presented in Annex 2a and 2b and Annex III for the consideration of the MED POL Focal Points Meeting

A. Beach Litter

1. The Beach ID Form is proposed to include the following elements/features:

- Name of the beach;
- National beach ID;
- Country;
- Date;
- Name and contact information (phone, e-mail, etc.)
- Beach width (m);
- Total length of the beach (m);
- Back of the beach (e.g. dunes);
- GPS coordinates start 100m;
- GPS coordinates end 100m;
- Prevailing currents at the beach: N/E/S/W;
- Prevailing winds: N/E/S/W;
- Direction towards the beach is facing: N/E/S/W;
- Type of beach (e.g. pebble, sand, rocky, mixed, etc.);
- Any objects in the sea influencing the currents;
- Major beach usage (e.g. local people, swimming, sunbathing, fishing, surfing, etc.);
- Access to the beach (e.g. public transportation, private vehicle, on foot, boat, etc.);
- Nearest town;
- Distance from the nearest town;
- Developments behind the beach (Y/N);
- Specify developments;
- Food and/or drink outlets on the beach (Y/N);
- Distance of the food/drink outlets from the survey areas (m/km);
- Period over the year where the food/drinks are open (specify months);
- Distance of the beach to the nearest shipping lane (km);
- Estimated traffic density (number of ships/year);
- Distance of the beach to the nearest harbor (km);
- Is the harbor entrance facing the survey area (Y/N);
- Distance of the beach to the nearest river mouth (km);
- Name of the river;
- Distance of the beach to the nearest discharge or discharges of waste water (km);
- Beach clean-ups on the selected beach (Y/N);
- Frequency of the beach clean-ups (specify months);
- Map of the beach
- Additional comments and observations;

8. The Beach Litter Survey Form (see Annex 2b) is proposed to include the following elements/features:

- Name of the Beach;
- National beach ID;
- Country;
- Date of survey;
- Surveyor information (name, phone number, e-mail);
- Previous conducted survey (dd/mm/yy);
- Did you divert from the pre-determined 100 metres (Y/N; give new coordinates);
- Weather conditions (wind, rain, sand storm, fog, high tide, etc);
- Stranded animals (Y/N);
- Describe the stranded animal;
- Stranded animal dead or alive (D/A);
- Stranded animal entangled in litter (Y/N, specify litter item);
- Any factors influencing the survey (specify; e.g. track/vehicles on the beach, etc.);
- Any unusual marine litter items and/or marine litter loads (specify);
- Master list of categories agreed for beaches (IMAP Marine Litter Master List Categories: UNEP(DEPI)/MED IG.22/Inf.7 – Annex VII), including UNEP Code, General Name, and total number of recorded items (per category and sub-category), listed per different Material (Level 1);
- Any pellets observed (Y/N);
- Additional comments and observations.

9. It should be noted that Annex 2b contains the reduced master list of marine litter items agreed during the meeting of the Meeting of the Informal Online Working Group on Marine Litter in Athens in May 2014(UNEP(DEPI)/MED WG.417/Inf.15)

B. Seafloor Marine Litter

- Country;
- Date (dd/mm/yy);
- Surveyor information (name, phone, e-mail, etc.);
- Area (EcAp Code);
- Campaign name;
- Vessel name;
- Haul number;
- Gear (e.g. bottom trawl, etc.);
- Speed (knot);
- Opening of the net (m) (e.g. SCANMAR Trawl Sensor or SIMRAD);
- Cod-end mesh size (mm);
- Latitude (Start and End);
- Longitude (Start and End);
- Depth (Start and End);
- Haul duration (minutes);
- Distance covered (km);
- Weight (total) of litter per haul (kg);
- Weight (total) per category and sub-category (kg);
- Master list of categories agreed for seafloor (IMAP Marine Litter Master List Categories: UNEP(DEPI)/MED IG.22/Inf.7 – Annex VII), including UNEP Code, General Name, and total number of recorded items (per category and sub-category), listed per different Material (Level 1);
- Additional comments and observations (e.g. any unusual marine litter items).

Annex 1
MEDPOL Monitoring Data Reporting Guidelines and Excel

MEDPOL MONITORING DATA REPORTING GUIDELINES AND EXCEL TEMPLATES

TABLE 1. BIOTA / TRACE METALS DATA REPORTING FORMAT

	Fields	Requisite	Description	Format	Units
1	SAMPLE_ID	Mandatory	Individual sample code given to each sample by the laboratory		
2	YEAR	Mandatory	Monitoring Year	NUM (4)	
3	COUNTRY	Mandatory	Country Code (MED POL Codes)	CHAR (3)	
4	AREA	Mandatory	Area Code	CHAR (6)	
5	STATION	Mandatory	Station Code	CHAR (6)	
6	STATION_TYPE	Mandatory	for Hot Spots (H), Coastal (C), Reference (R)	CHAR (2)	
7	SAMP_DATE	Mandatory	Date of Sampling (dd/mm/yy)	DATE	
8	LON_DEG	Mandatory	Longitude in degrees	NUM (2)	Degree
9	LON_MIN	Mandatory	Longitude minute, seconds (In case of GPS application use this field for minutes and seconds in decimals, otherwise use only for minutes)	NUM (5,2)	Minute
10	LON_SEC	Mandatory	Longitude seconds (Use this field only when GPS is not used for positioning)	NUM (2)	Second
11	LON_HEMIS	Mandatory	Longitude hemisphere (codes: W=west, E=east)	CHAR (1)	
12	LAT_DEG	Mandatory	Latitude degree	NUM (2)	Degree
13	LAT_MIN	Mandatory	Latitude minute, seconds (In case of GPS application use this field for minutes and seconds in decimals, otherwise use only for minutes)	NUM (2,2)	Minute
14	LAT_SEC	Mandatory	Latitude seconds (Use this field only when GPS is not used for positioning)	NUM (2)	Second
15	BOT_DEPTH	Mandatory	Bottom depth of the sampling station	NUM (5,1)	meters
16	SAM_DEPTH	Mandatory	Sampling depth	NUM (5,1)	meters
17	SAM_TEMP	Mandatory	Temperature at the sampling station and depth	NUM (5,2)	ºC
18	SAM_SALIN	Mandatory	Salinity at the sampling station and depth (indicate exact unit)	NUM (5,2)	mS
19	SAM_DO	Additional	Dissolved oxygen at the sampling station and depth	NUM (5,2)	mg/L
20	SPECY	Mandatory	Selected Specie for analysis (MED POL codes)	CHAR (2)	
21	TISSUE	Mandatory	Selected Tissue for analysis (MED POL codes)	CHAR (2)	
22	SAM_NO	Mandatory	Sample no. (1,n) (“n” as used in trend objectives of the programme)	NUM (2)	
23	NS	Mandatory	Number of specimens (=number of pooled organisms in a sample)	NUM (2)	
24	LENGTH_AVG	Mandatory	Average length of specimens in a pool (Important: Use “fork length” for fish and “shell length” for mussels)	NUM (7,2)	cm
25	LENGTH_STD	Mandatory	Standard deviation of average length of specimens in a pool	NUM (6,2)	cm
26	LENGTH_UNIT	Mandatory	Unit given for length of organisms	CHAR (5)	“cm”
27	WEIGHT_AVG	Mandatory	Average weight of specimens in a pool	NUM (8,1)	g
28	WEIGHT_STD	Mandatory	Standard deviation of average weight of specimens in a pool	NUM (7,1)	g
29	WEIGHT_UNIT	Mandatory	Unit given for weight of organisms	CHAR (5)	“g”
30	EOM	Additional	Extractable Organic Matter	NUM (5,2)	mg/g
31	EOM_UNIT	Additional	Extractable Organic Matter	CHAR (5)	“mg/g”
32	DW / FW	Additional	Ratio of dry weight to fresh weight (dried to constant temperature)	NUM (5,2)	
33	INST_CODE_TM	Mandatory	Trace Metal Institude code (Country code+institute no. given in the MEDPOL Phase III Agreement)	CHAR(5)	

	Fields	Requisite	Description	Format	Units
34	ANALY_DATE_TM	Mandatory	TM Analysis Date (day/mn/yr)	DATE	
35	ANALY_METH_TM	Mandatory	TM Analysis method (MED POL codes)	CHAR (5)	
36	FW_DW	Mandatory	Mention if concentrations are based on fresh or dry weight (code as "**F**" for fresh weight and "**D**" for dry weight	CHAR (1)	
37	AS_CONC	Additional	Arsenic concentration	NUM (7,3)	µg/kg
38	AS_BDL	Additional	enter **BDL** if As conc. is below detection limit or level of determination	CHAR (3)	
39	AS_DL	Additional	Detection limit value	NUM (7,3)	µg/kg
40	AS_UNIT	Additional	Unit for As_conc	CHAR (5)	
41	CD_CONC	Mandatory	Cadmium Concentration	NUM (7,3)	µg/kg
42	CD_BDL	Mandatory	Enter BDL if Cd conc. is below detection limit or level of determination	CHAR (3)	
43	CD_DL	Mandatory	Detection limit value	NUM (7,3)	µg/kg
44	CD_UNIT	Mandatory	Unit for Cd_conc	CHAR (5)	
45	CR_CONC	Additional	Chromium Concentration	NUM (7,3)	µg/kg
46	CR_BDL	Additional	enter BDL if Cr conc. Is below detection limit or level of determination	CHAR (3)	
47	CR_DL	Additional	Detection limit value	NUM (7,3)	µg/kg
48	CR_UNIT	Additional	Unit for Cr_conc	CHAR (5)	
49	CU_CONC	Mandatory	Cupper concentration	NUM (7,3)	µg/kg
50	CU_BDL	Mandatory	Enter BDL if Cu conc. Is below the detection limit or level of determination	CHAR (3)	
51	CU_DL	Mandatory	Detection limit value	NUM (7,3)	µg/kg
52	CU_UNIT	Mandatory	Unit for Cu_conc	CHAR (5)	
53	HGT_CONC	Mandatory	Total Hg concentration	NUM (7,3)	µg/kg
54	HGT_BDL	Mandatory	enter BDL if HgT conc. is below detection limit or level of determination	CHAR (3)	
55	HGT_DL	Mandatory	Detection limit value	NUM (7,3)	µg/kg
56	HGT_UNIT	Mandatory	Unit for Hgt_conc	CHAR (5)	
57	PB_CONC	Mandatory	Lead Concentration	NUM (7,3)	µg/kg
58	PB_BDL	Mandatory	enter BDL if Pb conc. Is below detection limit or level of determination	CHAR (2)	
59	PB_DL	Mandatory	Detection limit value	NUM (7,3)	µg/kg
60	PB_UNIT	Mandatory	Unit for Pb_conc	CHAR (5)	
61	ZN_CONC	Additional	Zinc concentration	NUM (7,3)	µg/kg
62	ZN_BDL	Additional	Enter **BDL** if Zn conc. Is below the detection limit or level of determination	CHAR (3)	
63	ZN_DL	Additional	Detection limit value	NUM (7,3)	µg/kg
64	ZN_UNIT	Additional	Unit for Zn_conc	CHAR (5)	
	Other Trace Metals	**Additional**	**to be included by the laboratories depending on the country agreements**		

TABLE 2. BIOTA / ORGANIC CONTAMINANTS DATA REPORTING FORMAT

	Fields	Requisit	Description	Format	Units
1	SAMPLE_ID	Mandatory	Individual sample code given to each sample by the laboratory		
2	YEAR	Mandatory	Monitoring Year	NUM (4)	
3	COUNTRY	Mandatory	Country Code (MED POL Codes)	CHAR (3)	
4	AREA	Mandatory	Area Code	CHAR (6)	
5	STATION	Mandatory	Station Code	CHAR (6)	
6	STATION_TYPE	Mandatory	for Hot Spots (H), Coastal (C), Reference (R)	CHAR (2)	
7	SAMP_DATE	Mandatory	Date of Sampling (day/mn/yr)	DATE	
8	LON_DEG	Mandatory	Longitude in degrees	NUM (2)	Degree
9	LON_MIN	Mandatory	Longitude minute, seconds (In case of GPS application use this field for minutes and seconds in decimals, otherwise use only for minutes)	NUM (5,2)	Minute
10	LON_SEC	Mandatory	Longitude seconds (Use this field only when GPS is not used for positioning)	NUM (2)	Second
11	LON_HEMIS	Mandatory	Longitude hemisphere (codes: W=west, E=east)	CHAR (1)	
12	LAT_DEG	Mandatory	Latitude degree	NUM (2)	Degree
13	LAT_MIN	Mandatory	Latitude minute, seconds (In case of GPS application use this field for minutes and seconds in decimals, otherwise use only for minutes)	NUM (5,2)	Minute
14	LAT_SEC	Mandatory	Latitude seconds (Use this field only when GPS is not used for positioning)	NUM (2)	Second
15	BOT_DEPTH	Mandatory	Bottom depth of the sampling station	NUM (5,1)	meters
16	SAM_DEPTH	Mandatory	Sampling depth	NUM (5,1)	meters
17	SAM_TEMP	Mandatory	Temperature at the sampling station and depth	NUM (5,2)	ºC
18	SAM_SALIN	Mandatory	Salinity at the sampling station and depth	NUM (5,2)	mS
19	SAM_DO	Additional	Dissolved oxygen at the sampling station and depth	NUM (5,2)	mg/L
20	SPECY	Mandatory	Selected Specie for analysis (MED POL codes)	CHAR (2)	
21	TISSUE	Mandatory	Selected Tissue for analysis (MED POL codes)	CHAR (2)	
22	SAM_NO	Mandatory	Sample no. (1,.n) (“n”as used in trend objectives of the programme)	NUM (2)	
23	NS	Mandatory	Number of specimens (=num.Of pooled organisms in a sample)	NUM (2)	
24	LENGTH_AVG	Mandatory	Average length of specimens in a pool (Important: Use “fork length” for fish and “shell length” for mussels)	NUM (7,2)	cm
25	LENGTH_STD	Mandatory	Standard deviation of average length of specimens in a pool	NUM (6,2)	cm
26	LENGTH_UNIT	Mandatory	Unit given for length of organisms	CHAR (5)	“cm”
27	WEIGHT_AVG	Mandatory	Average weight of specimens in a pool	NUM (8,1)	g
28	WEIGHT_STD	Mandatory	Standard deviation of average weight of specimens in a pool	NUM (7,1)	g
29	WEIGHT_UNIT	Mandatory	Unit given for weight of organisms	CHAR (5)	“g”
30	EOM	Mandatory	Extractable Organic Matter	NUM (5,2)	mg/g
31	EOM_UNIT	Additional	Extractable Organic Matter	CHAR (5)	“mg/g”
32	DW / FW	Mandatory	Ratio of dry weight to fresh weight (dried to constant temperature)	NUM (5,2)	“mg/g”
33	INST_CODE_OC	Mandatory	Institude code for organic contaminant analysis (Country code+institute no. given in the MEDPOL Phase III Agreement)	CHAR(5)	
34	FW_DW	Mandatory	Mention if concentrations are based on fresh or dry weight (code as “**F**” for fresh weight and “**D**” for dry weight	CHAR (1)	
35	ANALY_DATE_PAH	Mandatory	Analysis Date (day/mn/yr)	DATE	

	Fields	Requisit	Description	Format	Units
36	ANALY_METH_PAH	Mandatory	Analysis method(s) for PAH (MED POL codes)	CHAR (5)	
37	PAH_CONC	Mandatory	PAH+ concentration	NUM (7,3)	µg/g
38	PAH_BDL	Mandatory	enter BDL if PAH conc. is below detection limit or level of determination	CHAR (3)	
39	PAH_DL	Mandatory	Detection limit value	NUM (7,3)	µg/kg
40	PAH_UNIT	Mandatory	Unit for PAH_conc	CHAR (5)	
41	ANALY_DATE_HH	Mandatory	Analysis Date (day/mn/yr)	DATE	
42	ANALY_METH_HH	Mandatory	Analysis method(s) for halogenated hydrocarbons (MED POL codes)	CHAR (5)	
43	HH_CONC	Mandatory	HH+ concentration	NUM (7,3)	µg/g
44	HH_BDL	Mandatory	enter BDL if HH+ conc. is below detection limit or level of determination	CHAR (3)	
45	HH_DL	Mandatory	Detection limit value	NUM (7,3)	µg/g
46	HH_UNIT	Mandatory	Unit for HH_conc	CHAR (5)	
	Other Organics	Additional	to be included by the laboratories depending on the country agreements		

***NOTE 1: PAH compounds should include the congeners: fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo[a]anthracene, chrysene, benzo[e]pyrene, benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[a]pyrene, benzo[g,h,i]perylene, dibenzo[a,h]anthracene and indeno[1,2,3-c,d]pyrene. Therefore, rows from 37-40 should be duplicated for each individual congener determined.

***NOTE 2: HH compounds should include the following compounds: PCBs (at least congeners 28, 52, 101, 118, 138, 153, 180, 105 and 156); Hexachorobenzene, Lindane, Aldrin, Dieldrin and ΣDDTs). Therefore, rows from 43-46 should be duplicated for each compounds or congener determined within groups.

TABLE 3. SEDIMENT / TRACE METALS DATA REPORTING FORMAT

	Fields	Requisite	Description	Format	Unit
1	SAMPLE_ID	Mandatory	Individual sample code given to each sample by the laboratory		
2	YEAR	Mandatory	Monitoring Year	NUM (4)	
3	COUNTRY	Mandatory	Country Code (MED POL codes)	CHAR (3)	
4	AREA	Mandatory	Area Code	CHAR (6)	
5	STATION	Mandatory	Station Code	CHAR (6)	
6	STATION_TYPE	Mandatory	for Hot Spots (H), Coastal (C), Reference (R)	CHAR (2)	
7	SAMP_NO	Mandatory	Sample no.(1) (as used in trend objectives of the programme)	NUM (2)	
8	SAMP_DATE	Mandatory	Date of Sampling (day/mn/yr)	DATE	
9	LON_DEG	Mandatory	Longitude in degrees	NUM (2)	
10	LON_MIN	Mandatory	Longitude minute, seconds (In case of GPS application use this field for minutes and seconds in decimals, otherwise use only for minutes)	NUM (5,2)	
11	LON_SEC	Mandatory	Longitude seconds (Use this field only when GPS is not used for positioning)	NUM (2)	
12	LON_HEMIS	Mandatory	Longitude hemisphere (codes: W=west, E=east)	CHAR (1)	
13	LAT_DEG	Mandatory	Latitude degree	NUM (2)	
14	LAT_MIN	Mandatory	Latitude minute, seconds (In case of GPS application use this field for minutes and seconds in decimals, otherwise use only for minutes)	NUM (5,2)	
15	LAT_SEC	Mandatory	Latitude seconds (Use this field only when GPS is not used for positioning)	NUM (2)	
16	BOT_DEPTH	Mandatory	Bottom depth of the sampling station	NUM (5,1)	m
17	BOT_TEMP	Mandatory	Temperature value at the bottom of the sediment sampling station	NUM (5,2)	Deg C
18	BOT_SALIN	Mandatory	Salinity value at the bottom of the sediment sampling station	NUM (5,2)	
19	BOT_DO	Additional	Dissolved Oxygen value at the bottom of the sampling station	NUM (5,2)	mg/L
20	SAMP_LAYER	Mandatory	Sampling layer to be provided (e.g. 0-2 cm, 1 cm etc.)		cm
21	SAMP_FRAC	Mandatory	Sample size fraction to be provided (e.g. > 60 μm etc.)		μm
22	DW / WW	Additional	Ratio of dry weight to wet weight (dried to constant temperature)	NUM (5,2)	
23	INST_CODE_TM	Mandatory	Trace Metal Institude code (Country code+institute no. given in the MEDPOL Phase III Agreement)	CHAR(5)	
24	ANALY_DATE_TM	Mandatory	TM Analysis Date (day/mn/yr)	DATE	
25	ANALY_METH_TM	Mandatory	TM Analysis method (MED POL codes)	CHAR (5)	
26	WW_DW	Mandatory	Mention if concentrations are based on wet or dry weight (code as "**W**" for wet weight and "**D**" for dry weight	CHAR (1)	
27	AS_CONC	Additional	Arsenic concentration	NUM (7,3)	µg/kg
28	AS_BDL	Additional	enter **BDL** if As conc. Is below detection limit or level of determination	CHAR (2)	
29	AS_DL	Additional	Detection limit value	NUM (7,3)	µg/kg
30	AS_UNIT	Additional	Unit for As_conc	CHAR (5)	
31	**CD_CONC**	**Mandatory**	**Cadmium concentration**	**NUM (7,3)**	µg/kg
32	**CD_BDL**	**Mandatory**	**enter BDL if Cd conc. is below detection limit or level of determination**	**CHAR (2)**	
33	**CD_DL**	**Mandatory**	**Detection limit value**	NUM (7,3)	µg/kg
34	**CD_UNIT**	**Additional**	**Unit for Cd_conc**	**CHAR (5)**	
35	CR_CONC	Additional	Chromium Concentration	NUM (7,3)	µg/kg
36	CR_BDL	Additional	enter **BDL** if Cr conc. Is below detection limit or level of determination	CHAR (2)	

	Fields	Requisite	Description	Format	Unit
37	CR_DL	Additional	Detection limit value	NUM (7,3)	µg/kg
38	CR_UNIT	Additional	Unit for Cr_conc	CHAR (5)	
39	CU_CONC	Mandatory	Cupper concentration	NUM (7,3)	µg/kg
40	CU_BDL	Mandatory	Enter **BDL** if Cu conc. Is below the detection limit or level of determination	CHAR (2)	
41	CU_DL	Mandatory	Detection limit value	NUM (7,3)	µg/kg
42	CU_UNIT	~~Additional~~ Mandatory	Unit for Cu_conc	CHAR (5)	
43	**HGT_CONC**	**Mandatory**	**Total Hg concentration**	**NUM (7,3)**	µg/kg
44	**HGT_BDL**	**Mandatory**	**enter BDL if HgT conc. is below detection limit or level of determination**	**CHAR (2)**	
45	**HGT_DL**	**Mandatory**	**Detection limit value**	NUM (7,3)	µg/kg
46	**HGT_UNIT**	**Additional**	**Unit for HgT_conc**	**CHAR (5)**	
47	PB_CONC	Mandatory	Lead Concentration	NUM (7,3)	µg/kg
48	PB_BDL	Mandatory	enter **BDL** if Pb conc. Is below detection limit or level of determination	CHAR (2)	
49	PB_DL	Mandatory	Detection limit value	NUM (7,3)	µg/kg
50	PB_UNIT	Mandatory	Unit for Pb_conc	CHAR (5)	
51	ZN_CONC	Additional	Zinc concentration	NUM (7,3)	µg/kg
52	ZN_BDL	Additional	Enter **BDL** if Zn conc. Is below the detection limit or level of determination	CHAR (2)	
53	ZN_DL	Additional	Detection limit value	NUM (7,3)	µg/kg
54	ZN_UNIT	Additional	Unit for Zn_conc	CHAR (5)	
55	AL_CONC	Additional	Aluminium concentration	NUM (7,3)	g/kg
56	AL_BDL	Additional	enter **BDL** if Al conc. Is below detection limit or level of determination	CHAR (2)	
57	AL_DL	Additional	Detection limit value	NUM (7,3)	µg/kg
58	AL_UNIT	Additional	Unit for As conc. (indicate g/Kg or the reported unit, eg. %)	CHAR (5)	
55	LI_CONC	Additional	Arsenic concentration	NUM (7,3)	µg/kg
56	LI_BDL	Additional	enter **BDL** if As conc. Is below detection limit or level of determination	CHAR (2)	
57	LI_DL	Additional	Detection limit value	NUM (7,3)	µg/kg
58	LI_UNIT	Additional	Unit for As_conc	CHAR (5)	
59	ANALY_DATE	Mandatory	Elemental composition Analysis Date (dd/mm/yy)	DATE	
60	ANALY_METH	Mandatory	Elemental composition Analysis Method	CHAR (5)	
61	TC	Additional	Total carbon content (unit %)	NUM (2,2)	
62	TOC	Additional	Total organic carbon (unit %)	NUM (2,2)	
63	TIC	Additional	Total inorganic carbon (unit %)	NUM (2,2)	
64	TN	Additional	Total nitrogen content (unit %)	NUM (2,2)	
65	TON	Additional	Total organic nitrogen (unit %)	NUM (2,2)	
66	TIN	Additional	Total inorganic nitrogen (unit %)	NUM (2,2)	
	Other Trace Metals	Additional	to be included by the countries depending on their parameter settings		

TABLE 4. SEDIMENT / ORGANIC CONTAMINANTS DATA REPORTING FORMAT

	Fields	Requisite	Description	Format	Unit
1	SAMPLE_ID	Mandatory	Individual sample code given to each sample by the laboratory		
2	YEAR	Mandatory	Monitoring Year	NUM (4)	
3	COUNTRY	Mandatory	Country Code (MED POL codes)	CHAR (3)	
4	AREA	Mandatory	Area Code	CHAR (6)	
5	STATION	Mandatory	Station Code	CHAR (6)	
6	STATION_TYPE	Mandatory	for Hot Spots (H), Coastal (C), Reference (R)	CHAR (2)	
7	SAMP_NO	Mandatory	Sample no.(1,...) (as used in trend objectives of the programme)	NUM (2)	
8	SAMP_DATE	Mandatory	Date of Sampling (day/mn/yr)	DATE	
9	LON_DEG	Mandatory	Longitude in degrees	NUM (2)	
10	LON_MIN	Mandatory	Longitude minute, seconds (In case of GPS application use this field for minutes and seconds in decimals, otherwise use only for minutes)	NUM (5,2)	
11	LON_SEC	Mandatory	Longitude seconds (Use this field only when GPS is not used for positioning)	NUM (2)	
12	LON_HEMIS	Mandatory	Longitude hemisphere (codes: W=west, E=east)	CHAR (1)	
13	LAT_DEG	Mandatory	Latitude degree	NUM (2)	
14	LAT_MIN	Mandatory	Latitude minute, seconds (In case of GPS application use this field for minutes and seconds in decimals, otherwise use only for minutes)	NUM (5,2)	
15	LAT_SEC	Mandatory	Latitude seconds (Use this field only when GPS is not used for positioning)	NUM (2)	
16	BOT_DEPTH	Mandatory	Bottom depth of the sampling station	NUM (5,1)	m
17	BOT_TEMP	Mandatory	Temperature value at the bottom of the sediment sampling station	NUM (5,2)	Deg C
18	BOT_SALIN	Mandatory	Salinity value at the bottom of the sediment sampling station	NUM (5,2)	
19	BOT_DO	Additional	Dissolved Oxygen value at the bottom of the sampling station	NUM (5,2)	mg/L
20	SAMP_LAYER	Mandatory	Sampling layer to be provided (e.g. 0-2 cm, 1 cm etc.)		cm
21	SAMP_FRAC	Mandatory	Sample size fraction to be provided (e.g. >60 μm etc.)		μm
22	DW / WW	Additional	Ratio of dry weight to wet weight (dried to constant temperature)	NUM (5,2)	
23	INST_CODE_OC	Mandatory	Institute code for organic contaminant analysis (Country code+institute no. given in the MEDPOL Phase III Agreement)	CHAR(5)	
24	WW_DW	Mandatory	Mention if concentrations are based on wet or dry weight (code as "**W**" for wet weight and "**D**" for dry weight	CHAR (1)	
25	ANALY_DATE_PAH	Mandatory	PAH+ Analysis Date (day/mn/yr)	DATE	
26	ANALY_METH_PAH	Mandatory	PAH+ Analysis method (MED POL codes)	CHAR (5)	
27	PAH_CONC	Mandatory	PAH+ concentration	NUM (7,3)	µg/g
28	PAH_BDL	Mandatory	enter BDL if PAH+ conc. is below detection limit or level of determination	CHAR (2)	
29	PAH_DL	Mandatory	Detection limit value	NUM (7,3)	µg/kg
30	PAH_UNIT	Mandatory	Unit for PAH_conc	CHAR (5)	
31	ANALY_DATE_HH	Mandatory	HH+ Analysis Date (day/mn/yr)	DATE	
32	ANALY_METH_HH	Mandatory	HH+ Analysis method (MED POL codes)	CHAR (5)	
33	HH_CONC	Mandatory	HH+ concentration	NUM (7,3)	µg/g
34	HH_BDL	Mandatory	Enter BDL if HH+ conc. is below detection limit or level of determination	CHAR (2)	
35	HH_DL	Mandatory	Detection limit value	NUM (7,3)	µg/g

	Fields	Requisite	Description	Format	Unit
36	HH_UNIT	Mandatory	Unit for HH_conc	CHAR (5)	
59	ANALY_DATE	Additional	Elemental composition Analysis Date (dd/mm/yy)	DATE	
60	ANALY_METH	Additional	Elemental composition Analysis Method	CHAR (5)	
61	TC	Additional	Total carbon content (unit %)	NUM (2,2)	
62	TOC	Additional	Total organic carbon (unit %)	NUM (2,2)	
63	TIC	Additional	Total inorganic carbon (unit %)	NUM (2,2)	
64	TN	Additional	Total nitrogen content (unit %)	NUM (2,2)	
65	TON	Additional	Total organic nitrogen (unit %)	NUM (2,2)	
66	TIN	Additional	Total inorganic nitrogen (unit %)	NUM (2,2)	
	Other Organics	Additional	to be included by the countries depending on their parameter settings		

***NOTE 3: PAH compounds should include the congeners: fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo[a]anthracene, chrysene, benzo[e]pyrene, benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[a]pyrene, benzo[g,h,i]perylene, dibenzo[a,h]anthracene and indeno[1,2,3-c,d]pyrene. Therefore, rows from 27-30 should be duplicated for each individual congener determined.

***NOTE 4: HH compounds should include the following compounds: PCBs (at least congeners 28, 52, 101, 118, 138, 153, 180, 105 and 156); Hexachorobenzene, Lindane, Aldrin, Dieldrin and ΣDDTs). Therefore, rows from 33-36 should be duplicated for each compounds or congener determined within groups.

TABLE 5. BIOEFFECTS DATA REPORTING FORMAT

	Fields	DESCRIPTION	Format	Units
1	SAMPLE_ID	Individual sample code given to each sample by the laboratory		
2	YEAR	Monitoring Year	NUM (4)	
3	COUNTRY	Country Code (existing coding)	CHAR (3)	
4	AREA	Area Code	CHAR (6)	
5	STATION	Station Code	CHAR (6)	
6	STATION_TYPE	for Hot Spots (H), Coastal (C), Reference (R)	CHAR (2)	
7	SAMP_DATE	Date of Sampling (day/mn/yr)	DATE	
8	LON_DEG	Longitude in degrees	NUM (2)	
9	LON_MIN	Longitude minute, seconds (In case of GPS application use this field for minutes and seconds in decimals, otherwise use only for minutes)	NUM (5,2)	
10	LON_SEC	Longitude seconds (Use this field only when GPS is not used for positioning)	NUM (2)	
11	LON_HEMIS	Longitude hemisphere (codes: W=west, E=east)	CHAR (1)	
12	LAT_DEG	Latitude degree	NUM (2)	
13	LAT_MIN	Latitude minute, seconds (In case of GPS application use this field for minutes and seconds in decimals, otherwise use only for minutes)	NUM (5,2)	
14	LAT_SEC	Latitude seconds (Use this field only when GPS is not used for positioning)	NUM (2)	
15	BOT_DEPTH	Bottom depth of the sampling station	NUM (5,1)	m
16	SAMP_DEPTH	Sampling depth	NUM (5,1)	m
17	SAM_TEMP	Temperature at the sampling station and depth	NUM (5,2)	Deg C
18	SAM_SALIN	Salinity at the sampling station and depth	NUM (5,2)	
19	SAM_DO	Dissolved oxygen at the sampling station and depth	NUM (5,2)	mg/L
20	SPECY	Species Name (MEDPOL code list)	CHAR (2)	
21	TISSUE	Selected Tissue (MEDPOL code list)	CHAR (2)	
22	WILD/CAGED	If the selected organism is wild enter *'w'*, if caged use *'c'*	CHAR (1)	
23	CAGE_DUR	Caging duration	NUM (2)	Days
24	INS_CODE_BIOMON	Institute Code for bio-monitoring (Country code+institute no. given in the MEDPOL Phase III Agreement)	CHAR (5)	
25	SAMPLE_NO	Sample no. (1,)	NUM (2)	
26	ANALY_DATE_DNAx	Analysis Date (day/mn/yr)	DATE	
27	ANALY_METH_DNAx	DNAx Analysis Methods (MEDPOL Code list)	CHAR (7)	
28	DNAx_ELUTION RATE_VOL	Fraction of DNA retained / volume	NUM (5,3)	Arbitrary units
29	DNAx_ELUTION RATE_TIME	Fraction of DNA retained / time	NUM (5,3)	Arbitrary units
30	DNAx_SSF	Strand Scission Factor	NUM (5,3)	unitless
31	DNAx_MICRONUCLEI	Micronuclei Frequency	NUM (5,1)	%
32	ANALY_DATE_EROD	Analysis Date (day/mn/yr)	DATE	
33	ANALY_METH_EROD	EROD Analysis Method (MEDPOL code list)	CHAR (7)	
34	EROD_ACT	EROD Activity = pmol resofurin per mg-protein per minute	NUM ( )	
35	ANALY_DATE_LMS	Analysis Date (day/mn/yr)	DATE	

	Fields	DESCRIPTION	Format	Units
36	ANALY_METH_LMS	Methods of LMS Analysis (MEDPOL code list)	CHAR (7)	
37	LMS_LP	The average Labilization Period	NUM (2)	min
38	LMS_NRR	Neutral Red Retention	NUM (2)	min
39	ANALY_DATE_MT	Analysis Date (day/mn/yr)	DATE	
40	ANALY_METH_MT	MT Analysis Method (MEDPOL code list)	CHAR (7)	
41	MT_LEVEL	MT Level in wet Tissue (w/w)	NUM (7,2)	µg/g
	Other Organics	Additional to (be included by the countries depending on their parameter settings)		

TABLE 6. SEAWATER DATA REPORTING FORMAT

	Fields	Requisite	Description	Format	Units
1	SAMPLE_ID	Mandatory	Individual sample code given to each sample by the laboratory		
2	YEAR	Mandatory	Monitoring Year	NUM (4)	
3	COUNTRY	Mandatory	Country Code (MED POL codes)	CHAR (3)	
4	AREA	Mandatory	Area Code (as used in Phase III Agreement)	CHAR (6)	
5	STATION	Mandatory	Station Code (as used in Phase III Agreement)	CHAR (6)	
6	STATION_TYPE	Mandatory	for Hot Spots (H), Coastal (C), Reference (R)	CHAR (2)	
7	SAMP_DATE	Mandatory	Date of Sampling (day/mn/yr)	DATE	
8	SAMP_TIME	Mandatory	Sampling Time	TIME	
9	LON_DEG	Mandatory	Longitude in degrees	NUM (2)	
10	LON_MIN	Mandatory	Longitude minute, seconds (In case of GPS application use this field for minutes and seconds in decimals, otherwise use only for minutes)	NUM (5,2)	
11	LON_SEC	Mandatory	Longitude seconds (Use this field only when GPS is not used for positioning)	NUM (2)	
12	LON_HEMIS	Mandatory	Longitude hemisphere (codes: W=west, E=east)	CHAR(2)	
13	LAT_DEG	Mandatory	Latitude degree	NUM (2)	
14	LAT_MIN	Mandatory	Latitude minute, seconds (In case of GPS application use this field for minutes and seconds in decimals, otherwise use only for minutes)	NUM (5,2)	
15	LAT_SEC	Mandatory	Latitude seconds (Use this field only when GPS is not used for positioning)	NUM (2)	
16	BOT_DEPTH	Mandatory	Bottom depth of the sampling station	NUM (5,1)	m
17	SAMP_DEPTH	Mandatory	Sampling depth	NUM (5,1)	m
18	SAM_TEMP	Mandatory	Temperature at the sampling depth	NUM (5,2)	Deg C
19	SAM_SALIN	Mandatory	Salinity at the sampling depth	NUM (5,2)	
20	SAM_DO	Additional	Dissolved oxygen at the sampling depth	NUM (5,2)	mg/L
21	INST_CODE_SW	Additional	Institude code for analysis of nutrients, chlorophyll-a, TRIX etc (Country code+institute no. given in the MEDPOL Phase III Agreement)	CHAR (5)	
22	PO4-P_CONC	Mandatory	PO4-P concentration	NUM (6,2)	µmol/L
23	PO4-P _BDL	Mandatory	Enter BDL if PO4-P conc. is below detection limit or level of determination	CHAR (2)	
24	PO4-P _DL	Mandatory	Detection limit value	NUM (6,2)	µmol/L
25	PO4-P_UNIT	Mandatory	Unit for PO4-P_conc	CHAR (6)	
26	TP_CONC	Mandatory	Total Phosphorus concentration	NUM (6,2)	µmol/L
27	TP _BDL	Mandatory	Enter BDL if TP conc. is below detection limit or level of determination	CHAR (2)	
28	TP _DL	Mandatory	Detection limit value	NUM (6,2)	µmol/L
29	TP_UNIT		Unit for TP_conc	CHAR (6)	
30	NH4-N_CONC	Mandatory	NH4-N concentration	NUM (6,2)	µmol/L
31	NH4-N _BDL	Mandatory	Enter BDL if NH4-N conc. is below detection limit or level of determination	CHAR (2)	
32	NH4-N _DL	Mandatory	Detection limit value	NUM (6,2)	µmol/L
33	NH4-N_UNIT		Unit for NH4-N_conc	CHAR (6)	
34	NO2-N_CONC	Mandatory	NO2-N concentration	NUM (6,2)	µmol/L

	Fields	Requisite	Description	Format	Units
35	NO2-N _BDL	Mandatory	Enter BDL if NO2-N conc. is below detection limit or level of determination	CHAR (2)	
36	NO2-N _DL	Mandatory	Detection limit value	NUM (6,2)	µmol/L
37	NO2-N_UNIT		Unit for NO2-N_conc	CHAR (6)	
38	NO3-N_CONC	Mandatory	NO3-N concentration	NUM (6,2)	µmol/L
39	NO3-N _BDL	Mandatory	Enter BDL if NO3-N conc. is below detection limit or level of determination	CHAR (2)	
40	NO3-N _DL	Mandatory	Detection limit value	NUM (6,2)	µmol/L
41	NO3-N_UNIT		Unit for NO3-N_conc	CHAR (6)	
42	NO3-2-N_CONC	Mandatory	NO3+NO2-N concentration	NUM (6,2)	µmol/L
43	NO3-2-N_BDL	Mandatory	Enter BDL if NO3-2-N conc. is below detection limit or level of determination	CHAR (2)	
44	NO3-2-N_DL	Mandatory	Detection limit value	NUM (6,2)	µmol/L
45	NO3-2-N_UNIT		Unit for NO3-N_conc	CHAR (6)	
46	TN_CONC	Mandatory	Total Nitrogen concentration	NUM (6,2)	µmol/L
47	TN_BDL	Mandatory	Enter BDL if TN conc. is below detection limit or level of determination	NUM (6,2)	µmol/L
48	TN_DL	Mandatory	Detection limit value	NUM (6,2)	µmol/L
49	TN_UNIT		Unit for TN_conc	CHAR (6)	
50	SIO4_CONC	Mandatory	Silicic acid concentration	NUM (6,2)	µmol/L
51	SIO4_BDL	Mandatory	Enter BDL if SIO4 conc. is below detection limit or level of determination	NUM (6,2)	µmol/L
52	SIO4_DL	Mandatory	Detection limit value	NUM (6,2)	µmol/L
53	SIO4_UNIT		Unit for SIO4_conc	CHAR (6)	
54	CHL-A_CONC	Mandatory	Chlorophyll-a concentration	NUM (6,2)	µg/L
55	CHL-A_BDL	Mandatory	Enter BDL if Chl-a is below detection limit or level of determination	NUM (6,2)	µg/L
56	CHL-A_DL	Mandatory	Detection limit value	NUM (6,2)	µg/L
57	CHL-A_UNIT	Mandatory	Unit for Chl-a_conc	CHAR (6)	
58	TRIX INDEX	Additional	Trophic Index	NUM (5,2)	
	Others		**Other parameters could be included depending on the country agreements.**		

TABLE 7. ATMOSPHERIC DRY DEPOSITION DATA REPORTING FORMAT

	Fields	Requisite	Description	Format	Units
1	SAMPLE_ID	Mandatroy	Individual sample code given to each sample by the laboratory		
2	YEAR	Mandatory	Monitoring Year	NUM (4)	
3	COUNTRY	Mandatory	Country Code (MED POL codes)	CHAR (3)	
4	AREA	Mandatory	Area Code (as used in Phase III Agreement)	CHAR (6)	
5	STATION	Mandatory	Station Code (as used in Phase III Agreement)	CHAR (6)	
6	STATION_ID	Mandatory	Station identity ('R' for reference and 'I' for Impact=hot spot)	CHAR (1)	
7	HEIGHT	Mandatory	Height of station from the ground	NUM (5,1)	m
8	ALTITUDE	Mandatory	Altitude/Elevation of st. ground level above sea level	NUM (6,1)	m
9	DISTANCE_SHORE	Mandatory	Distance of atmospheric station to shore	NUM (7,1)	m
10	METEO_DIST	Mandatory	Distance to nearest meteorological station	NUM (7,1)	m
11	LAT_DEG	Mandatory	Latitude degree	NUM (2)	
12	LAT_MIN	Mandatory	Latitude minute	NUM (5,2)	
13	LAT_SEC	Mandatory	Latitude seconds	NUM (2)	
14	LON_DEG	Mandatory	Longitude in degrees	NUM (2)	
15	LON_MIN	Mandatory	Longitude minute	NUM (5,2)	
16	LON_SEC	Mandatory	Longitude seconds	NUM (2)	
17	LON_HEMIS	Mandatory	Longitude hemisphere (codes: W=west, E=east)	CHAR(2)	
18	SAMP_START_DATE	Mandatory	Start Date of Sampling (day/mn/yr)	DATE	
19	SAMP_START_HOUR	Mandatory	Start Hour of Sampling	NUM (2)	
20	SAMP_END_DATE	Mandatory	End Date of Sampling (day/mn/yr)	DATE	
21	SAMP_END_HOUR	Mandatory	End Hour of Sampling	NUM (2)	
22	SAMP_TIME-TOT	Mandatory	Total Sampling Hours	NUM (2)	
23	AIR_VOLUME	Mandatory	Total Air volume filtered during the total sampling time	NUM (7,2)	m3
24	SAMP_INST_CODE	Mandatory	Sampling Institute Code	NUM (9)	
25	INST_CODE_DUST		Institude code for dust analysis	CHAR(9)	
26	ANALY_DATE_DUST		Dust Analysis Date (day/mn/yr)	DATE	
27	ANALY_METH_DUST		Dust Analysis method	CHAR (5)	
28	DUST_CONC		Dust Concentration	NUM ( )	
29	DUST_UNIT		Unit for dust_conc	CHAR (5)	
30	INST_CODE_TM	Mandatory	Trace Metal Institude code	CHAR(9)	
31	ANALY_DATE_TM	Mandatory	TM Analysis Date (day/mn/yr)	DATE	
32	ANALY_METH_TM	Mandatory	TM Analysis	CHAR (5)	
33	CD_CONC		Cadmium concentration	NUM (7,3)	
34	CD_BDL		enter BDL if Cd conc. is below detection limit or level of determination	CHAR (2)	
35	CD_DL		Detection limit value	NUM (7,3)	µg/kg
36	CD_UNIT		Unit for Cd_conc	CHAR (5)	
	Other Trace Metals	As specified in the programme			
	Organic contaminants	As specified in the programme			

TABLE 8. ATMOSPHERIC WET DEPOSITION DATA REPORTING FORMAT

	Fields	Requisite	Description	Format	Units
1	SAMPLE_ID	Mandatroy	Individual sample code given to each sample by the laboratory		
2	YEAR	Mandatory	Monitoring Year	NUM (4)	
3	COUNTRY	Mandatory	Country Code (MED POL codes)	CHAR (3)	
4	AREA	Mandatory	Area Code (as used in Phase III Agreement)	CHAR (6)	
5	STATION	Mandatory	Station Code (as used in Phase III Agreement)	CHAR (6)	
6	STATION_ID	Mandatory	Station identity ('R' for reference and 'I' for Impact=hot spot)	CHAR (1)	
7	HEIGHT	Mandatory	Height of station from the ground	NUM (5,1)	m
8	ALTITUDE	Mandatory	Altitude/Elevation of station ground level above sea level	NUM (6,1)	m
9	DISTANCE_SHORE	Mandatory	Distance of atmospheric station to shore	NUM (7,1)	m
10	METEO_DIST		Distance to nearest meteorological station	NUM (7,1)	m
11	LAT_DEG	Mandatory	Latitude degree	NUM (2)	
12	LAT_MIN	Mandatory	Latitude minute	NUM (5,2)	
13	LAT_SEC	Mandatory	Latitude seconds	NUM (2)	
14	LON_DEG	Mandatory	Longitude in degrees	NUM (2)	
15	LON_MIN	Mandatory	Longitude minute	NUM (5,2)	
17	LON_SEC	Mandatory	Longitude seconds	NUM (2)	
16	LON_HEMIS	Mandatory	Longitude hemisphere (codes: W=west, E=east)	CHAR(2)	
17	SAMP_START_DATE		Start Date of Sampling (day/mn/yr)	DATE	
18	SAMP_START_HOUR		Start Hour of Sampling	NUM (2)	
19	SAMP_END_DATE		End Date of Sampling (day/mn/yr)	DATE	
20	SAMP_END_HOUR		End Hour of Sampling	NUM (2)	
21	SAMP_TIME-TOT		Total Sampling Hours	NUM (2)	
22	PRECIPITATION_NG		Precipitation (National gauge)	NUM (5)	mm
23	SAMP_INST_CODE		Sampling Institute Code	NUM (9)	
24	INST_CODE_TM		Trace Metal Institude code	CHAR(9)	
25	ANALY_DATE_TM		TM Analysis Date (day/mn/yr)	DATE	
26	ANALY_METH_TM		TM Analysis method	CHAR (5)	
27	**CD_CONC**		Cadmium concentration	NUM (7,3)	µg/kg
28	**CD_BDL**		enter BDL if Cd conc. is below detection limit or level of determination	CHAR (2)	
29	**CD_DL**		Detection limit value	NUM (7,3)	µg/kg
30	**CD_UNIT**		Unit for Cd_conc	CHAR (5)	
	Other Trace Metals				
	Other fields		organic contaminants		

TABLE 9. CERTIFIED REFERENCE MATERIAL (CRM) / QUALITY CONTROL DATA REPORTING FORMAT

	Fields	Description	Format	Units
1	SAMPLE_ID (linked to CRM)	Individual sample code given to each sample linked to the following CRM information (by rows)		
2	YEAR	Monitoring Year	NUM (4)	
3	COUNTRY	Country Code	CHAR (3)	
BLOCK 1: TRACE METALS QUALITY CONTROL RESULTS IN BIOTA SAMPLES				
4	**INST_CODE_TM_BIO**	**Institude code for trace metal analysis in biota**	**CHAR (5)**	
5	CRM_BIO_TM_CD	Name of the certified reference material used for Cadmium analysis in biota (will be coded)	CHAR (10)	
6	CRM_BIO_CD_VALUE	The expected concentration value for Cd in CRM	NUM (7,3)	µg/kg
7	CRM_BIO_CD_SAMPLE NO	Number of sample (1,n**)	NUM (2)	
8	CRM_BIO_CD_CONC	Concentration of cadmium measured in each CRM sample (1,n) * Pls don't submit average values	NUM (7,3)	µg/kg
9	CRM_BIO_CD_UNIT	Unit for both expected and measured Cd_conc in CRM	CHAR (5)	
10	ANALY_DATE_CD_BIO	Cd Analysis Date (day/mn/yr)	DATE	
11	ANALY_METH_CD_BIO	Cd Analysis method (MED POL codes)	CHAR (5)	
12	CRM_BIO_TM_xxx	Name of the certified reference material used for total Mercury analysis in biota (will be coded)	CHAR (10)	
13	CRM_BIO_xxx_VALUE	The expected concentration value for total Hg in CRM	NUM (7,3)	µg/kg
14	CRM_BIO_xxx_SAMPLE NO	Number of sample (1,n**)	NUM (2)	
15	CRM_BIO_xxx_CONC	Concentration of total mercury in each CRM sample (1,n) * Pls don't submit average values	NUM (7,3)	µg/kg
16	CRM_BIO_xxx_UNIT	Unit for both expected and measured HgT_conc in CRM	CHAR (5)	
17	ANALY_DATE_xxx_BIO	Hgt Analysis Date (day/mn/yr)	DATE	
18	ANALY_METH_xxx_BIO	Hgt Analysis method (MEDPOL codes)	CHAR (5)	
BLOCK 2: TRACE METALS QUALITY CONTROL RESULTS IN SEDIMENT SAMPLES				
19	**INST_CODE_TM_SED**	**Institude code for trace metal analysis in sediment** (Country code+institute no. given in the MEDPOL Phase III Agreement)	**CHAR (5)**	
20	CRM_SED_TM_CD	Name of the certified reference material used for Cadmium analysis in sediment (will be coded)	CHAR (10)	
21	CRM_SED_CD_VALUE	The expected concentration value for Cd in CRM	NUM (7,3)	µg/kg
22	CRM_SED_CD_SAMPLE NO	Number of sample (1,n**)	NUM (2)	
23	CRM_SED_CD_CONC	Concentration of Cd in each CRM sample (1n) * Pls don't submit average values	NUM (7,3)	µg/kg
24	CRM_SED_CD_UNIT	Unit for both expected and measured Cd_conc in CRM	CHAR (5)	
25	ANALY_DATE_CD_SED	Cd Analysis Date (day/mn/yr)	DATE	
26	ANALY_METH_CD_SED	Cd Analysis method (MED POL codes)	CHAR (5)	
27	CRM_SED_TM_xxx	Name of the certified reference material used for t- Mercury analysis in sediment (will be coded)	CHAR (10)	
28	CRM_SED_xxx_VALUE	The expected concentration value for total Hg in CRM	NUM (7,3)	µg/kg
29	CRM_SED_xxx_SAMPLE NO	Number of sample (1,n)	NUM (2)	
30	CRM_SED_xxx_CONC	Concentration of xxx in each CRM sample (1,n) * Pls don't submit average values	NUM (7,3)	µg/kg
31	CRM_SED_xxx_UNIT	Unit for both expected and measured HgT_conc in CRM	CHAR (5)	
32	ANALY_DATE_xxx_SED	Hgt Analysis Date (day/mn/yr)	DATE	

	Fields	Description	Format	Units
33	ANALY_METH_xxx_SED	Hgt Analysis method (MED POL codes)	CHAR (5)	
BLOCK 3: ORGANIC COMPOUNDS QUALITY CONTROL IN BIOTSAMPLES				
34	INST_CODE_OC_BIO	Institude code for organic contaminants analysis in biota (Country code+institute no. given in the MEDPOL Phase III Agreement)	CHAR (5)	
35	CRM_BIO_HH	Name of the certified reference material for halogenated hydrocarbons in biota (will be coded)	CHAR (10)	
36	CRM_BIO_HH_VALUE	Expected concentration value of HH+ compound in CRM	NUM (7,3)	µg/kg
37	CRM_BIO_HH_SAMPLE NO	Number of sample (1,n**)	NUM (2)	
38	CRM_BIO_HH_CONC	Concentration of HH+ in each CRM sample (1,n) * Pls don't submit average values	NUM (7,3)	µg/kg
39	CRM_BIO_HH_UNIT	Unit for both expected and measured HH_conc in CRM	CHAR (5)	
40	ANALY_DATE_HH_BIO	HH+ Analysis Date (day/mn/yr)	DATE	
41	ANALY_METH_HH_BIO	HH+ Analysis method (MED POL codes)	CHAR (5)	
42	CRM_BIO_OC_PAH	Name of the certified reference material for PAH in biota (will be coded)	CHAR (10)	
43	CRM_BIO_PAH_VALUE	Expected concentration value of PAH in CRM	NUM (7,3)	µg/kg
44	CRM_BIO_PAH_SAMPLE NO	Number of sample (1,n**)	NUM (2)	
45	CRM_BIO_PAH_CONC	Concentration of PAH in each CRM sample (1,n) * Pls don't submit average values	NUM (7,3)	µg/kg
46	CRM_BIO_PAH_UNIT	Unit for both expected and measured PAH_conc in CRM	CHAR (5)	
47	ANALY_DATE_PAH_BIO	PAH Analysis Date (day/mn/yr)	DATE	
48	ANALY_METH_PAH_BIO	PAH Analysis method (MED POL codes)	CHAR (5)	
BLOCK 4: ORGANIC COMPOUNDS QUALITY CONTROL RESULTS IN SEDIMENT SAMPLES				
49	INST_CODE_OC_SED	Institude code for organic contaminant analysis in sediments (Country code+institute no. given in the MEDPOL Phase III Agreement)	CHAR (5)	
50	CRM_SED_HH	Name of the certified reference material used for the analysis of halogenated hydrocarbons in sediment (will be coded)	CHAR (10)	
51	CRM_SED_HH_VALUE	Expected concentration value of HH+ compound in CRM	NUM (7,3)	µg/kg
52	CRM_SED_HH_SAMPLE NO	Number of sample (1,n**)	NUM (2)	
53	CRM_SED_HH_CONC	Concentration of HH+ of each sample (1,n) * Pls don't submit average values	NUM (7,3)	µg/kg
54	CRM_SED_HH_UNIT	Unit for both expected and measured HH_conc in CRM		
55	ANALY_DATE_HH_SED	HH+ Analysis Date (day/mn/yr)	DATE	
56	ANALY_METH_HH_SED	HH+ Analysis method (MED POL codes)	CHAR (5)	
57	CRM_SED_PAH	Name of the certified reference material used for PAH analysis in sediment (will be coded)	CHAR (10)	
58	CRM_SED_PAH_VALUE	Expected concentration value of PAH in CRM	NUM (7,3)	µg/kg
59	CRM_SED_PAH_SAMPLE NO	Number of sample (1,n**)	NUM (2)	
60	CRM_SED_PAH_CONC	Concentration of PAH of each sample (1,n) * Pls don't submit average values	NUM (7,3)	µg/kg
61	CRM_SED_PAH_UNIT	Unit for both expected and measured PAH_conc in CRM	CHAR (5)	
62	ANALY_DATE_PAH_SED	PAH Analysis Date (day/mn/yr)	DATE	
63	ANALY_METH_PAH_SED	PAH Analysis method (MED POL codes)	CHAR (5)	

Annex IIa
MEDPOL Marine Litter Beach ID Form

Mediterranean Action Plan
Barcelona Convention

MEDPOL Marine Litter Beach ID Form

Name of the beach:			
National beach ID:			
Contracting Party:			
①Beach width at mean low spring tide (m):		②Beach width at mean high spring tide (m):	
③Total length of beach (m)		④Back of the beach (example dunes):	
⑤GPS coordinates start 100 m *(wgs84 – dd mm ss.ss)*		⑥GPS coordinates end 100 m *(wgs84 – dd mm ss.ss)*	
⑤GPS coordinates start 100 m (IF REPLICATE) *(wgs84 – dd mm ss.ss)*		⑥GPS coordinates end 100 m (IF REPLICATE) *(wgs84 – dd mm ss.ss)*	
Prevailing currents off the beach:	N E S W	Prevailing winds:	N E S W
When you look from the beach to the sea, what direction is the beach facing?:			N E S W
Type of beach material (% coverage): *(e.g. sand 60%, pebbles 40%)*			
Beach topography: *(e.g. slope 20%)*			
Are there any objects in the sea (e.g. a pier) that influence the currents *(If YES, specify)*			
Major beach usage (local people, swimming and sunbathing, fishing, surfing, sailing etc): 1. seasonal or whole year round: 2. seasonal or whole year round: 3. seasonal or whole year round:			
Access to the beach: Pedestrian ☐ Vehicle ☐ Boats ☐			
Nearest town: Name: Distance to the beach: Population:			

Is there any development behind the beach?:	No	Yes, please describe:
Are there food and/or drink outlets on the beach?:	No	Yes
Distance from the survey area (m):		
Present all year round:	Yes	No, please specify in month:
Position of food and/or drink outlet in relation to the survey area:		N E S W
Distance from the beach to the nearest shipping lane (km):		
What is the estimated traffic density: *(number of ships/year):*		
Is it used mainly by merchant ships, fishing vessels or all kinds:		
Position of shipping lane in relation to survey area:		N E S W
Distance from the beach to the nearest harbour (km):		
Name of the harbour:		
Is the harbour entrance facing the survey area?:		Yes No
Position of harbour in relation to survey area:		N E S W
Type of harbour:		
Size of harbour (number of ships):		

Distance from the beach to the nearest river mouth (km):				
Name of the river:				
What is the position of river mouth in relation to survey area:				N E S W
Distance from the beach to the nearest discharge or discharges of waste water (km): Position of discharge points in relation to survey area:				N E S W
How often is the beach cleaned:				
All year round:	Daily ☐	Weekly ☐	Monthly ☐	Other:
Seasonal, *please specify in months:*	Daily ☐	Weekly ☐	Monthly ☐	Other:
What method is used:	Manual ☐	Mechanical ☐		
Who is responsible for the cleaning:				

Additional comments and observations about this beach:
Please include: 1. A map of the beach 2. A map of the beach and the local surroundings. When relevant please mark on this map the following: Nearest town — Food/drink outlets — Nearest shipping lane Nearest harbour — Nearest river mouth — Discharge or discharges of waste water 3. A regional map
Is this an amendment to an existing questionnaire: Yes No Date questionnaire is filled in: / / (d/m/y) Name: Phone number: E-mail:

Annex IIb
MEDPOL Beach Litter Survey Form

Mediterranean Action Plan
Barcelona Convention

MEDPOL Beach Litter Survey Form

Name of the beach:	
National beach ID:	
Contracting Party:	
Date of survey *(dd/mm/yy)*	
Number of surveyors:	
Responsible of this survey:	Name: Phone number: Email address:
Previous conducted survey *(dd/mm/yy)*	

Additional Information	
Did you divert from the predetermined 100 metres:	No Yes, please specify new GPS coordinates

Did any of the following weather conditions affect the data of the survey:

Wind ☐ Rain ☐ Sand storm ☐ Fog ☐

Snow ☐ Exceptionally high tide ☐

Did you find stranded or dead animals?

Yes ☐ No ☐ If so how many:

Describe the animals, or note the species name if known:

Stranded animals Dead ☐ Alive ☐

Is the animal entangled in litter? Yes ☐ No ☐ If so, specify litter item

Were there any circumstances that influenced the survey? For example tracks on the beach (cleaning or other), recent replenishment of the beach or other.
Please specify:

Were there any unusual marine litter items and/or marine litter loads?
Please specify:

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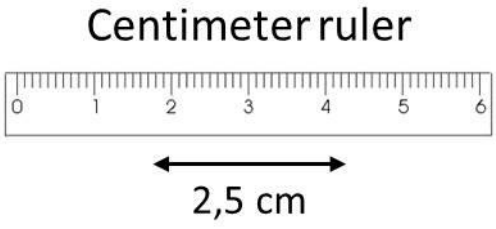
MEDPOL Beach Litter Survey Form

ID (See note)	PLASTIC/POLYSTYRENE	Nº units
G1	4/6-pack yokes, six-pack rings	
G3	Shopping bags incl. pieces	
G4	Small plastic bags, e.g. freezer bags incl. pieces	
G5	Plastic bag collective role; what remains from rip-off plastic bags	
G7/G8	Drink bottles	
G9	Cleaner bottles & containers	
G10	Food containers incl. fast food containers	
G11	Beach use related cosmetic bottles and containers, e.g. Sunblocks	
G14	Engine oil bottles & containers <50 cm	
G15	Engine oil bottles & containers >50 cm	
G16	Jerry cans (square plastic containers with handle)	
G17	Injection gun containers (including nozzles)	
G13	Other bottles & containers	
G18	Crates and containers / baskets	
G19	Car parts	
G21/24	Plastic caps and lids (including rings from bottle caps/lids)	
G26	Cigarette lighters	
G28	Pens and pen lids	
G29	Combs/hair brushes/sunglasses	
G30/31	Crisps packets/sweets wrappers/ Lolly sticks	
G32	Toys and party poppers	
G33	Cups and cup lids	
G34/35	Cutlery and trays/Straws and stirrers	
G36	Fertiliser/animal feed bags	
G37	Mesh vegetable bags	
G40	Gloves (washing up)	
G41	Gloves (industrial/professional rubber gloves)	
G42	Crab/lobster pots and tops	
G43	Tags (fishing and industry)	
G44	Octopus pots	

G45	Mussels nets, Oyster nets including plastic stoppers	
G46	Oyster trays (round from oyster cultures)	
G47	Plastic sheeting from mussel culture (Tahitians)	
G49	Rope (diameter more than 1cm)	
G50	String and cord (diameter less than 1 cm)	
G53	Nets and pieces of net < 50 cm	
G54	Nets and pieces of net > 50 cm	
G56	Tangled nets/cord	
G57/58	Fish boxes - plastic or polystyrene	
G59	Fishing line/monofilament (angling)	
G60	Light sticks (tubes with fluid) incl. Packaging	
G62/63	Floats for fishing nets/ Buoys	
G65	Buckets	
G66	Strapping bands	
G67	Sheets, industrial packaging, plastic sheeting	
G68	Fibre glass/fragments	
G69	Hard hats/Helmets	
G70	Shotgun cartridges	
G71	Shoes/sandals	
G73	Foam sponge	
G75	Plastic/polystyrene pieces 0 - 2.5 cm	
G76	Plastic/polystyrene pieces 2.5 cm - 50 cm	
G77	Plastic/polystyrene pieces > 50 cm	
G91	Biomass holder from sewage treatment plants	
G124	Other plastic/polystyrene items (identifiable) including fragments	
Please specify the items included in G124		



Note: The allocated codes may be revised in the near future.

ID	RUBBER	Nº units
G125	Balloons and balloon sticks	
G127	Rubber boots	
G128	Tyres and belts	
G134	Other rubber pieces	
Please specify the items included in G134		
ID	**CLOTH**	Nº units
G137	Clothing / rags (clothing, hats, towels)	
G138	Shoes and sandals (e.g. Leather, cloth)	
G141	Carpet & Furnishing	
G140	Sacking (hessian)	
G145	Other textiles (incl. rags)	
Please specify the items included in G145		
ID	**PAPER / CARDBOARD**	Nº units
G147	Paper bags	
G148	Cardboard (boxes & fragments)	
G150	Cartons/Tetrapack Milk	
G151	Cartons/Tetrapack (others)	
G152	Cigarette packets	
G27	Cigarette butts and filters	
G153	Cups, food trays, food wrappers, drink containers	
G154	Newspapers & magazines	
G158	Other paper items, including fragments	
Please specify the items included in G158		
ID	**PROCESSED / WORKED WOOD**	Nº units
G159	Corks	
G160/161	Pallets / Processed timber	
G162	Crates	
G163	Crab/lobster pots	
G164	Fish boxes	
G165	Ice-cream sticks, chip forks, chopsticks, toothpicks	
G166	Paint brushes	
G171	Other wood < 50 cm	
Please specify the items included in G171		
G172	Other wood > 50 cm	
Please specify the items included in G172		

ID	METAL	Nº units
G174	Aerosol/Spray cans industry	
G175	Cans (beverage)	
G176	Cans (food)	
G177	Foil wrappers, aluminium foil	
G178	Bottle caps, lids & pull tabs	
G179	Disposable BBQ's	
G180	Appliances (refrigerators, washers, etc.)	
G182	Fishing related (weights, sinkers, lures, hooks)	
G184	Lobster/crab pots	
G186	Industrial scrap	
G187	Drums, e.g. oil	
G190	Paint tins	
G191	Wire, wire mesh, barbed wire	
G198	Other metal pieces < 50 cm	
Please specify the items included in G198		
G199	Other metal pieces > 50 cm	
Please specify the items included in G199		

ID	GLASS	Nº units
G200	Bottles incl. pieces	
G202	Light bulbs	
G208	Glass fragments >2.5cm	
G210a	Other glass items	
Please specify the items included in G210a		

ID	CERAMICS	Nº units
G204	Construction material (brick, cement, pipes)	
G207	Octopus pots	
G208	Ceramic fragments >2.5cm	
G210b	Other ceramics items	
Please specify the items included in G210b		

ID	SANITARY WASTE	Nº units
G95	Cotton bud sticks	
G96	Sanitary towels/panty liners/backing strips	
G97	Toilet fresheners	
G98	Diapers/nappies	

G133	Condoms (incl. packaging)	
G144	Tampons and tampon applicators	
--	Other sanitary waste	
Please specify the other sanitary items		
ID	**MEDICAL WASTE**	Nº units
G99	Syringes/needles	
G100	Medical/Pharmaceuticals containers/tubes	
G211	Other medical items (swabs, bandaging, adhesive plaster etc.)	
Please specify the items included in G211		
ID	**FAECES**	Nº units
G101	Dog faeces bag	
ID	**PARAFFIN/WAX PIECES**	Nº units
G213	Paraffin/Wax	
Presence of industrial pellets?	☐ YES ☐ NO	
Presence of oil tars?	☐ YES ☐ NO	
ADDITIONAL COMMENTS:		

Annex III
MEDPOL Working Sheet -- Sea floor Litter

Mediterranean Action Plan
Barcelona Convention

MEDPOL WORKING SHEET FOR SEAFLOOR MARINE LITTER

Country :	
Date (dd/mm/yy) :	
Surveyor information : **(name, phone, e-mail, etc.)**	
Area (EcAp Code) :	
Campaign name :	
Vessel name :	
Haul number :	
Gear (e.g. bottom trawl, etc.) :	
Speed (knot) :	
Opening of the net (m) : **(e.g. SCANMAR Trawl Sensor or SIMRAD)**	
Cod-end mesh size (mm) :	
Latitude (Start and End) :	
Longitude (Start and End) :	
Depth (Start and End) :	
Haul duration (minutes) :	
Distance covered (km) :	

LITTER_CATEGORY	Number	Weight	OBSERVATIONS
L0 No litter			
L1a. Plastic Bags			
L1b. Plastic Bottles			
L1c. Plastic Food wrappers			
L1d. Plastic sheets			
L1e. Hard plastic objects			
L1f. Fishing nets (polymers)			
L1g. Fishing lines (polymers)			
L1h. Other synthetic fishing related			
L1i. Synthetic ropes/strapping bands L1j Others plastic			
L1 TOTAL PLASTIC			
L2a. Tyres			
L2b. Other rubber (gloves, floats, etc.)			
L2 TOTAL RUBBER			
L3a. Beverage cans (metal)			
L3b. Other food cans/wrappers			
L3c. Middle size containers (paint, etc.)			
L3d. Large metalic objects			
L3e. Cables			
L3f. Fishing related (hooks, spears, etc.) L3g. remnant from the war			
L3 TOTAL METAL			
L4a. Glass/ceramic Bottles L4b. Pieces of glass L4c. Ceramic jars			

L4d. Large objects			
L4 TOTAL GLASS/ CERAMIC			
L5a. Clothing (other than polymers) L5b. Large pieces (carpets, etc.) L5c. Natural fishing ropes L5d. Sanitaries (non polymers)			
L5 TOTAL TEXTILS / NATURAL FIBERS			
L6 TOTAL Wood processed			
L7 TOTAL Paper and cardboard			
L8 TOTAL Other			
L9 TOTAL UNSPECIFIED			
TOTAL LITTER			
TOTAL FISHING GEARS (L1 f to i; L3f, L5c)			
START POSITIONS :			
END POSITIONS			