Table 4.11a) Annual estimates of Direct[1] UK Inputs to coastal waters around the UK: 1990-2000

		1990		1991		1992		1993		1994		1995		1996		1997		1998		1999		2000	
		Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper
Metals		(tonnes)																					
Cadmium	Cd	29.6	33.8	13.3	15.3	12.8	14.9	9.4	11.6	6.1	7.9	6.1	7.8	7.3	8.3	5.8	7.0	3.9	4.9	4.4	5.3	2.4	3.3
Mercury	Hg	3.7	4.3	3.3	3.5	2	2.3	1.1	1.3	0.9	1.1	0.6	0.8	0.5	0.7	0.5	0.6	0.6	0.8	0.6	0.7	0.5	0.7
Copper	Cu	290	310	270	279	246	252	208	215	213	220	229	235	157	161	156	163	150	152	153	155	140	143
Lead	Pb	120	170	134	148	125	141	129	144	113	128	106	115	101	106	93	98	109	113	86.4	90.2	76.7	80.1
Zinc	Zn	1,700	1,700	1,670	1,680	1,350	1,360	1,150	1,150	1,150	1,150	997	1,000	755	756	634	635	543	544	584	585	525	526
Nutrients		(000 tonnes)																					
Orthophosphates	PO_4-P	21	22	22	22	20.7	20.8	14.1	14.2	15.3	15.3	14.5	14.6	14.8	14.8	15.5	15.5	14.0	14.0	14.4	14.5	13.8	13.8
Total nitrogen		115	115	95	96	104	105	92	93	84	84	81.9	81.9	75.6	75.8	79.0	79.3	81.9	82.0	75.4	75.8	72.6	72.6
Nitrogen from ammonium	NH_4-N					73	73	64	64	61	61	55.8	55.8	51.7	51.7	52.0	52.1	55.5	55.6	50.0	50.3	41.2	41.4
Organic substances		(kg)																					
Lindane		191	224	140	186	144	179	142	156	108	150	121	154	82.3	95.0	176	197	64.2	131	50.8	79.9	33.0	60.0
PCBs		79	310	223	424	138	459	27	162	11	185	7.5	168	33.8	278	3.2	175	379	490	77.6	162	8.0	125
Other		(000 tonnes)																					
Suspended particulate matter		1260	1260	1210	1210	960	960	640	640	630	630	662	663	546	546	570	570	560	561	618	618	402	402

Table 4.11b) Annual estimates of Riverine UK Inputs to coastal waters around the UK: 1992-2000

		1990		1991		1992		1993		1994		1995		1996		1997		1998		1999		2000	
		Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper
Metals		(tonnes)																					
Cadmium	Cd	9.4	9.4	21.6	48.1	11.3	30.4	9.5	28.1	8.7	28.8	6.2	22.9	4.2	18.3	6.0	12.6	9.1	17.5	8.8	17.5	9.1	22.5
Mercury	Hg	2.2	7.6	2.0	7.1	1.7	6.1	3.1	7.6	1.5	6.2	1.4	5.3	1.4	3.9	2.5	4.2	2.9	5.2	1.7	3.6	2.5	4.3
Copper	Cu	470	530	342	432	455	477	454	489	466	500	390	411	292	308	332	334	506	508	503	509	519	529
Lead	Pb	400	496	376	507	340	398	466	524	383	430	266	304	187	224	275	291	483	493	448	468	516	538
Zinc	Zn	2,100	2,200	1,920	2,120	2,490	2,510	2,020	2,050	2,190	2,310	1,730	1,810	1,340	1,350	1,520	1,540	2,110	2,120	2,000	2,020	2,520	2,550
Nutrients		(000 tonnes)																					
Orthophosphates	PO4-P					15.9	16.2	15.6	15.9	16.6	17.1	16.8	17.1	15.4	15.7	15.2	16.2	24.0	24.3	21.2	21.9	21.6	21.9
Total nitrogen						280	287	270	280	298	298	283	284	229	230	217	218	336	340	315	316	359	359
Nitrogen from ammonium	NH4-N					19	19	17	17	18	18	19.3	19.5	15.6	16.0	15.6	15.9	15.0	15.6	13.6	14.4	14.2	14.8
Organic substances		(kg)																					
Lindane						229	510	332	572	254	486	241	454	173	275	116	222	149	460	102	414	112	395
PCBs						34	970	110	2,540	11	1,930	0.3	1700	39.1	1,130	100.0	527	33.9	1,280	4.4	1,430	51.0	1,520
Other		(000 tonnes)																					
Suspended particulate matter						2,120	2,130	2,220	2,230	2,625	2,635	1,800	1,820	1,210	1,240	1,730	1,770	2,650	2,710	3,270	3,290	2,950	2,980
Riverine flow rate		(Ml/day)																					
					251,000		290,000		279,000		305,000		261,000		223,000		237,000		314,000		309,000		365,000

Table 4.11c) Annual estimates of Total UK Inputs (Direct[1] plus Riverine) to coastal waters around the UK: 1992-2000

		1990		1991		1992		1993		1994		1995		1996		1997		1998		1999		2000	
		Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper
Metals		(tonnes)																					
Cadmium	Cd	39.0	63.6	34.9	63.4	24.1	45.3	18.9	39.7	14.8	36.7	12.2	30.7	11.5	26.6	11.7	19.6	12.9	22.5	13.2	22.8	11.5	25.4
Mercury	Hg	5.9	11.8	5.3	10.6	3.7	8.4	4.2	8.9	2.3	7.3	2.0	6.1	2.0	4.6	3.0	4.8	3.5	6.0	2.3	4.3	3.0	5.0
Copper	Cu	760	850	612	711	701	729	662	704	679	720	619	645	449	469	488	497	656	660	656	664	660	672
Lead	Pb	520	667	510	655	465	539	595	667	496	558	372	419	288	330	368	389	593	606	534	558	593	593
Zinc	Zn	3,800	3,920	3,590	3,800	3,840	3,870	3,166	3,203	3,338	3,462	2,730	2,810	2,090	2,110	2,160	2,180	2,650	2,660	2,580	2,610	2,050	3,080
Nutrients		(000 tonnes)																					
Orthophosphates	PO4-P	37.0	38.0	36.0	36.0	36.6	37.0	29.7	30.0	31.8	32.4	31.2	31.7	30.3	30.5	30.6	31.7	37.9	38.2	35.6	36.4	35.3	35.7
Total nitrogen		315	315	326	326	384	393	362	374	382	382	364	366	304	306	296	297	418	422	391	392	432	432
Nitrogen from ammonium	NH4-N					92.0	92.0	82.0	82.0	78.0	79.0	76.0	76.0	67.0	68.0	68.0	68.0	71.0	73.0	63.7	64.7	55.4	56.2
Organic substances		(kg)																					
Lindane		410	780	605	910	373	689	475	729	362	636	362	608	255	370	292	419	213	591	153	494	145	455
PCBs		150	4,200	236	2,140	172	1,420	137	2,700	22	2,110	8	1,870	73	1,400	103	705	413	1,760	82	1,590	59	1,640
Other		(000 tonnes)																					
Suspended particulate matter		2,900	2,900	2,570	2,630	3,080	3,090	2,860	2,870	3,250	3,260	2,470	2,480	1,750	1,790	2,300	2,340	3,220	3,270	3,890	3,910	3,350	3,380
Riverine flow rate		(Ml/day)																					
					251,000		290,000		279,000		305,000		261,000		223,000		237,000		314,000		309,000		365,000

Source: Department for Environment, Food and Rural Affairs

[1] From land-based sources.

Source publication: Digest of Environmental Statistics, Published March 2002
Department for Environment, Food and Rural Affairs
http://www.defra.gov.uk/environment/statistics/des/index.htm